

April 9, 2010

BN015317.0019

Robert W. Hare, P.E., CHMM
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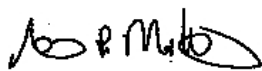
Subject: Phase I Environmental Site Assessment
MLC ID 1196
Pontiac Assembly
2100 S. Opdyke Road
Pontiac, Michigan 48341

Dear Mr. Hare:

Attached is the Phase I Environmental Site Assessment (ESA) report for the above-referenced property. The conclusions presented in this report are based on the results of a reconnaissance-level site visit conducted by ARCADIS U.S., Inc. (ARCADIS) personnel and a review of available and pertinent background information.

ARCADIS appreciates this opportunity to provide our environmental consulting services to you. If you have any questions concerning this project, please contact me at (781) 356-7300.

Sincerely,



Stephen P. McCarthy
Principal Scientist

Attachments



Phase I Environmental Site Assessment

MLC ID 1196

Pontiac Assembly

2100 S. Opdyke Road

Pontiac, Michigan 48341

April 9, 2010

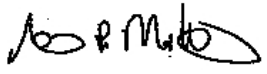
ARCADIS Project No. BN015317.0019

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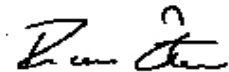
The environmental assessment described herein was conducted by the undersigned, of ARCADIS U.S., Inc. (ARCADIS). ARCADIS' investigation consisted solely of the activities described in the Introduction of this report, in accordance with ARCADIS Proposal No. P10-05008-09-718, and is subject to the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment.

Report Prepared By:

 For

Natalie Gillman
Environmental Scientist I

Report Reviewed By:



Richard G. Stromberg, CPG, LSP
Principal Geologist

EXECUTIVE SUMMARY

ARCADIS U.S., Inc. (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the property located at 2100 S. Opdyke, Pontiac, Oakland County, Michigan (the Site). The purpose of the Phase I ESA was to identify, to the extent feasible pursuant to the processes prescribed in the American Society for Testing and Materials (ASTM) document E 1527-05, recognized environmental conditions (RECs) in connection with the Site.

The Site currently consists of a 3.4 million-square foot building, a wastewater treatment plant, a DTE-owned electrical substation building, asphalt-paved parking areas, and vegetated landscaped areas. The Site currently contains unoccupied administrative offices and a light-duty truck assembly plant. The Site was recently parceled from the campus and as part of reorganization General Motors Corporation. General Motors Corporation has recently filed for Chapter 11 bankruptcy and has been renamed as Motors Liquidation Company. Motors Liquidation is the owner of the Site.

Based on the historical sources reviewed, the Site consisted of unimproved land as of 1907. The Site was improved by GM in 1972 with a large assembly plant for medium and light duty truck manufacturing (formerly known as Pontiac East Assembly or now known as Pontiac Assembly Center). At this time, the plant is vacant, as operations shut down in September 2009. Major manufacturing activities associated with the production of these vehicles included welding, painting, and assembly. Additions were added to the western portion of the plant in 1985/1986 and in 1997. A waste water treatment plant remains operational to service decommissioning activities of the Pontiac Assembly Center and is located on the southwestern portion of the Site. The treatment plant is expected to be shut down once the Pontiac Assembly Center has been permanently closed.

As a result of the findings of multiple on-site and off-site subsurface investigation activities performed from 1991 to 2009, the Site and the surrounding Centerpoint Campus are subject to Resource Conservation and Recovery Act (RCRA) Corrective Action and regulation under the US Environmental Protection Agency (US EPA) and the Michigan Department of Environmental Quality (MDEQ). The MDEQ is now known as the Michigan Department of Natural Resources and Environment (MDNRE).

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 2100 S. Opdyke, Pontiac, Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report. This assessment has revealed the following RECs associated with the Site:

- Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the former Pontiac Assembly Center, the operations had the potential to impact areas of the Site which have not been previously investigated due to the presence of building foundations and/or utility corridors.
- ARCADIS' review of historical aerial photographs, topographic maps, and the site visit indicate that railroad tracks are located on the south and southwest portion of the Site. Various unknown materials were transported on the tracks and potential impacts from releases are unknown. Also, according to documentation from the Site, a release of oil to the pavement at the rail shipping yard occurred on May 12, 2004. The release was cleaned immediately and the source of the release was unknown. Based on the minimal amount of oil spilled and the containment of the release to the rail shipping area, the release was not reported to any regulating agency. In addition, railroad ties were typically preserved with creosote, which over time has the potential for impacting the surrounding surfaces.
- The properties surrounding the Site to the west were historically part of the GM Centerpoint campus that at one time included more than 60 manufacturing buildings on more than 400 acres. Industrial operations at these properties began in 1927 and were contiguous with the on-site production of medium and heavy duty trucks and buses. According to the EDR reports several on-going environmental investigations are occurring on the surrounding Centerpoint Campus properties that involved both the MDEQ (now known as MDNRE) and the US EPA oversight including a leaking underground storage tank (LUST) investigation and CORRACTS (corrective action report). Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the surrounding Centerpoint Campus, there is potential for impact to areas of the Site which have not been previously investigated due to the presence of building foundations and/or utility corridors.

- ARCADIS observed evidence of three active USTs located west of the plant. According to Site personnel the each UST has a capacity of 15,000 gallons. Two tanks contain gasoline product while the third contains diesel fuel product. Approximately 300 gallons of product is estimated to remain in each tank. The tanks are listed as currently in use on the MDNRE database. No information regarding sampling in the vicinity of the three USTs was available.
- Stormwater at the Site flows to storm drains located in the parking lots. The storm drains flow to two retention ponds, one located on the southwestern portion of the Site and one located north of the Site. According to documentation from the Site a line on the cleaner waste tank system of the Waste Water Treatment Plant broke and the spilled liquids entered the south retention pond on January 16, 1991. According to the document, all spilled material was captured at the pond. No additional information was available. In addition, when occupied over time, parking lot areas represent a common source of automotive fluids. Since the retention ponds receive drainage (a.k.a. runoff) from the parking lots and have previously received releases from the Waste Water Treatment Plant, the potential for impact exists.
- The facility is listed on the ERNS database. The Site ID is listed as 99619226. The facility is listed as having a spill of 50 gallons of unleaded gasoline on January 9, 1999. The database indicates a front end loader pushed snow into a 2.5 inch pipe within the plant. Affected snow was reportedly scraped up and put into drums and the release was secured.
- The facility is listed on the PCB TRANSFORMER database. The transformer location ID is listed as 1343. No additional information is provided in the database.
- The facility is listed on the AUL database as part of Program Part 213 with a pending status and MDEQ Reference No. RC-RRD-213-09-034.
- The facility is listed on the SPILLS database. The facility had a release on December 20, 2006 in which a contractor's roll-off truck hit an overhead trestle which caused a rupture to a line. Fifty gallons of power steering fluid spilled onto concrete but did get to a soiled area. The release reportedly did not reach the sewer.
- The facility is listed on the ERNS database with Site ID 96516826. A release was reported on December 2, 1996. A heavy gasoline odor was observed in the treatment plant; however, no gasoline releases were reportedly visible anywhere.

- The facility is listed on the SPILLS database for a release on December 3, 2007. According to the database, a rinse line for the painting process sprang a leak and the spill entered the storm sewer and into the retention pond. The leak was reported as RO-H2O with Elpo-paint process particles. According to documentation provided by the Site, the MDEQ (now known as MDNRE) was notified of the spill on December 3, the leak was plugged on December 3, and the damaged pipe was replaced on December 8, 2007. A water sample was collected from the retention pond which receives storm water drainage from the Site, and minimal amounts of barium, chromium, nickel, silver, and zinc were found below drinking water criteria. Plasticizer was found at 0.01 mg/L versus the drinking water standard of 0.006 mg/L. No letter of closure from the MDEQ was included. However, electronic correspondence with the MDEQ implied no further action appeared necessary, but that Oakland County should be contacted for notification of the spill.
- The facility is listed on the SPILLS database for a release on May 6, 2005. According to the database, the overfill of a diesel tank released 25 to 50 gallons of fuel onto the ground.
- Documentation from the Site indicated that on August 21, 1985, a release of 500 gallons of wastewater overflowed from a tank located at the Waste Water Treatment Plant. According to the documentation the wastewater entered a storm drain which discharges to a retention pond. The information was unclear as to whether this retention pond was located on the Site. However, water samples were collected from the pond and from various points downstream of the pond and analyzed for hexavalent chrome. All water samples were non-detect for the analyte.

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- 2 Site Plan
- 3 USGS Topographic Map

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- A User Questionnaire
- B Historical Research Documentation
- C EDR Radius Map Report
- D Photograph Log
- E Qualifications of Environmental Professional(s)

1.0 INTRODUCTION

ARCADIS U.S., Inc. Company, (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the property located at 2100 S. Opdyke, Pontiac, Oakland County, Michigan (the “Site”). The Site consists of approximately 180 acres of land and includes (162 acres according to Oakland County) an approximately 3.4 million-square foot multi-story office/manufacturing building. The Site is currently vacant and was previously operated as a truck assembly plant and was once a part of the larger Pontiac Centerpoint campus that included more than 60 manufacturing buildings on more than 400 acres.

1.1 Purpose

Motors Liquidation Company (the Client) requested that ARCADIS conduct a Phase I ESA of the Site. The objective of the ESA was to identify RECs in connection with the property, to the extent feasible pursuant to the processes prescribed in American Society for Testing and Materials (ASTM) E 1527-05 guidelines. The term “REC” as defined by the ASTM is the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or the material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

This Phase I ESA includes information gathered from federal, state, and local agencies; personal interviews with people familiar with the Site and surrounding properties; and a site visit conducted by a ARCADIS representative.

1.2 Detailed Scope of Services

The Phase I ESA conducted by ARCADIS included, but was not limited to, the following services:

- a reconnaissance-level visit of the Site to look for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for on-site releases of hazardous materials and petroleum products
- drive-by observations of adjacent properties and the site vicinity
- interviews with people familiar with the Site, as available
- review of regulatory and local agency files, as necessary

- review of historical documents, as available
- preparation of a report presenting our findings, including a summary of conclusions and recommendations

1.3 Significant Assumptions

The purpose of this Phase I ESA is to provide appropriate inquiry into the previous ownership and use of the Site consistent with good commercial and customary practice in an effort to minimize liability. ARCADIS also assumes that the information provided by the Client, the regulatory database provider, and regulatory agencies is true and reliable.

1.4 Limitations and Exceptions

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ARCADIS and the original party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. To the extent that ARCADIS relied upon any information prepared by other parties not under contract to ARCADIS, ARCADIS makes no representation as to the accuracy or completeness of such information. Only the party for whom this report was originally prepared, its lenders, insurers and professionals, and other specifically named parties, may make use of and rely upon the information in this report, in its entirety, for a period not to exceed 180 days in accordance with the American Society for Testing and Materials (ASTM's) "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" ASTM Designation E 1527-00 dated May 10, 2000, ASTM's "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" ASTM Designation E 1527-05 dated November 1, 2005, and/or the Code of Federal Regulations (CFR) 40 CFR Part 312 "Standards and Practices for All Appropriate Inquiries: Final Rule" dated November 1, 2005. After 180 days and prior to using the information contained herein, the report should be updated in accordance with ASTM Standards and Federal regulations.

The findings presented in this report apply solely to site conditions existing at the time when ARCADIS' assessment was performed. It must be recognized, however, that an ESA is intended for the purpose of evaluating the potential for contamination through limited research and investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ARCADIS' ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in ESA conclusions cannot reasonably be achieved.

ARCADIS, therefore, does not provide any guarantees, certifications, or warranties (express or implied) that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and all applicable laws, codes, regulations, or standards.

1.5 User Reliance

This report is for the exclusive use of Motors Liquidation Company. Use of this report by any other party shall be at such party's sole risk.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Site is located at 2100 S. Opdyke, Pontiac, Oakland County, Michigan. The Site is located on the west side of S. Opdyke, north of Centerpoint Parkway and south of Campus Drive.

Based on information obtained from the Oakland County Commercial and Industrial Profile, the Site is identified by Parcel ID 19-03-200-019 and legal description is as follows: T2N, R10E, SEC 3 ASSESSOR'S PLAT NO 110 PART OF LOTS 5, 6 & 7, ALL OF LOT 8 & PART OF LOT 9 & ALL OF LOT 10, ALSO PART OF E 1/2 OF SEC ALL DESC AS BEG AT PT DIST S 00-36-21 W 1215.50 FT FROM NE SEC COR, TH S 00-36-21 W 2059.81 FT (TO E 1/4 COR), TH S 00-24-47 E 880.96 FT, TH S 89-35-13 W 95 FT, TH ALG CURVE TO LEFT, RAD 215 FT, CHORD BEARS S 61-29-01 W 202.56 FT, DIST OF 210.91 FT, TH ALG CURVE TO RIGHT, RAD 225 FT, CHORD BEARS S 62-11-13 W 216.83 FT, DIST OF 226.24 FT, TH N 89-00-24 W 1422.62 FT, TH N 45-10-30 W 432.91 FT, RAD 400 FT, CHORD BEARS N 07-58-11 W 483.74 FT, DIST OF 519.48 FT, TH N 29-14-08 E 299.59 FT, RAD 750 FT, CHORD BEARS N 15-19-08 E 360.76 FT, DIST OF 364.33 FT, TH N 01-24-09 E 632.31 FT, N 14-17-32 W 405.77 FT, DIST OF 410.89 FT, TH N 29-59-13 W 24.18 FT, TH N 01-32-01 E 299.48 FT, TH N 87-51-44 W 61.57 FT, TH N 02-32-55 E 124.59 FT, TH S 87-25-59 E 287.26 FT, TH N 00-11-13 E 616.94 FT, RAD 450 FT, CHORD BEARS N 47-58-00 E 65.95 FT, DIST OF 66 FT, TH N 44-34-41 E 56.60 FT, RAD 357 FT, CHORD BEARS N 67-36-06 E 279.25 FT, DIST OF 286.91 FT, TH S 89-22-30 E 723.10 FT, TH S 85-22-15 E 200.49 FT, RAD 190 FT, CHORD BEARS S 51-09-50 E 235.05 FT, DIST OF 253.43 FT, TH S 12-57-10 E 184.05 FT, RAD 250 FT, CHORD BEARS S 51-10-24 E 309.35 FT, DIST OF 333.54 FT, TH S 89-23-39 E 155.72 FT TO BEG EXC THAT PART IN OPDYKE RD 11-7-96 FR 008,009&426-004.

Refer to Figure 1 for map showing the Site location.

2.2 Site and Vicinity General Characteristics

The Site is generally a rectangular-shaped tract of land that is situated in a mixed industrial/commercial/residential area. The Site is located in Oakland County and is within the city limits of Pontiac. The industrial properties are concentrated along the north and west of the Site, with residential areas situated to the southwest of the Site beyond the train tracks and east of the Site across S. Opdyke. Commercial properties are adjacent to the south of the Site beyond Centerpoint Parkway and north of the Site beyond Campus Drive.

2.3 Current Use of the Site

The Site currently consists of a 3.4 million-square foot building, a wastewater treatment plant, a DTE-owned electrical substation building, asphalt-paved parking areas, and vegetated landscaped areas. The Site currently contains unoccupied administrative offices and a light-duty truck assembly plant.

2.4 Descriptions of Structures, Roads, and Other Improvements on the Site

The Site is improved with a 3.4 million-square foot, multi-story office/manufacturing building. The Site building is comprised of approximately 90% manufacturing area and 10% offices. The building is surrounded on all sides by asphalt paved parking lots.

The Site reconnaissance activities were performed on February 11 and 16, 2010. During the site visit the outside portions of the Site were covered by approximately 8 inches of snow and therefore ARCADIS visual observations of the property surfaces were limited.

The Site is currently closed. The building is locked and monitored seven days a week by security.

Refer to Figure 2 for a plan depicting the layout of the Site.

2.4.1 Source of Potable Water

The City of Pontiac provides drinking water to the Site.

2.4.2 Sewage Disposal System

The Site is serviced by the City of Pontiac Department of Public Works and Utilities.

2.4.3 Heating/Cooling Systems

According to Site personnel, DTE Energy provides electricity and Consumers Power Company supplies natural gas to the Site.

2.4.4 Solid Waste Disposal

Although the Site is closed, minimal solid waste is generated on-site associated with property up-keep. The solid waste generated is collected in a roll-off dumpster and transferred off site by Waste Management for proper disposal.

2.5 Current Uses of Adjoining Properties

The use of the adjoining properties at the time of ARCADIS' investigation is summarized as follows:

- The Site is abutted to the north by Campus Drive followed by a commercial property, Motor City Movies (1999 Centerpoint Parkway).
- The Site is abutted to the west by Centerpoint Parkway. Beyond Centerpoint Parkway, to the west, is Pontiac Centerpoint Campus (660 South Boulevard East).
- The Site is abutted to the south by Centerpoint Parkway and Grand Trunk Western Railroad.
- The Site is abutted to the east by S. Opdyke. Beyond S. Opdyke, to the east, is residential property.

3.0 USER-PROVIDED INFORMATION

The following items regarding the Site were requested by ARCADIS to the Client's representative. The questionnaire was sent to Mr. Jim Clark, the MLC Site Manager for the facility and answers are provided below.

3.1 Title Records

Title records were not provided to ARCADIS for review. According to the Oakland County Commercial and Industrial Property Profile Parcel ID 19-03-200-019 had not been sold since 1994.

3.2 Environmental Liens or Activity and Use Limitations

Mr. Jim Clark was asked the following questions as part of the assessment:

- Is he aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law? **Answer:** No
- Is he aware of any activity or land use limitations, such as engineering controls, land use restrictions, or institutional controls, that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state, or local law? **Answer:** No

3.3 Specialized Knowledge

Mr. Jim Clark was asked the following questions as part of the assessment:

- Do they have any specialized knowledge or experience related to the property or nearby properties? For example, are they involved in the same line of business as the current or former occupants of the property or an adjoining property so that they would have specialized knowledge of the chemicals and processes used by this type of business? **Answer:** Unknown
- Are they aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? **Answer:** Yes. The facility was utilized as a medium duty and full size pickup truck assembly plant.
- Do they know the past uses of the property? **Answer:** Yes. Utilized for automotive assembly only.
- Do they know of specific chemicals that are present or once were present at the property? **Answer:** No
- Do they know of spills or other chemical releases that have taken place at the property? **Answer:** No
- Do they know of any environmental cleanups that have taken place at the property? **Answer:** No
- Do they know if any fill materials have been imported to the Site? **Answer:** No
- Do they know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? **Answer:** No
- Do they know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? **Answer:** No
- Do they know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? **Answer:** No

3.4 Commonly Known or Reasonably Ascertainable Information

Mr. Clark was asked the following question as part of the assessment:

- Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property? **Answer:** No

3.5 Valuation Reduction for Environmental Issues

An analysis of a hypothetical prospective purchase price of the Site has not been conducted.

3.6 Owner, Property Manager, and Occupant Information

According to the Oakland County Commercial and Industrial Property Profile, the owner of the Site is identified as General Motors Corporation (Truck Group). General Motors Corporation has recently filed for Chapter 11 bankruptcy and has been renamed as Motors Liquidation Company. Motors Liquidation is the owner of the Site.

This facility has been unoccupied since September 2009.

3.7 Reason for Performing Phase I

The purpose of this Phase I ESA is to provide appropriate inquiry into the previous ownership and use of the Site consistent with good commercial and customary practice in an effort to minimize liability.

4.0 RECORDS REVIEW

The following sections provide information regarding the regulatory status and history of the Site and vicinity developed from information available from local, state and federal agencies and ASTM Standard Historical Sources. It also provides topographic, hydrologic and soil conditions in the area of the Site.

4.1 Historical Use Information

4.1.1 Previous Environmental Reports

Previous environmental reports/documents for the Site included:

- RCRA Facility Investigation (RFI) Report, Centerpoint Business Campus, completed by Conestoga-Rovers & Associates (CRA) dated October 21, 2005.
- Corrective Measures Proposal, Centerpoint Business Campus, completed by CRA dated April 21, 2006.

- Letter of Correspondence RE: Response to Comments and Final Decisions, issued by the Environmental Protection Agency to General Motors Corporation, dated August 3, 2006.
- Administrative Order on Consent in the Matter of General Motors Corporations, Pontiac Centerpoint Campus/Pontiac Assembly Plant, EPA ID#: MID005356902, USEPA Docket No. RCRA-05-2007-0009, US Environmental Protection Agency Region 5, dated May 24, 2007.
- Long-Term Monitoring Plan, Pontiac Centerpoint Campus, completed by CRA, dated November 23, 2007.
- Phase I Environmental Site Assessment (ESA) completed by Conestoga-Rovers & Associates (CRA) dated December 2008.

CRA, with guidance and input from the US EPA, has performed a series of investigations at the Site and at the surrounding GM facilities located on the contiguous Centerpoint Campus from November 1998 through the present. The following table summarizes in “Areas of Interest” (AOI) and “Solid Waste Management Units” (SWMU) identified during the course of the RCRA Investigations that have current or on-going corrective measures. Subsequent paragraphs following the table summarize the investigation reports in greater detail.

SWMU/AOI ID	Description	On-Site	Adjoining Property	Corrective Measures
#30/#79	Former J-Lot Fill Area		North of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#32/#49	Former Coal Pile Storage Area		West of Site on Pontiac Centerpoint Campus – West	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#3/#74	Former Container Storage Area	X	Southwest portion of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#29/#66	Wastewater Treatment Plant	X	Southwest portion of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water

SWMU/AOI ID	Description	On-Site	Adjoining Property	Corrective Measures
#31/#54	Former Surface Impoundment	X	Southwest portion of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#33/#45	Former South Retention Pond		South of Site	No Further Action (NFA)
#34/#46	North Retention Pond		North of Site on former Pontiac Centerpoint Campus – East	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#16	Former Building 29 Tank Farm;		West of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#6/#42	Building 53 Tank Area		West of Site	No Further Action (NFA)
#44	Building 43 Remediation		West of Site	No Further Action (NFA)
#50	DUCO Stores		West of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#52	Building 35 Tank Farm		West of Site on Pontiac Centerpoint Campus – West	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#53	Building 33 Free Product Area		Northwest of Site on Pontiac Centerpoint Campus – West	Product recovery terminated in accordance with USEPA approval letter dated 5/6/09. CRA stated the received NFA approval e-mail from the EPA case officer
#69	Container Storage Area	X	Southwest portion of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water

SWMU/AOI ID	Description	On-Site	Adjoining Property	Corrective Measures
#71	Burn Pile Area;	X	Southwest portion of Site and south-adjacent property	Passive recovery is complete. Approval to terminate passive recovery granted in US EPA letter dated 5/6/09. Completed 1 st year of SMR in 2009. The Site will submit final monitoring report in March 2011.
#2/#75	Former East Tank Farm	X	Western portion of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#82	Former Paint Mix Room Retention Tank	X	Southern portion of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#83	Dock 65	X	Western portion of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#84	Former Tank Farm Area	X	Western portion of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water

The nine AOIs/SWMUs identified at the Site have been extensively investigated by CRA from 1991 to the present. Additional details of the historical investigations of these areas are summarized below:

- **AOI #3/#74 - The former Container Storage Area:** is located on the southwest portion of the Site. The former Container Storage Area consisted of a concrete containment pad measuring approximately 50 feet wide by 100 feet long. The area was used for the temporary accumulation (less than 90 days) of 55-gallon drums containing waste solvents and sludges, as well as non-hazardous materials.

In December 1998 CRA supervised the installation of 6 borings as part of the RFI. No visual staining was observed. Several constituents were detected in soil samples including 10 SVOCs, one PCB, 23 metals, and total cyanide at concentrations at or above the MDL. One monitoring well was installed at the area in August 2000. The groundwater samples identified 14 metals and 13 dissolved metals at or above the MDL. No detected concentrations were higher than the MDEQ (now MDNRE) generic industrial screening criteria in 2000. Therefore, no remedial action was required.

- **AOI #29/#66 - The Wastewater Treatment Plant:** is located on the southwest portion of the Site. The Wastewater Treatment Plant consists of 20 ASTs. The wastewater tanks include tanks for the treatment of acid and general wastes, clarifies, and equalization tank, a cleaner waste tank, and an oil skimmer tank.

In December 1998, CRA supervised the installation of eight borings as part of the RFI. Several constituents were detected in soil samples including five VOCs, 17 SVOCs, two PCBs, 23 metals, and sulfide at concentrations at or above the MDL. No concentrations were higher than the applicable MDEQ generic industrial screening criteria (2000). Therefore, no remedial action was required.

- **AOI #31/#54 - The former Surface Impoundment:** is located on the southwest portion of the Site. The former Surface Impoundment was used to temporarily store wastewater during a period of WWTP repair. Since 1995, redevelopment activities in the vicinity of the area have included the construction of the South Access Road and grading and landscaping during development of the Centerpoint Business Campus.

In December 1998, CRA supervised the installation of six borings as part of the RFI. Several constituents were detected in soil samples including one VOC, 11 SVOCs, one PCB, 23 metals, and total cyanide. One monitoring well was installed at this area in August 2000. The groundwater sample collected from this monitoring well identified 3 VOCs, 12 total metals, and 9 dissolved metals at concentrations at or above the MDL. Detections of lead and arsenic in soil were higher than the MDEQ (now known as MDNRE) generic industrial screening criteria (2000). No other constituents were above the industrial screening criteria. The site-specific risk evaluation determined that the concentrations of arsenic and lead did not pose a significant risk.

- **AOI #69 - The Container Storage Area:** is located on the southwest portion of the Site. The Container Storage Area consists of a 12,543 square foot, 8 inch thick epoxy-coated concrete waste management pad that was constructed in 1980. The western half of the area was a covered hazardous waste drum storage area and the eastern half operated as an uncovered non-hazardous waste bulking area.

Closure activities included decontamination, soil sampling, and remedial excavation of approximately 35 cubic yards of soil north of the bulking pad retaining wall. Soil analytical data from the excavation were compared to the Michigan Part 201 generic residential and industrial criteria, and no concentrations exceeded the criteria. The activities satisfied the requirements of the waste management pad closure and the MDNR (now known as MDNRE) issued a letter dated June 27, 1991 for the approval of the closure.

- **AOI #71 - The Burn Pile Area:** is located on the southwestern portion of the Site. CRA conducted investigations at the area from August 13, 2004 until July 25, 2005.

The investigation consisted of the advancement of 12 soil borings, installation of five permanent monitoring wells and seven temporary monitoring wells, and excavation of ten test pits.

A small amount of LNAPL was encountered in a monitoring well. Consequently a LNAPL recovery program was initiated. In August 2004 approximately 85 gallons of LNAPL were recovered. The LNAPL was submitted for chemical analysis. LNAPL presence checks were subsequently conducted at monitoring well in August 2004, September 2004, October 2004, November 2004, and July 2005. Trace amounts of LNAPL were identified in September, October and November 2004; however, the amounts were insufficient to recover. In October 1994, approximately 6,500 cubic yards of potentially affected soil was stockpiled and transported off-site. During the excavation, an old clay sewer was encountered. The line and associated bedding were filled with water. Approximately 30,000-gallons of water was pumped into tanks, sampled, and treated at the WWTP. Further investigation was conducted in March 2006 to determine the extent of contamination and to determine the appropriate Corrective measures. The initial results of the investigation indicate the LNAPL has been delineated and that no other major sources of significant contamination exist at this AOI. A notice of off-site migration was filed with the MDEQ (now known as MDNRE).

There are two community drinking water supply wells south of the Burn Pile. These wells are installed at a depth of approximately 220 feet below ground level (bgl). Analytical data retrieved for these wells from December 2000 to April 2005 indicate that none of the constituents that have been identified at the Burn Pile have concentrations that exceed Part 201 generic residential Drinking Water Criteria (DWC).

- **AOI #2/#75 - The former East Tank Farm:** is located on the western portion of the Site. The former East Tank Farm area was identified as a former hazardous waste storage area of approximately 4,500 square feet housing two former vertical 10,000-gallon ignitable waste collection tanks. The former waste storage area initially received drummed waste such as chlorinated solvents, waste paints, and waste solvents. These drummed wastes were subsequently removed and the area was used as a secondary containment for the two storage tanks. These storage tanks were used for the storage of waste paint and waste solvent. Closure activities were completed between October 4, 1989 and October 6, 1989. Excavation and disposal of 780 cubic yards of contaminated soils was performed between February 1990 and March 1990. Soil sample analytical data from the excavation were all below Cleanup criteria; therefore, no further action was necessary. The MDNR (now known as MDNRE) approved the closure in a letter dated October 30, 1990.
- **AOI #82 - The former Paint Mix Room Retention Tank:** is located on the southern portion of the Site. The former Paint Mix Room Retention Tank was utilized as a secondary containment tank to collect water from the paint mix room's fire suppression deluge system.

Removal activities of the former paint mix room retention tank by ABB Environmental Services, Inc. commenced on December 6, 1989 with the removal of a concrete pad which had overlaid the former paint mix room retention tank. During the excavation of the tank area, solvent odors were identified, and soil sampling from the excavation and surrounding area was performed. Analysis of the soils identified detectable levels of ethyl benzene, toluene, xylene, and methyl ethyl ketone, primarily in the upper 2 to 4 feet, which was suspected to be from overfilling the tank.

Approximately 465 tons of soils were excavated and disposed off-site. The soil excavation activities commenced on October 3, 1990 and were completed in five phases ending on June 13, 1991. The report of the remediation concluded that the cleanup of the tank area met the then current Michigan Act 307 Type B cleanup criteria. The data was also compared to the Michigan Part 201 generic residential and industrial criteria, and no concentrations exceeded the criteria. Therefore, no further actions are required.

- **AOI #83 – Dock 65:** is located on the western portion of the Site. In July 1994, odors of paint solvent were detected in the excavated soils while in the process of installing concrete footers for a new process line. A soil and groundwater investigation was undertaken by ABB that documented elevated levels of VOCs in the area.

Following delineation of the extent of contamination, approximately 600 cubic yards of impacted soils were removed during the first round of excavation. Some additional remedial excavation was conducted following the first round of verification sampling. The area was remediated to the then current Michigan Act 307 Type B criteria, and no additional activities were warranted. The soil data were also compared to the Michigan Part 201 generic residential and industrial criteria, and no concentrations exceeded these criteria.

- **AOI #84 - The former Tank Farm Area:** is located on the western portion of the Site. The former Tank Farm Area consisted of ten USTs of varying sizes ranging from 10,000 to 24,000-gallons each. These tanks were utilized for the storage of various automotive fluids including axle lubricant, power steering fluid, engine oil, glycol, manual and automatic transmission fluid, diesel fuel, and gasoline.

According to documentation from the Site, 150 gallons of gasoline leaked onto the ground within a containment area from a fueling station at the tank farm. All the material was recovered and transported off the Site. On October 11, 1991, a confirmed release was reported to the State during UST excavation and removal activities (Release Number C-2741-91). Remediation of the former Tank Farm Area commenced on October 1991 and was completed by November 1994. A total of 7,300 cubic yards of soil was excavated and disposed at a commercial landfill. Soil data were compared to the Michigan Part 201 generic residential and industrial criteria, and no concentrations exceeded these criteria. No further action was required. Closure approval of the former tank farm area was received from the MDNR (now known as MDNRE) in a letter dated September 18, 1995.

The following paragraphs summarize the previous environmental investigations reviewed as a part of this assessment in greater detail.

A Corrective Measures Proposal (CMP) issued by CRA on April 21, 2006 identified the remedial actions necessary to address the SWMUs and AOIs listed the table above. The US EPA reviewed the CMP and responded with final remedial actions required in a letter of correspondence (dated August 3, 2006). An Administrative Order of Consent (Consent Order) was agreed upon between US EPA Agency Region 5, General Motors and CRA in May 2007. The status of Final Corrective Measures in the Consent Order that applied specifically to the Site was as follows:

- AOI #3/#74 The Container Storage Area corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction to prevent shallow ground water from being used as drinking water.
- AOI #29/66 The Wastewater Treatment Plant corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater being used for drinking water.

- AOI #31/#54 The former Surface Impoundment corrective measures included institutional controls to restrict land use commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.
- AOI #69 The container storage area corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater in an unconfined aquifer being used for drinking water.
- AOI #71 The Burn Pile corrective measures included institutional controls with long-term monitoring and passive recovery of LNAPL, hydraulic containment, engineered soil cover, and excavation and off-site disposal.
- AOI #2/#75 The former East Tank Farm corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.
- AOI #82 The Former Pint Mix Room Retention Tank corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.
- AOI #83 Dock 65 corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.
- AOI# 84 – The Former Tank Farm Area corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.

Additional Corrective Measures were proposed that applied to the entire GM Centerpoint Campus, including the Site and are summarized below:

- Maintenance of existing groundwater and land use restrictions for the entire Centerpoint Campus to ensure that the human health risk assessment assumptions on future on-site groundwater and land use remain valid. Restrictions of groundwater use and land use have been established through a Declaration of Restrictive Covenant filed with the Oakland County Clerk/Register of Deeds on April 13, 2007. Note that the deed restricted area covers most or all of the Central Parcel as a matter of policy for old manufacturing sites. However, only select areas of the Central Parcel required the restrictions under the EPA-approved documents.
- Establish/maintain financial assurance for completion of corrective measures and long-term requirements (institutional controls). This applies to the overall Centerpoint Campus. There are no long term groundwater monitoring requirements for the Centerpoint Campus - Central parcel identified in the EPA-approved November 2007 Long-Term Groundwater Monitoring Plan.

The CMP also contains other Corrective Measures for the identified SWMU's/AOIs (listed in the table above) that are located on other portions of the former GM Centerpoint Campus and are beyond the boundaries of the Site and therefore not applicable to the Site, specifically.

In the US EPA's 2006 Response to Comments and Final Decision letter, the US EPA chose the final corrective action remedy for the Site. The US EPA stated that the remedy would include recovery of LNAPL from underneath Building 33, long-term groundwater monitoring, passive recovery from well #MW-1, and institutional controls for soil and groundwater.

An Administrative Order on Consent was issued to Pontiac Centerpoint Campus/Pontiac Assembly Center Former Pontiac Truck Group on May 16, 2007. The Order was issued under Section 3008(h) of the Solid Waste Disposal Act. There had been a release of hazardous wastes or hazardous constituents into the environment from the Pontiac Centerpoint Campus. GM conducted investigations and removed soil contaminated with benzene, toluene, ethylbenzene and xylene (BTEX) and polynuclear aromatics (PNAs) at AOI # 16, 42, 50, 52, 53, and 84. GM removed soil contaminated with lead at AOI #44, 71, and 79 and removed soil contaminated with solvents and paint at AOI #75, 82, and 83. In addition, GM recovered LNAPL from groundwater at AOI #50 and 53. The US EPA determined that the parts of the Facility not covered by the Final Decision dated August 3, 2006 and/or not subject to use restrictions are Corrective Action Complete without controls.

The Long Term Monitoring Plan includes the Burn Pile Area (AOI #71) and the Building 33 Free Product Area (AOI #53). The Plan describes that monitoring of groundwater elevations, the presence of LNAPL, and chemical concentrations, will be performed at the Burn Pile Area due to impacts associated with historic filling and at specific monitoring wells associated with the former Building 33 Free Product Area due to prior petroleum releases. The two areas described are not located on the Site. Monitoring at the Former Duco Stores Tank Farm (AOI #50) and the Former Building 35 Tank Farm (AOI #52) was not specifically required in the Final Decision. GM elected to conduct monitoring at AOI #52 due to LUST-associated monitoring taking place at AOI #52).

Based on the information obtained from the previous environmental investigations provided, it appears that either historical and/or current recognized environmental conditions are present at the Site. Refer to Section 7.0 for a discussion of the RECs and HRECs identified during the course of ARCADIS' investigation.

4.1.2 Historic Map Review

ARCADIS contracted Environmental Data Resources, Inc. (EDR) to conduct a Sanborn Fire Insurance (Sanborn) map search for the Site. However, no Sanborn Maps were available for review.

4.1.3 Aerial Photograph Review

ARCADIS reviewed historical aerial photographs provided by EDR for the years 1937, 1940, 1949, 1957, 1961, 1967, 1972, 1980, 1993, 2000 and 2005.

The 1937 aerial photograph depicts the Site as utilized for agricultural land, with the exception of the west-central portion of the Site which is wooded land. A tall small structure is depicted on the northern portion of the Site.

Remnants of a former orchard are depicted immediately north of the Site, and an additional orchard is depicted east of the Site. Additional agricultural land is depicted north, northeast, east, southeast, and south of the Site. South Boulevard is present to the north of the Site, and Opdyke Road is depicted east of the Site. A railroad is depicted south, southwest, west, and northwest of the Site. The Pontiac Centerpoint Campus-West facility and an unpaved parking lot are depicted west of the Site.

The 1940 photograph depicts the Site and surrounding area similar to the 1937 photograph.

The 1949 photograph depicts the eastern portion of the Site as portioned off by secondary unpaved roads for apparent development, possibly residential. The small structure on the northern portion of the Site is no longer depicted. Five small ponds are depicted throughout the Site. Disturbed soils associated with adjacent development are depicted on the southwestern portion of the Site.

Additional portioned off properties are depicted east of the Site, beyond Opdyke Road. South Boulevard is present to the north of the Site on the 1949 aerial photograph. An addition has been added to the Pontiac Centerpoint Campus-West facility west of the Site.

The 1957 and 1961 aerial photographs depict the Site and the surrounding properties similar to the 1949 photograph.

The 1967 aerial photograph shows the Site similar to the 1961 aerial photograph.

A paved parking lot is depicted north of the Site. Residential development is depicted east of the Site, beyond Opdyke Road.

The 1972 aerial photograph depicts the Site as developed with the plant in the central portion and the wastewater treatment plant on the southwestern portion of the Site. Rail spurs are depicted entering the Site from the southwest. Paved parking areas are depicted north, east, and west of the plant.

Additional residential development is depicted east, southeast, and south of the Site.

The 1980 and 1993 aerial photographs depict the Site and surrounding properties similar to the 1972 aerial photograph.

The 2000 aerial photograph depicts an addition to the western portion of the plant. A retention pond is depicted in the southwestern portion of the Site.

Additional commercial properties are depicted northeast, south, and northwest of the Site.

The 2005 aerial photograph depicts the Site and surrounding properties as similar to the 2000 aerial photograph.

Copies of the above-referenced aerial photographs are included in Appendix B.

4.1.4 City Directories

ARCADIS contracted EDR to conduct a city directory search for the Site and surrounding area. EDR reviewed city directories for the Site every five years between 1922 and 2009, as available. The city directory information indicated that listings were found with the Site address, 2100 South Opdyke Road, for 2009. The Site address listings included:

- 2009: General Motors Corp., General Motors Pontiac, GM Truck Group Pontiac, and Securitas Security Services.

The EDR report identified the following occupants for adjacent property addresses:

- 1999: Residence Inn by Marriott (3333 Centerpoint Parkway); Burger King Corp., RG Restaurant LLC (2200 South Opdyke Road).
- 2004: Avis Rent-A-Car, Residence Inn by Marriott (3333 Centerpoint Parkway); Burger King Corp., RG Restaurant LLC (2200 South Opdyke Road).
- 2009: Residence Inn Pontiac Detroit (3333 Centerpoint Parkway); Burger King Corp., Ponmalrest Associates Burger King, RG Restaurant LLC (2200 South Opdyke Road).

The city directories reviewed did not identify any address for the Site along South Opdyke Road prior to 2009. The EDR City Directory Abstract is included in Appendix B.

4.1.5 Historical Topographic Maps

Topographic maps were obtained from EDR for the years 1907, 1943, 1952, 1968, 1973, 1983 and 1997.

The 1907 topographic map is a 15-minute series map depicts the Site as primarily unimproved land. Unimproved land is depicted in all directions of the Site. South Boulevard and residential structures are present to north. Grand Trunk Railroad is present to the south and southwest.

The 1943 topographic map is a 7.5-minute series map and depicts the Site as similar to the 1907 topographic map. Unimproved land is depicted in all directions of the Site. The Grand Trunk Western Railroad is depicted west of the Site, beyond which is depicted a large commercial structure. St. Joseph mercy Hospital and additional commercial structures are depicted further west and northwest of the Site.

The 1952 topographic map depicts the Site similar to the 1943 topographic map. The 1952 topographic map depicts the surrounding properties similarly as developed to the 1943 topographic map, except for an addition depicted to the commercial structure west of the Site and heavy development and additional commercial structures depicted southwest, west, and northwest of the Site.

The 1968 map depicts the Site as similar to the 1952 topographic map. The 1968 depicts the surrounding properties as similar to the 1952 topographic map, except heavy residential development depicted northeast, east, southeast, south, and southwest of the site, and additional commercial structures depicted north and immediately west of the Site.

The 1973 topographic map depicts the Site as developed with the plant in the central portion of the Site and the wastewater treatment plant on the southwestern portion of the Site. Railroad tracks are depicted as entering the Site from the southwest. A retention pond is depicted on the southwestern portion of the Site. Three water tanks associated with the fire suppression system are depicted in the northwestern portion of the Site. The 1973 topographic map depicts the surrounding properties similar to the 1968 topographic map.

The 1983 and 1997 topographic maps depict the Site and surrounding properties similar to the 1973 topographic map.

The EDR Topographic Map report is included in Appendix B.

4.1.6 Building/Planning Departments

ARCADIS submitted a FOIA request to the City of Pontiac Building Department and has not received a response as of to date. If a response is received after this Phase I ESA report is finalized, an addendum letter will be issued if the information obtained alters the findings of this report, otherwise the information will be maintained in ARCADIS project files.

Limited building information is maintained on the Oakland County Property Assessor website. ARCADIS accessed the Commercial and Industrial Property Profile on the Oakland County website to review available records on file for the Site. The records included a site map, building information, property photographs, and the commercial and industrial property profile.

4.1.7 Additional Record Sources

No additional historical record sources were reviewed in the course of this assessment.

4.1.8 Summary of Historical Information

Based on the historical sources reviewed, the Site consisted of unimproved land as of 1907. The Site was improved by GM in 1972 with a large assembly plant for medium and light duty truck manufacturing (formerly known as Pontiac East Assembly or now known as Pontiac Assembly Center). At this time, the plant is vacant, as operations shut down in September 2009. Major manufacturing activities associated with the production of these vehicles included welding, painting, and assembly. Additions were added to the western portion of the plant in 1985/1986 and in 1997. A waste water treatment plant remains operational to service decommissioning activities of the Pontiac Assembly Center and is located on the southwestern portion of the Site.

4.2 Historical Use Information on Adjoining Properties

The properties surrounding the Site to the north and west were historically a part of GM Centerpoint campus that included more than 60 manufacturing buildings on more than 400 acres. Industrial operations at these properties began in 1927 and were contiguous with the on-site production of medium and heavy duty trucks and buses.

According to the Oakland County Commercial and Industrial Property Profile, the adjacent properties located on the Centerpoint Campus are owned by General Motors Corporation. It is ARCADIS' understanding that during the bankruptcy proceedings in 2009, General Motors Corporation transferred assets, including the surrounding Centerpoint Campus properties to Motors Liquidation Company.

4.3 Physical Setting

4.3.1 Geology

4.3.1.1 Surface Features

Information regarding the regional and Site specific geology was obtained from EDR and prior Site investigations.

According to the EDR topographic information (Pontiac South, MI USGS Quadrangle Map), the Site elevation is approximately 939 feet. Topographically, the Site is flat due to extensive grading activities conducted during the development of the manufacturing complex. The general area has a gradual surface gradient from east.

4.3.1.2 Subsurface Features

According to EDR the soil component name of the Site is Urban Land. Soil Surface texture was not reported. The soil drainage class in the region is not reported and the hydric status is unknown. Underlying the surface, shallow, and deep soils are the bedrock deposits classified as Paleozoic Era, Mississippian System and Osagean and Kinderhookian Series.

A mix of sand, gravel, clay, asphalt, concrete and other engineering fill were found in past Site investigations. Fill was found at depths of 5 to 15 feet below ground surface. A glacial clay and till deposit is found below the surficial fill at the Site. A sand and gravel aquifer was encountered at approximately 120 feet below ground surface. Refer to Section 4.1.1 for additional details regarding the previous environmental investigations that have been performed at the Site.

4.3.2 Hydrology

4.3.2.1 Surface Water

There is a retention pond on the southwestern portion of the Site. Surface water flow in the areas of the building and the paved driveways and parking areas are largely controlled by drainage structures which discharge to this retention pond and an additional retention pond located off site to the north. The regional flow is to the north, towards the Clinton River, which is located less than 1 mile north of the Site.

4.3.2.2 Groundwater

Based on the Geotcheck® Addendum to the EDR Radius Map Report groundwater flow is reported to the north towards the Clinton River and groundwater is 17 to 125 below ground level (bgl). According to a previous report by CRA, the Site is located within the Rouge River and Clinton River drainage basins. The Clinton River is located northeast of the Site and the Rouge River is located southeast of the Site.

According to subsurface investigations performed by CRA between 1991 and 2009, groundwater has been found at depths of 10 to 20 feet below ground surface in the vicinity of the Site. According to previous reports groundwater is found in the unconfined water table zone, glacial till aquifers, lower sand and gravel aquifers, and bedrock aquifers. Refer to Section 4.1.1 for additional details regarding the previous environmental investigations that have been performed at the Site.

4.4 Standard Environmental Record Sources – Federal and State

ARCADIS contracted with EDR to conduct a search of state and federal regulatory databases to identify recorded concerns for the Site and surrounding properties. The databases were searched to the approximate minimum search distances as specified in ASTM Standard Practice E 1527-05, “Phase I Environmental Site Assessment Process.” The database search is provided as Appendix C.

Review of the EDR report revealed the following pertinent information.

Database	Search Radius (mile)	Site	0 – 1/8 mile	1/8 – 1/4 mile	1/4 – 1/2 mile	1/2 – 1 mile	> 1 MILE
NPL (National Priority List)	1.0	No	0	0	0	0	NR
Proposed NPL	1.0	No	0	0	0	0	NR
NPL LIENS (Federal Superfund Liens)	TP	No	NR	NR	NR	NR	NR
Delisted NPL	1.0	No	0	0	0	0	NR
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System)	0.5	No	0	0	0	NR	NR
FEDERAL FACILITY	1.0	No	0	0	0	0	NR
CERCLIS-NFRAP (No Further Remedial Action Planned)	0.5	No	0	0	1	NR	NR
RCRA CORRACTS (Corrective Action Report)	1.0	No	0	0	1	0	NR

Database	Search Radius (mile)	Site	0 – 1/8 mile	1/8 – 1/4 mile	1/4 – 1/2 mile	1/2 – 1 mile	> 1 MILE
RCRA TSDF (Transporters, Storage, and Disposal Facilities)	0.5	No	0	0	1	NR	NR
RCRA Generators	0.25	Yes	3	0	NR	NR	NR
US ENG CONTROLS (Engineering Controls Site List)	0.5	No	0	0	0	NR	NR
US INST CONTROL (Sites with Institutional Controls)	0.5	No	0	1	1	NR	NR
ERNS (Emergency Response Notification System)	TP	Yes	NR	NR	NR	NR	NR
SHWS (Contaminated Sites)	1.0	No	0	0	1	0	NR
State & Tribal SWF/LF (Solid Waste Facilities Database)	0.5	No	0	0	0	NR	NR
State & Tribal LUST (Leaking Underground Storage Tank Sites)	0.5	Yes	0	2	4	NR	NR
State & Tribal USTs (Underground Storage Tanks)	0.25	Yes	2	2	NR	NR	NR
State ASTs (Aboveground Storage Tanks)	0.25	Yes	0	0	NR	NR	NR
AUL (Engineering and Institutional Controls)	0.5	Yes	0	1	0	NR	NR
SPILLS	TP	Yes	NR	NR	NR	NR	NR
HIST LF (Inactive Solid Waste Facilities)	0.5	No	0	0	0	NR	NR
LIENS (Lien List)	TP	No	NR	NR	NR	NR	NR
FTTS (Federal Insecticide, Fungicide & Rodenticide Act/Toxic Substances Control Act Tracking System)	TP	Yes	NR	NR	NR	NR	NR
HIST FTTS (Historical FIFRA/TSCA Tracking System)	TP	Yes	NR	NR	NR	NR	NR
ICIS (Integrated Compliance Information System)	TP	Yes	NR	NR	NR	NR	NR
NPDES (National Pollutant	TP	Yes	NR	NR	NR	NR	NR
AIRS (Permit and Emissions Inventory Data)	TP	Yes	NR	NR	NR	NR	NR

Database	Search Radius (mile)	Site	0 – 1/8 mile	1/8 – 1/4 mile	1/4 – 1/2 mile	1/2 – 1 mile	> 1 MILE
BEA (Baseline Environmental Assessment Database)	0.5	No	1	1	2	NR	NR
PCB TRANSFORMER	TP	Yes	NR	NR	NR	NR	NR

Note: NR = Not Requested

4.4.1 Site

The Site was identified on the following federal and/or state regulatory databases searched by EDR: RCRA-LQG, ERNS, LUST, UST, AST, AUL, SPILLS, FTTS, HIST FTTS, ICIS, NPDES, AIRS, and PCB TRANSFORMER.

An unidentified facility (the Site) is listed at 2100 South Opdyke Road in Oakland County, Pontiac, Michigan. The facility is listed on the ERNS database. The Site ID is listed as 99619226. The facility is listed as having a spill of 50 gallons of unleaded gasoline on January 9, 1999. The database indicates front end loader pushed snow into a 2.5 inch pipe within the plant. Snow was scraped up and put into drums and the release was secured.

Electrical Substation #8 (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the PCB TRANSFORMER database. The transformer location ID is listed as 1343. No additional information is provided in the database.

Pontiac East Assembly (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the LUST, UST, and AUL databases. The Site is listed on the LUST database with Facility ID 765. A release of diesel (Leak No. C-0226-05) was reported on May 6, 2005 and was closed on July 29, 2008. A release of an unknown substance (Leak C-2741-91) was reported on October 11, 1991 and was closed on September 18, 1995. The facility is listed on the UST database with active facility ID 765. One 24,000-gallon axle lube UST, one 12,000-gallon power steering oil UST, one 12,000-gallon engine oil UST, one 12,000-gallon hazardous substance UST, two 12,000-gallon manual transmission USTs, one 12,000-gallon diesel UST, two 10,000-gallon gasoline USTs, and one 12,000-gallon automatic transmission fluid UST were installed on April 8, 1971 and were removed from the ground on September 9, 1991. One 1,500-gallon spill tank/hazardous substance 1 UST was installed on April 7, 1985 and was removed from the ground on May 7, 1991. One 15,000-gallon diesel UST and two 15,000-gallon gasoline USTs were installed on June 1, 1990 and are currently in use. The Site is listed on the AUL database a part of Program Part 213 with a pending status and MDEQ Reference No. RC-RRD-213-09-034.

Electrical Substation #1 (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the PCB TRANSFORMER database. The transformer location ID is listed as 1343. No additional information is provided in the database.

GMC Truck Group Pontiac East Assembly (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the ICIS database with FRS ID 110000404795. The facility is listed for various RCRA corrective actions.

General Motors Company (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the RCRA-LQG database. The facility is listed as a large quantity generator of hazardous waste with EPA ID MIK491326427.

GM-Pontiac Assembly Center (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the NPDES database. The facility is listed with permit number MIS110441 which was issued on July 28, 2006. The expiration date is listed as April 1, 2011.

An unidentified facility (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the SPILLS database. The facility had a release on December 20, 2006 in which a contractor's roll-off truck hit an overhead trestle which caused a rupture to a line. Fifty gallons of power steering fluid spilled onto concrete but did get to an unpaved/ soiled area. The release did not reach the sewer.

South Opdyke Road Waste Water Treatment Facility (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the ERNS database with Site ID 96516826. A release was reported on December 2, 1996. A heavy gasoline odor was observed in the treatment plant; however, no gasoline releases were visible anywhere.

General Motors Truck Group (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the FTTS and HIST FTTS databases with inspection number 20010327OODRB 1. No violations were reported for a PCB federal inspection.

GM Corporation Truck Group (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the AST database with Facility ID 91063181. Two 20,000-gallon flammable liquid AST was installed on an unreported date and was removed from the premises on October 6, 2009. One 12,000-gallon flammable liquid AST was installed on April 21, 2008 and is currently in use. One 20,000-gallon solvents AST was installed on an unreported date and is listed as active.

General Motors-Pontiac Assembly Plant (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the SPILLS database for a release on December 3, 2007. According to the database, a rinse line for the painting process sprang a leak and the spill entered the storm sewer and into the retention pond. Leak is RO-H2O with Elpo-paint process particles.

An unidentified facility (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the SPILLS database for a release on May 6, 2005. According to the database, the overfill of a diesel tank released 25 to 50 gallons of fuel onto the ground.

General Motors Corporation, Pontiac Assembly Center (the Site) is listed at 2100 South Opdyke Road in Pontiac, Michigan. The facility is listed on the AIRS database with State Registration Number B4031 for the year 2002.

4.4.2 Federal Environmental Record Sources

EDR identified thirteen facilities within the applicable radius for the Federal databases searched. The databases identified include: RCRA-LQG, RCRA-CESQG, RCRA-TSDF, US INST CONTROLS, RCRA-NonGen, TRIS, RCRA-SQG, and BEA. Information in this section was obtained from EDR.

Motown Motion Pictures LLC is listed at 1999 Centerpoint Parkway, less than 0.125 mile north of the Site. The facility is listed on the Baseline Environmental Assessment (BEA) database, with a BEA number of 4183 in the category of different hazardous substance(s).

Mobil Oil Corporation is listed at 1501 Opdyke Road, less than 0.125 mile east of the Site. The facility is listed on the RCRA-NonGen and FINDS databases with EPA ID MID985610427 as not a generator of hazardous waste.

Irvin Automotive Products is listed at 2600 Centerpoint Parkway, less than 0.125 mile west of the Site. The facility is listed on the RCRA-CESQG database. The facility is listed as a conditionally exempt small quantity generator of RCRA hazardous waste with EPA identification number MIK278245733.

Jackson Automotive Group is listed at 2800 Centerpoint Parkway, less than 0.125 mile west of the Site. The facility is listed on the RCRA-CESQG and FINDS database. The facility is listed as a conditionally exempt small quantity generator of hazardous waste with EPA ID MIR000034868.

B H Town & Country Cleaners is listed at 1607 South Opdyke Road, less than 0.125 mile northeast of the Site. The facility is listed on the DRYCLEANERS database with Facility ID 6300175. The last license was issued in 2009 with Number 9063. The facility is listed as a commercial dry to dry facility and is listed as in compliance. The facility is also listed on the RCRA-CESQG and FINDS databases. The facility is listed as a conditionally exempt small quantity generator of hazardous waste with EPA ID MID985657865.

Mobil Station #03-M5G (Former) is listed at 1501 South Opdyke Road, between 0.125 and 0.25 mile east of the Site. The facility is listed on the BEA database with BEA Number 3371. The category is listed as same hazardous substances.

KMART Corporation is listed at 975 South Opdyke Road, between 0.125 and 0.25 mile east-northeast of the Site. The facility is listed on the RCRA-NonGen and FINDS databases. The facility is listed as not a generator of hazardous waste with EPA ID MID137378915.

Swinters SVC CTR is listed at 807 South Boulevard, between 0.125 mile and 0.25 mile north of the Site. The facility is listed on the RCRA-NonGen and FINDS databases. The facility is listed as not a generator of RCRA hazardous waste with EPA identification number MID985645639.

South Boulevard Commercial Building is listed at 655 South Boulevard East, between 0.25 and 0.5 mile northwest of the Site. The facility is listed on the BEA database with BEA number 3684 and in the category of same hazardous substance(s).

Office Building is listed at 585 South Boulevard East, between 0.25 mile and 0.5 mile west-northwest of the Site. The facility is listed on the BEA database with BEA number 3763 and in the category of same hazardous substance(s).

Auburn Pontiac is listed at 500 South Opdyke Road, between 0.25 mile and 0.5 mile north-northeast of the Site. The facility is listed on the RCRA-SQG and FINDS databases. The facility is listed as a small quantity generator of hazardous waste with EPA ID MID006958698.

GMC Truck & Coach Division Pontiac East is listed at 660 South Boulevard East, between 0.25 and 0.5 mile west of the Site. The facility is listed on the RCRA-TSDF, CERC-NFRAP, CORRACTS, RCRA-LQG, US INST CONTROL, TRIS, and FINDS databases. The facility is listed as a RCRA-TSDF facility. The facility has a record of 25 violations. The violations consisted of air emission standards, generator requirements, LDR requirements, and TSD requirements. The CERC-NFRAP database indicates that no further remedial action is planned after discovery and preliminary assessment was completed. All violations were corrected except for the two air emission standards violations. The CORRACTS (corrective action report) listing states that the EPA identification number for the facility is MID005356902. The facility is initially listed on the CORRACTS database dated December 1, 1991, as being a facility or area that was assigned a low corrective action priority. The most current CORRACTS database listing action s decision on petition for no further action dated December 19, 2006. The facility is a large quantity generator of hazardous waste with EPA identification number MID005356902. The facility is listed on the US INST CONTROL database with an event code CA772PR and dated April 11, 2007.

GMC Truck & Coach Division Pontiac East is listed at 660 South Boulevard East, between 0.25 and 0.5 mile west of the Site. The facility is listed on the MANIFEST database. The MANIFEST database identifies Non-listed Ignitable Waste (D001), Unknown Waste (F001), PCB Oil (B001), and Mercury Waste (D009) were generated at the facility and transported to off-site TSD facilities. The facility is listed on the SHWS database. The facility ID is listed as 63000048 and the facility status is listed as inactive-no actions taken to address contamination. The facility is listed on the MLTS database. The facility License Number is listed as 21-11448-04.

Based on the inferred groundwater gradient and flow direction at the Site, it appears none of the identified properties on the federal and/or state regulatory databases within a 1/8 of mile of the Site present an environmental concern. A compilation of Federal database listings is provided in the EDR Radius Map Report provided in Appendix C.

4.4.3 State and Tribal Environmental Record Sources

EDR identified ten facilities within the applicable radius for the State and Tribal databases searched. The databases identified include: MANIFEST, UST, LUST, and SHWS. Information in this section was obtained from EDR.

DET Edison Opdyke Service Center is listed at 1670 Opdyke Road, less than 0.125 mile north-northeast of the Site. The facility is listed on the UST database with Facility ID 11573. The facility is listed as having two 6,000-gallon USTs, one containing gasoline the other containing diesel, installed at the facility on May 2, 1972 and removed from the ground on April 4, 1992.

Jerry Armstrongs Inc. is listed at 1500 South Opdyke Road, less than 0.125 mile north of the Site. The facility is listed on the UST database with Facility ID 38784. The facility is listed as having one 15,000-gallon gasoline UST, one 12,000-gallon gasoline UST, and one 12,000-gallon diesel UST installed on October 27, 1994 and currently in use.

Irvin Automotive Products is listed at 2600 Centerpoint Parkway, less than 0.125 mile west of the Site. The facility is listed on the MANIFEST database. The MANIFEST database identifies non-reported waste is generated at the facility and transported to off-site TSD facilities.

South Boulevard & Updyke Station Inc. is listed at 1501 South Opdyke Road, between 0.125 and 0.25 mile east of the Site. The facility is listed on the LUST and UST databases with Facility ID 16713. A release of gasoline (Leak No. C-0224-04) was reported on June 3, 2004 and is listed as open. In addition, a release of an unknown substance (Leak No. C-1595-91) was reported on August 5, 1991 and was closed on May 17, 1996. One 12,000-gallon gasoline UST was installed on October 1, 1985 and is currently in use. One 10,000-gallon gasoline UST, one 1,000-gallon used oil UST, and one 6,000-gallon gasoline UST were installed on July 1, 1983 and are currently in use. One 8,000-gallon gasoline UST was installed on April 22, 1983 and was removed from the ground on September 28, 1990.

One 550-gallon used oil UST was installed on April 21, 1968 and was removed from the ground on August 2, 1991. The facility is also listed on the AUL database with Reference Number RC-RRD-213-07-066. The facility is listed in the Part 213 program under the lead of the Storage Tank Division.

KMART #4323 is listed at 975 South Opdyke Road, between 0.125 and 0.25 mile east-northeast of the Site. The facility is listed on the LUST and UST databases with Facility ID 747. A release of an unreported substance (Leak No. C-2420-90) was reported on November 16, 1990 and was closed on September 8, 1997. One 1,000-gallon used oil UST was installed on April 9, 1971 and was removed from the ground on February 16, 1990.

Water and Sewer is listed at 522 South Opdyke Road, between 0.25 and 0.5 mile north-northeast of the Site. The facility is listed on the LUST and UST databases with Facility ID 14732. A release of an unknown substance (Leak No. C-0281-99) was reported on March 18, 1999 and was closed on February 7, 2002. One 5,000-gallon gasoline UST was installed on March 7, 1963 and was removed from the ground on August 24, 1989. One 1,500-gallon gasoline UST was installed on January 1, 1989 and was removed from the ground on April 1, 1999. One 1,500-gallon gasoline UST was installed on March 7, 1963 and was removed from the ground on April 1, 1999. One 2,000-gallon gasoline UST was installed on March 6, 1985 and was removed from the ground on April 1, 1999.

Auburn Pontiac is listed at 500 South Opdyke Road, between 0.25 mile and 0.5 mile north-northeast of the Site. The facility is listed on the LUST and UST databases with Facility ID 8058. A release of an unreported substance (Leak No. C-1184-90) was reported on October 1, 1992 and was closed on October 29, 1993. In addition, a release of an unknown substance (Leak No. C-1703-92) was reported on October 1, 1992 and was closed on October 29, 1993. One 550-gallon automatic transmission fluid UST, one 2,000-gallon motor oil UST, and one 500-gallon used oil UST were installed on April 1, 1976 and were removed from the ground on November 1, 1992. One 8,000-gallon gasoline UST was installed on April 1, 1976 and was removed from the ground on September 1, 1990.

Moote Electrical Inc. is listed at 490 South Opdyke Road, between 0.25 mile and 0.5 mile north-northeast of the Site. The facility is listed on the LUST database with Facility ID 9163. A release of an unknown substance (Leak No. C-2305-91) was reported on October 29, 1991 and was closed on May 25, 1993.

GM - Pontiac Centerpoint Campus - West Engineering is listed at 660 South Boulevard East, between 0.25 mile and 0.5 mile west of the Site. The facility is listed on the LUST database. The facility ID number is 18277. The facility is listed as having four releases with a status of closed. The facility had a release on October 16 and October 22, 1991 of unknown substances and the releases were closed on March 17, 1995 and April 27, 1994 respectively. The facility also had a release on September 4 of gasoline and November 5, 1992 of a substance that is listed as other and the releases were closed on December 28, 1993 and April 29, 1996 respectively. The facility is listed as having seven releases with a status of open. The facility had a release of unknown substance on January 1, 1985. The facility also had a release on February 2, May 1, and August 22, 1990 of a substance that was not reported. The facility had a release on June 21 and September 5, 1991 of an unknown substance. The most recent release occurred on July 20, 2005 and the substance was reported as gasoline.

GM Truck and Bus Pontiac Central is listed at 660 South Boulevard East, between 0.25 mile and 0.5 mile west of the Site. The facility is listed on the SHWS database with Facility ID 63000048. The status is listed as inactive with no actions taken to address the contamination.

Based on the inferred groundwater gradient and flow direction at the Site, it appears none of the identified properties on the federal and/or state regulatory databases outside of the subject property included above is in a 1/8 of mile represent an environmental concern. The environmental concerns identified during the course of this investigation are discussed in detail in Section 7.0.

A compilation of State and Tribal database listings is provided in the EDR Radius Map Report provided in Appendix C.

4.4.4 Orphan Summary

ARCADIS reviewed the “Orphan Summary” section of the EDR Radius Map report, which is a list of sites that could not be properly located due to inadequate or incorrect information provided by the reporting agency. Two of the 31 facilities listed in the Orphan summary appear to be located within the Approximate Minimum Search Distance for the above-referenced Federal and State regulatory databases.

US Army Pontiac Storage Facility is listed at 871 South Boulevard, between 0.125 mile and 0.5 mile west of the Site. The facility is listed on the CERC-NFRAP database.

Unit 52 Centerpoint Business Campus is listed at Unit 52 Centerpoint Business Campus, between 0.125 mile and 0.5 mile west of the Site. The facility is listed on the BEA database. BEA number is listed as 3491 and the category is listed as no hazardous substance(s).

4.5 Additional Environmental Records Sources

4.5.1 Fire Department

ARCADIS submitted a FOIA request to the City of Pontiac Fire Department on February 23, 2010. A response was not received by the time this report was drafted. If a report is received with findings that alter those in this report, an addendum will be prepared.

4.5.2 Health Department

ARCADIS contacted the Oakland County Health Department on February 22, 2010 requesting to review all well, septic tank, drinking water, and other environmental records. The Health Department responded on February 22, 2010 stating that they did not keep such environmental records.

4.5.3 Michigan Department of Environmental Quality

ARCADIS submitted a FOIA request on February 25, 2010 to the MDEQ (now known as MDNRE) to obtain all available records regarding LUST, UST, and Part 201 documents for the Site. Documentation from the MDEQ (now known as MDNRE) was not received at the time this report was drafted.

Additionally, ARCADIS searched the MDEQ (now known as MDNRE) - Underground and Leaking Underground Storage Tank databases on the Internet. The Site was listed on the Underground Storage Tank database as having 14 USTs. One Leak ID was listed on the Leaking underground Storage Tank database. Details regarding the release are described in Section 4.1.1.

The tanks in the following table were listed on the Underground Storage Tank database.

Tank ID	Capacity (gallons)	Tank Status	Description	Contents	Installation Date
1	24,000	Removed from Ground	Asphalt Coated or Bare Steel	Axle Lube	4/8/1971
2	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Power Steering Oil	4/8/1971
3	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Engine Oil	4/8/1971
4	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Hazardous Substance	4/8/1971
5	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Manual Transmission Fluid	4/8/1971

Tank ID	Capacity (gallons)	Tank Status	Description	Contents	Installation Date
6	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Diesel	4/8/1971
7	10,000	Removed from Ground	Fiberglass Reinforced Plastic, Lined Interior, Tank Repaired	Gasoline	4/8/1971
8	10,000	Removed from Ground	Fiberglass Reinforced Plastic	Gasoline	4/8/1971
9	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Manual Transmission Fluid	4/8/1971
10	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Automatic Transmission Fluid (ATF)	4/8/1971
11	1,500	Removed from Ground	Asphalt Coated or Bare Steel	Spill Tank, Hazardous Substance 1	4/7/1985
12	15,000	Currently In Use	Cathodically Protected Steel, Double Walled, Epoxy Coated Steel	Diesel	6/1/1990
13	15,000	Currently In Use	Cathodically Protected Steel, Double Walled, Epoxy Coated Steel	Gasoline	6/1/1990
14	15,000	Currently In Use	Cathodically Protected Steel, Double Walled, Epoxy Coated Steel	Gasoline	6/1/1990

The following table lists the status of leak identification numbers listed on the Leaking Underground Storage Tank database for the Site

Leak ID	Discovery Date	Substance Released	Release Status	Closed Date	Closure Type
C-2741-91	10/11/1991	Unknown	Closed	9/18/1995	Type B Evaluation
C-0226-05	5/6/2005	Diesel	Closed	7/29/2008	Tier I Evaluation

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Ms. Elizabeth Carson and Ms. Natalie Gillman of ARCADIS (ARCADIS) visited the Site on February 11, 2010. In addition, Ms. Liz Marsh and Ms. Natalie Gillman of ARCADIS (ARCADIS) visited the Site on February 16, 2010. Mr. Jim Clark, Site Manager with Motors Liquidation Company accompanied Ms. Carson, Ms. Gillman and Ms. Marsh during the Site visit. The weather at the time of ARCADIS' investigations was cool and sunny, with a temperature of approximately 30 degrees Fahrenheit. ARCADIS inspected accessible areas of the Site buildings and the exterior grounds.

ARCADIS had no access limitations to the Site, however, visual inspection limitations were encountered during the reconnaissance activities since approximately 8 inches of snow was present on the ground at the Site.

5.2 Current Site Use

The Site currently consists of a 3.4 million-square foot building, a wastewater treatment plant, asphalt-paved parking areas, and vegetated landscaped areas. The Site is currently unoccupied offices and supporting areas.

5.3 Site Observations

5.3.1 Underground Storage Tanks (USTs)

ARCADIS observed evidence of three active USTs located west of the plant. According to Site personnel, each UST has a capacity of 15,000 gallons. Two tanks contain gasoline product while the third contains diesel fuel product. Approximately 300 gallons of product is estimated to remain in each tank. The tanks are listed as currently in use on the MDNRE database. No information regarding sampling in the vicinity of the three USTs was available. Therefore the two gasoline and one diesel UST at the Site represent RECs.

Historically, eleven USTs were located on the western side of the Site associated with the plant. These USTs have been removed from the ground according to the MDEQ (now known as MDNRE) Underground Storage Tank database. Refer to Section 4.1.1 for a discussion of the remedial activities associated with the former tank farm areas and Section 4.5.3 for a complete table of the USTs formerly located at the Site.

5.3.2 Aboveground Storage Tanks (ASTs)

ARCADIS observed ASTs at the Site. The ASTs included the following:

Capacity (gallons)	Contents / Use	Location	Secondary Containment
10,000	Glycol	Plant Tank Farm	Concrete dyke
10,000	Automatic Transmission Fluid	Plant Tank Farm	Concrete dyke
10,000	Axle Lube	Plant Tank Farm	Concrete dyke
10,000	Windshield Washer Fluid	Plant Tank Farm	Concrete dyke
10,000	Manual Transmission Fluid	Plant Tank Farm	Concrete dyke
10,000	Power Steering Fluid	Plant Tank Farm	Concrete dyke
10,000	Engine Oil	Plant Tank Farm	Concrete dyke
100,000	Water	Fire Suppression System	None
100,000	Water	Fire Suppression System	None
500	Ferrous Chloride	WWTP	None
500	Caustic	WWTP	None
80,000	Cleaner Waste Holding Tank	WWTP Tank Farm	None
80,000	Cleaner Waste Holding Tank	WWTP Tank Farm	None
80,000	Cleaner Waste Holding Tank	WWTP Tank Farm	None
80,000	Cleaner Waste Holding Tank	WWTP Tank Farm	None
80,000	Cleaner Waste Holding Tank	WWTP Tank Farm	None

The ASTs in the plant tank farm and the WWTP tank farm were observed within secondary containment. The water ASTs were not located within secondary containment. The ASTs located indoors at the WWTP were within building walls. No evidence of staining and/or leakage was noted on the ASTs or on the surrounding surfaces. However, over 1 foot of snow impeded visual observation of the bottom of the tanks and the underlying concrete. No other ASTs were noted during the Site reconnaissance activities.

5.3.3 Hazardous Substance and Petroleum Use

ARCADIS did not observe hazardous substances at the Site. Petroleum products were observed at the Site. ASTs containing petroleum products are listed in Section 5.3.2. One 116-gallon AST containing diesel fuel was observed. Nine underground hydraulic lifts were observed in the body shop of the plant. The hydraulic lifts appeared to be in good condition. There were also four inactive elevators at the Site, one passenger and three freight elevators. These were taken out of service in September 2009. The equipment associated with the elevators was observed to be in good condition with no evidence of staining or leakage observed on the equipment or on the surrounding concrete floor surface. Additional hydraulic equipment including robots and conveyors were observed throughout the plant. The equipment was observed to be in good condition with no evidence of staining or leakage on the equipment or the surrounding concrete floor surfaces.

5.3.4 Unlabeled Drums/Containers

ARCADIS did not observe unlabeled drums or containers at the Site. Three chemical sequestering areas were observed at the plant, two in the body shop and one in the paint shop. The sequestered chemicals included, but were not limited to, motor oils, antifreeze, transmission fluids, lube oils, soaps, and windshield washer fluid and were stored in both small containers and 55-gallon drums. The chemical material storage areas were noted to be in good condition with no evidence of staining and/or leakage on the containers or on the surrounding floor surface.

5.3.5 Stained Soil or Pavement

ARCADIS did not observe any staining at the exterior of the Site; however, observations of the ground and paved surfaces were limited due to snow cover.

5.3.6 Stains or Corrosion

There was no significant staining observed throughout the Site buildings. The concrete floors were observed in good condition with no seams or cracks.

5.3.7 Stressed Vegetation

ARCADIS did not observe evidence of stressed vegetation. Observations of vegetated covered areas were limited due to snow accumulation.

5.3.8 Polychlorinated Biphenyls (PCBs)

ARCADIS did not observe potential PCB containing equipment at the Site. According to documentation provided to the Site, all transformers at the Site were replaced with non-PCB containing transformers between 1995 and 1999.

5.3.9 Solid Waste/Dumping

Although the Site is closed, minimal solid waste is generated on-site associated with property up-keep. The solid waste generated is collected in a roll-off and picked up by Waste Management for proper disposal.

5.3.10 Site Drainage

Stormwater at the Site flows to storm drains located in the parking lots. The storm drains flow to two retention ponds, one located on the southwestern portion of the Site and one located north of the Site. When occupied over time, parking lot areas represent a common source of automotive fluids. Since the retention ponds receive drainage (a.k.a. runoff) from the parking lots, the potential for impact exists. Therefore, the retention pond located on the southwestern portion of the Site represents a REC.

5.3.11 Pits, Ponds, Lagoons and Pools of Liquid

ARCADIS observed a retention pond located on the southwestern portion of the Site. ARCADIS did not observe any additional pits, ponds, lagoons or pools of liquid on the Site.

5.3.12 Wastewater

Wastewater discharged to the municipal sanitary sewer system includes sanitary wastewater.

5.3.13 Wells

ARCADIS did not observe dry wells, irrigation wells, injection wells, monitoring wells or abandoned wells at the Site. However, observations of ground surface areas were limited due to snow accumulation.

5.3.14 Septic Systems

ARCADIS did not observe evidence of septic systems or cesspools at the Site.

5.3.15 Odors

ARCADIS did not note readily noticeable strong, pungent, or noxious odors at the time of the site visit.

5.3.16 Other Observations

No other significant Site observations were noted at the time of the site visit.

6.0 INTERVIEWS

6.1 Interview with Owner/Key Site Manager

ARCADIS provided a questionnaire to Mr. Jim Clark, Site Manager for MLC. The completed questionnaire has not yet been received.

6.2 Site Occupants

The Site was unoccupied.

6.3 Interviews with Local Regulatory Agencies

Research conducted at local regulatory offices has been summarized in Sections 4.5. No additional interviews with local regulatory agencies were conducted.

6.4 Interviews with Others

ARCADIS conducted interviews with Site Manager, Mr. Jim Clark and the Site Senior Environmental Scientist, Ms. Molly Dwinnells. Information obtained during these interviews is included in the applicable sections of this report.

7.0 FINDINGS/OPINION

This section identifies known or suspect environmental concerns, historical environmental concerns, and *de minimis* conditions obtained during the ESA.

7.1 Known or Suspect Environmental Concerns

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 2100 S. Opdyke, City of Pontiac (Oakland County), Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report.

This assessment has revealed the following RECs associated with the Site:

- Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the former Pontiac Assembly Center, the operations had the potential to impact areas of the Site which have not been previously investigated due to the presence of building foundations and/or utility corridors.
- ARCADIS' review of historical aerial photographs, topographic maps, and the site visit indicate that railroad tracks are located on the south and southwest portion of the Site. Various unknown materials were transported on the tracks and potential impacts from releases are unknown. Also, according to documentation from the Site, a release of oil to the pavement at the rail shipping yard occurred on May 12, 2004. The release was cleaned immediately and the source of the release was unknown. Based on the minimal amount of oil spilled and the containment of the release to the rail shipping area, the release was not reported to any agency. In addition, railroad ties were typically preserved with creosote, which over time has the potential for impacting the surrounding surfaces.
- The properties surrounding the Site to the west were historically part of the GM Centerpoint campus that at one time included more than 60 manufacturing buildings on more than 400 acres. Industrial operations at these properties began in 1927 and were contiguous with the on-site production of medium and heavy duty trucks and buses. According to the EDR reports several on-going environmental investigations are occurring on the surrounding Centerpoint Campus properties that involved both the MDEQ (now known as MDNRE) and the US EPA oversight including a leaking underground storage tank (LUST) investigation and CORRACTS (corrective action report). Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the surrounding Centerpoint Campus, there is potential for impact to areas of the Site which have not been previously investigated due to the presence of building foundations and/or utility corridors.

- ARCADIS observed evidence of three active USTs located west of the plant. According to Site personnel the USTs are 15,000-gallons each in capacity and two contain gasoline while the third contains diesel. No information regarding sampling in the vicinity of the three USTs was available.
- Stormwater at the Site flows to storm drains located in the parking lots. The storm drains flow to two retention ponds, one located on the southwestern portion of the Site and one located north of the Site. According to documentation from the Site a line on the cleaner waste tank system of the Waste Water Treatment Plant broke and the spilled liquids entered the south retention pond on January 16, 1991. According to the document, all spilled material was captured at the pond. No additional information was available. In addition, when occupied over time, parking lot areas represent a common source of automotive fluids. Since the retention ponds receive drainage (a.k.a. runoff) from the parking lots and have previously received releases from the Waste Water Treatment Plant, the potential for impact exists.
- The facility is listed on the ERNS database. The Site ID is listed as 99619226. The facility is listed as having a spill of 50 gallons of unleaded gasoline on January 9, 1999. The database indicates front end loader pushed snow into a 2.5 inch pipe within the plant. Snow was scraped up and put into drums and the release was secured.
- The facility is listed on the PCB TRANSFORMER database. The transformer location ID is listed as 1343. No additional information is provided in the database.
- The facility is listed on the AUL database as part of Program Part 213 with a pending status and MDEQ Reference No. RC-RRD-213-09-034.
- The facility is listed on the SPILLS database. The facility had a release on December 20, 2006 in which a contractor's roll-off truck hit an overhead trestle which caused a rupture to a line. Fifty gallons of power steering fluid spilled onto concrete but did get to a soiled area. The release did not reach the sewer.
- The facility is listed on the ERNS database with Site ID 96516826. A release was reported on December 2, 1996. A heavy gasoline odor was observed in the treatment plant; however, no gasoline releases were visible anywhere.

- The facility is listed on the SPILLS database for a release on December 3, 2007. According to the database, a rinse line for the painting process sprang a leak and the spill entered the storm sewer and into the retention pond. Leak is RO-H2O with Elpo-paint process particles. According to documentation provided by the Site, the MDEQ (now known as MDNRE) was notified of the spill on December 3, the leak was plugged on December 3, and the damaged pipe was replaced on December 8, 2007. A water sample was collected from the retention pond which receives storm water drainage from the Site, and minimal amounts of barium, chromium, nickel, silver, and zinc were found below drinking water criteria. Plasticizer was found at 0.01 mg/L versus the drinking water standard of 0.006 mg/L. No letter of closure from the MDEQ was included. However, electronic correspondence with the MDEQ implied no further action appeared necessary, but that Oakland County should be contacted for notification of the spill.
- The facility is listed on the SPILLS database for a release on May 6, 2005. According to the database, the overfill of a diesel tank released 25 to 50 gallons of fuel onto the ground.
- Documentation from the Site indicated that on August 21, 1985, a release of 500 gallons of wastewater overflowed from a tank located at the Waste Water Treatment Plant. According to the documentation the wastewater entered a storm drain which discharges to a retention pond. The information was unclear as to whether this retention pond was located on the Site. However, water samples were collected from the pond and from various points downstream of the pond and analyzed for hexavalent chrome. All water samples were non-detect for the analyte

7.2 Historical Recognized Environmental Conditions

This assessment revealed the following historical RECs (HRECs) associated with the site.

- The Site is listed on the LUST database with Facility ID 765. A release of diesel (Leak No. C-0226-05) was reported on May 6, 2005 and was closed on July 29, 2008. A release of an unknown substance (Leak C-2741-91) was reported on October 11, 1991 and was closed on September 18, 1995. One 24,000-gallon axle lube UST, one 12,000-gallon power steering oil UST, one 12,000-gallon engine oil UST, one 12,000-gallon hazardous substance UST, two 12,000-gallon manual transmission USTs, one 12,000-gallon diesel UST, two 10,000-gallon gasoline USTs, and one 12,000-gallon automatic transmission fluid UST were installed on April 8, 1971 and were removed from the ground on September 9, 1991. One 1,500-gallon spill tank/hazardous substance 1 UST was installed on April 7, 1985 and was removed from the ground on May 7, 1991.

- During previous investigations at the Site and on the surrounding GM Centerpoint Campus (1991-1995), GM and the U.S. EPA identified 84 Solid Waste Management Units (SWMUs)/Areas of Interest (AOIs) on the entire Campus, 50 were specifically on the Site. Most of the AOIs/SWMUs were evaluated and investigated during the Site redevelopment between 1991 and 1995. As of 1998, 19 of these AOIs and SWMUs still required some level of corrective measures, nine of which are located on the Site. Subsequently, GM and the EPA Region 5 Office entered in to a Consent Order, agreeing to terms of the corrective measures of the 19 SWMUs/AOIs (listed in the table above). The recent Consent Order was effective May 24, 2007. Because the Site continues to be subject to RCRA CA and a Restrictive Covenant, the historical operations and releases would be considered a PAOC. The nine remaining AOI's include:
 - AOI #3/#74 - The former Container Storage Area: is located on the southwest portion of the Site. The former Container Storage Area consisted of a concrete containment pad measuring approximately 50 feet wide by 100 feet long. The area was used for the temporary accumulation (less than 90 days) of 55-gallon drums containing waste solvents and sludges, as well as non-hazardous materials. In December 1998 CRA supervised the installation of 6 borings as part of the RFI. No visual staining was observed. Several constituents were detected in soil samples including 10 SVOCs, one PCB, 23 metals, and total cyanide at concentrations at or above the MDL. One monitoring well was installed at the area in August 2000. The groundwater samples identified 14 metals and 13 dissolved metals at or above the MDL. No detected concentrations were higher than the MDEQ (now MDNRE) generic industrial screening criteria in 2000. Therefore, no remedial action was required. The former Container Storage Area corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction to prevent shallow ground water from being used as drinking water.
 - AOI #29/#66 - The Wastewater Treatment Plant: is located on the southwest portion of the Site. The Wastewater Treatment Plant consists of 20 ASTs. The wastewater tanks include tanks for the treatment of acid and general wastes, clarifies, an equalization tank, a cleaner waste tank, and an oil skimmer tank. In December 1998, CRA supervised the installation of eight borings as part of the RFI. Several constituents were detected in soil samples including five VOCs, 17 SVOCs, two PCBs, 23 metals, and sulfide at concentrations at or above the MDL. No concentrations were higher than the applicable MDEQ generic industrial screening criteria (2000). Therefore, no remedial action was required. The Wastewater Treatment Plant corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater being used for drinking water.

- AOI #31/#54 - The former Surface Impoundment: is located on the southwest portion of the Site. The former Surface Impoundment was used to temporarily store wastewater during a period of WWTP repair. Since 1995, redevelopment activities in the vicinity of the area have included the construction of the South Access Road and grading and landscaping during development of the Centerpoint Business Campus. In December 1998, CRA supervised the installation of six borings as part of the RFI. Several constituents were detected in soil samples including on VOC, 11 SVOCs, one PCB, 23 metals, and total cyanide. One monitoring well was installed at this area in August 2000. The groundwater sample collected from this monitoring well identified 3 BOCs, 12 total metals, and 9 dissolved metals at concentrations at or above the MDL. Detections of lead and arsenic in soil were higher than the MDEQ (now known as MDNRE) generic industrial screening criteria (2000). No other constituents were above the industrial screening criteria. The site-specific risk evaluation determined that the concentrations of arsenic and lead did not pose a significant risk. The former Surface Impoundment corrective measures included institutional controls to restrict land use commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.
- AOI #69 - The Container Storage Area: is located on the southwest portion of the Site. The Container Storage Area consists of a 12,543 square foot, 8 inch thick epoxy-coated concrete waste management pad that was constructed in 1980. The western half of the area was a covered hazardous waste drum storage area and the eastern half operated as an uncovered non-hazardous waste bulking area. Closure activities included decontamination, soil sampling, and remedial excavation of approximately 35 cubic yards of soil north of the bulking pad retaining wall. Soil analytical data from the excavation were compared to the Michigan Part 201 generic residential and industrial criteria, and no concentrations exceeded the criteria. The activities satisfied the requirements of the waste management pad closure and the MDNR (now known as MDNRE) issued a letter dated June 27, 1991 for the approval of the closure. The container storage area corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater in an unconfined aquifer being used for drinking water.
- AOI #71 - The Burn Pile Area: is located on the southwestern portion of the Site. CRA conducted investigations at the area from August 13, 2004 until July 25, 2005. The investigation consisted of the advancement of 12 soil borings, installation of five permanent monitoring wells and seven temporary monitoring wells, and excavation of ten test pits. A small amount of LNAPL was encountered in a monitoring well. Consequently a LNAPL recovery program was initiated. In August 2004 approximately 325 milliliters of LNAPL were recovered. The LNAPL was submitted for chemical analysis. LNAPL presence checks were subsequently conducted at monitoring well in August 2004, September 2004, October 2004, November 2004, and July 2005.

Trace amounts of LNAPL were identified in September, October and November 2004; however, the amounts were insufficient to recover. In October 1994, approximately 6,500 cubic yards of potentially affected soil was stockpiled and transported off-site. During the excavation, an old clay sewer was encountered. The line and associated bedding were filled with water. Approximately 30,000-gallons of water was pumped into tanks, sampled, and treated at the WWTP. Further investigation was conducted in March 2006 to determine the extent of contamination and to determine the appropriate Corrective measures. The initial results of the investigation indicate the LNAPL has been delineated and that no other major sources of significant contamination exist at this AOI. A notice of off-site migration was filed with the MDEQ (now known as MDNRE). There are two community drinking water supply wells south of the Burn Pile. These wells are installed at a depth of approximately 220 feet bgl. Analytical data retrieved for these wells from December 2000 to April 2005 indicate that none of the constituents that have been identified at the Burn Pile have concentrations that exceed Part 201 generic residential DWC. The Burn Pile corrective measures included institutional controls with long-term monitoring and passive recovery of LNAPL, hydraulic containment, engineered soil cover, and excavation and off-site disposal.

- AOI #2/#75 - The former East Tank Farm: is located on the western portion of the Site. The former East Tank Farm area was identified as a former hazardous waste storage area of approximately 4,500 square feet, housing two former vertical 10,000-gallon ignitable waste collection tanks. The former waste storage area initially received drummed waste such as chlorinated solvents, waste paints, and waste solvents. These drummed wastes were subsequently removed and the area was used as a secondary containment for the two storage tanks. These storage tanks were used for the storage of waste paint and waste solvent. Closure activities were completed between October 4, 1989 and October 6, 1989. Excavation and disposal of 780 cubic yards of contaminated soils was performed between February 1990 and March 1990. Soil sample analytical data from the excavation were all below Cleanup criteria; therefore, no further action was necessary. The MDNR (now known as MDNRE) approved the closure in a letter dated October 30, 1990. The former East Tank Farm corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.

- AOI #82 - The former Paint Mix Room Retention Tank: is located on the southern portion of the Site. The former Paint Mix Room Retention Tank was utilized as a secondary containment tank to collect water from the paint mix room's fire suppression deluge system. Removal activities of the former paint mix room retention tank by ABB Environmental Services, Inc. commenced on December 6, 1989 with the removal of a concrete pad which had overlaid the former paint mix room retention tank. During the excavation of the tank area, solvent odors were identified, and soil sampling from the excavation and surrounding area was performed. Analysis of the soils identified detectable levels of ethyl benzene, toluene, xylene, and methyl ethyl ketone, primarily in the upper 2 to 4 feet, which was suspected to be from overfilling the tank. Approximately 465 tons of soils were excavated and disposed off-site. The soil excavation activities commenced on October 3, 1990 and were completed in five phases ending on June 13, 1991. The report of the remediation concluded that the cleanup of the tank area met the then current Michigan Act 307 Type B cleanup criteria. The data was also compared to the Michigan Part 201 generic residential and industrial criteria, and no concentrations exceeded the criteria. Therefore, no further actions are required. Former Paint Mix Room Retention Tank corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.
- AOI #83 – Dock 65: is located on the western portion of the Site. In July 1994, odors of paint solvent were detected in the excavated soils while in the process of installing concrete footers for a new process line. A soil and groundwater investigation was undertaken by ABB that documented elevated levels of VOCs in the area. Following delineation of the extent of contamination, approximately 600 cubic yards of impacted soils were removed during the first round of excavation. Some additional remedial excavation was conducted following the first round of verification sampling. The area was remediated to the then current Michigan Act 307 Type B criteria, and no additional activities were warranted. The soil data were also compared to the Michigan Part 201 generic residential and industrial criteria, and no concentrations exceeded these criteria. Dock 65 corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.

- AOI #84 - The former Tank Farm Area: is located on the western portion of the Site. The former Tank Farm Area consisted of ten USTs of varying sizes ranging from 10,000 to 24,000-gallons each. These tanks were utilized for the storage of various automotive fluids including axle lubricant, power steering fluid, engine oil, glycol, manual and automatic transmission fluid, diesel fuel, and gasoline. According to documentation from the Site, a release of 150 gallons of gasoline leaked onto the ground within a containment area from a fueling station at the tank farm. All the material was recovered and transported off the Site. On October 11, 1991, a confirmed release was reported to the State during UST excavation and removal activities (Release Number C-2741-91). Remediation of the former Tank Farm Area commenced on October 1991 and was completed by November 1994. A total of 7,300 cubic yards of soil was excavated and disposed at a commercial landfill. Soil data were compared to the Michigan Part 201 generic residential and industrial criteria, and no concentrations exceeded these criteria. No further action was required. Closure approval of the former tank farm area was received from the MDNR (now known as MDNRE) in a letter dated September 18, 1995. Former Tank Farm Area corrective measures included institutional controls to restrict land use to commercial/industrial uses and a restriction preventing shallow groundwater from being used for drinking water.

7.3 De Minimis Conditions

De minimis environmental conditions at the Site include the following:

- No De minimis conditions were identified.

8.0 CONCLUSIONS

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 2100 S. Opdyke, City of Pontiac (Oakland County), Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report.

This assessment has revealed the following RECs associated with the Site:

- Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the former Pontiac Assembly Center, the operations had the potential to impact areas of the Site which have not been previously investigated due to the presence of building foundations and/or utility corridors.

- ARCADIS' review of historical aerial photographs, topographic maps, and the site visit indicate that railroad tracks are located on the south and southwest portion of the Site. Various unknown materials were transported on the tracks and potential impacts from releases are unknown. Also, according to documentation from the Site, a release of oil to the pavement at the rail shipping yard occurred on May 12, 2004. The release was cleaned immediately and the source of the release was unknown. Based on the minimal amount of oil spilled and the containment of the release to the rail shipping area, the release was not reported to any agency. In addition, railroad ties were typically preserved with creosote, which over time has the potential for impacting the surrounding surfaces.
- The properties surrounding the Site to the west were historically part of the GM Centerpoint campus that at one time included more than 60 manufacturing buildings on more than 400 acres. Industrial operations at these properties began in 1927 and were contiguous with the on-site production of medium and heavy duty trucks and buses. According to the EDR reports several on-going environmental investigations are occurring on the surrounding Centerpoint Campus properties that involved both the MDEQ (now known as MDNRE) and the US EPA oversight including a leaking underground storage tank (LUST) investigation and CORRACTS (corrective action report). Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the surrounding Centerpoint Campus, there is potential for impact to areas of the Site which have not been previously investigated due to the presence of building foundations and/or utility corridors.
- ARCADIS observed evidence of three active USTs located west of the plant. According to Site personnel the each UST has a capacity of 15,000 gallons. Two tanks contain gasoline product while the third contains diesel fuel product. Approximately 300 gallons of product is estimated to remain in each tank. The tanks are listed as currently in use on the MDNRE database. No information regarding sampling in the vicinity of the three USTs was available.
- Stormwater at the Site flows to storm drains located in the parking lots. The storm drains flow to two retention ponds, one located on the southwestern portion of the Site and one located north of the Site. According to documentation from the Site a line on the cleaner waste tank system of the Waste Water Treatment Plant broke and the spilled liquids entered the south retention pond on January 16, 1991. According to the document, all spilled material was captured at the pond. No additional information was available. In addition, when occupied over time, parking lot areas represent a common source of automotive fluids. Since the retention ponds receive drainage (a.k.a. runoff) from the parking lots and have previously received releases from the Waste Water Treatment Plant, the potential for impact exists.

- The facility is listed on the ERNS database. The Site ID is listed as 99619226. The facility is listed as having a spill of 50 gallons of unleaded gasoline on January 9, 1999. The database indicates front end loader pushed snow into a 2.5 inch pipe within the plant. Snow was scraped up and put into drums and the release was secured.
- The facility is listed on the PCB TRANSFORMER database. The transformer location ID is listed as 1343. No additional information is provided in the database.
- The facility is listed on the AUL database as part of Program Part 213 with a pending status and MDEQ Reference No. RC-RRD-213-09-034.
- The facility is listed on the SPILLS database. The facility had a release on December 20, 2006 in which a contractor's roll-off truck hit an overhead trestle which caused a rupture to a line. Fifty gallons of power steering fluid spilled onto concrete but did get to a soiled area. The release did not reach the sewer.
- The facility is listed on the ERNS database with Site ID 96516826. A release was reported on December 2, 1996. A heavy gasoline odor was observed in the treatment plant; however, no gasoline releases were visible anywhere.
- The facility is listed on the SPILLS database for a release on December 3, 2007. According to the database, a rinse line for the painting process sprang a leak and the spill entered the storm sewer and into the retention pond. Leak is RO-H2O with Elpo-paint process particles. According to documentation provided by the Site, the MDEQ (now known as MDNRE) was notified of the spill on December 3, the leak was plugged on December 3, and the damaged pipe was replaced on December 8, 2007. A water sample was collected from the retention pond which receives storm water drainage from the Site, and minimal amounts of barium, chromium, nickel, silver, and zinc were found below drinking water criteria. Plasticizer was found at 0.01 mg/L versus the drinking water standard of 0.006 mg/L. No letter of closure from the MDEQ was included. However, electronic correspondence with the MDEQ implied no further action appeared necessary, but that Oakland County should be contacted for notification of the spill.
- The facility is listed on the SPILLS database for a release on May 6, 2005. According to the database, the overfill of a diesel tank released 25 to 50 gallons of fuel onto the ground.

Documentation from the Site indicated that on August 21, 1985, a release of 500 gallons of wastewater overflowed from a tank located at the Waste Water Treatment Plant. According to the documentation the wastewater entered a storm drain which discharges to a retention pond. The information was unclear as to whether this retention pond was located on the Site. However, water samples were collected from the pond and from various points downstream of the pond and analyzed for hexavalent chrome. All water samples were non-detect for the analyte.

9.0 DEVIATIONS/DATA GAPS

ARCADIS did not identify any deviations or data gaps.

10.0 ADDITIONAL SERVICES

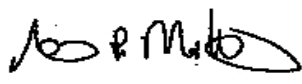
No additional services were provided as part of the Phase I ESA.

11.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 C.F.R. 312. We, have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.



Richard G. Stromberg, CPG, LSP
Principal Geologist

_For

Natalie Gillman
Environmental Scientist

12.0 REFERENCES

City of Pontiac

- Fire Department

Oakland County

- Health Department
- Commercial and Industrial Property Profile
(<http://www.oakgov.com/accessok/products/cip.html>)

State of Michigan

- Michigan Department of Natural Resources and Environment Storage Tank Unit
- Michigan Department of Natural Resources and Environment Underground Storage Tank and Leaking Underground Storage Tank Database

Reports, Plans and Other Documents Reviewed:

EDR:

- *The EDR Aerial Photo Decade Package*, Inquiry Number 2688090.5, February 2, 2010, GMVM Pontiac Assembly, 2100 South Opdyke Road, Pontiac, MI 48341.
- *The EDR Radius Map with GeoCheck*, Inquiry Number 2688090.2s, January 29, 2010, GMVM Pontiac Assembly, 2100 South Opdyke Road, Pontiac, MI 48341.
- *The EDR Sanborn Map Report*, Inquiry Number 2688090.3, January 28, 2010, GMVM Pontiac Assembly, 2100 South Opdyke Road, Pontiac, MI 48341.
- *The EDR Topographic Map Report*, Inquiry Number 2688090.4, January 29, 2010, GMVM Pontiac Assembly, 2100 South Opdyke Road, Pontiac, MI 48341.
- *The EDR City Directory Abstract*, Inquiry Number 2688090.6, February 2, 2010, GMVM Pontiac Assembly, 2100 South Opdyke Road, Pontiac, MI 48341.

Previous Environmental Reports Reviewed:

- *RCRA Facility Investigation (RFI) Report, Centerpoint Business Campus, completed by Conestoga-Rovers & Associates (CRA) dated October 21, 2005.*
- *Corrective Measures Proposal, Centerpoint Business Campus, completed by CRA dated April 21, 2006.*

- *Letter of Correspondence RE: Response to Comments and Final Decisions, issued by the Environmental Protection Agency to General Motors Corporation, dated August 3, 2006.*
- *Administrative Order on Consent in the Matter of General Motors Corporations, Pontiac Centerpoint Campus/Pontiac Assembly Plant, EPA ID#: MID005356902, USEPA Docket No. RCRA-05-2007-0009, US Environmental Protection Agency Region 5, dated May 24, 2007.*
- *Long-Term Monitoring Plan, Pontiac Centerpoint Campus, completed by CRA, dated November 23, 2007.*

Phase I Environmental Site Assessment (ESA) completed by Conestoga-Rovers & Associates (CRA) dated December 2008.

FIGURES

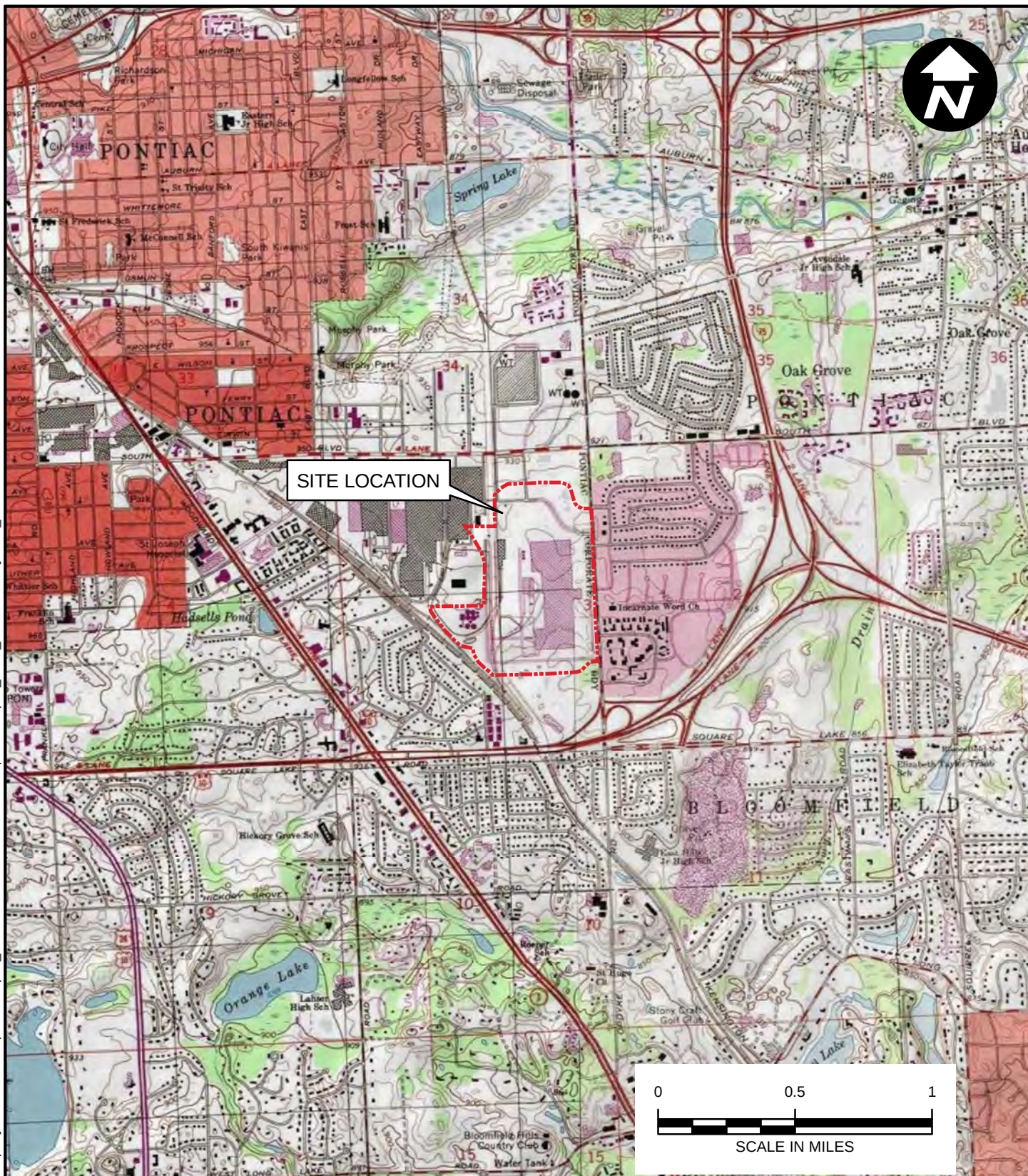
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G:\GIS\Project Files\MotorsLiquidation\Company\PontiacCenterPointCampus West\Documents\PontiacCenterPointCampus West EastAssemblyPlant SiteVicinityMap.mxd



MOTORS LIQUIDATION COMPANY, ID 1308 GMVM PONTIAC ASSEMBLY 2100 SOUTH OPDYKE ROAD PONTIAC, MI 48341	
SITE VICINITY MAP	
LFR an  ARCADIS company	FIGURE 1



PROJECT NUMBER: BND15317.0019.0001
CITY: NOV DIV/GROUP: ENV DB: PIC: PM: TM: TR:
G:\GIS\Project Files\MotorsLiquidationCompany\PontiacCenterpointCampus_West_EastAssemblyPlant_SiteLocation.mxd



MOTORS LIQUIDATION COMPANY, ID 1308
GMVM PONTIAC ASSEMBLY
2100 SOUTH OPDYKE ROAD
PONTIAC, MI 48341

USGS TOPOGRAPHIC MAP

LFR an **ARCADIS** company

FIGURE

3

APPENDIX A

User Questionnaire

Phase I Environmental Site Assessment Questionnaire

(User Provided Information Questionnaire)

Date: 2/8/10

Site Name: Pontiac Assembly Center

Your Name: Jim Clark

Site Location: 2100 S. Opdyke Road, Pontiac, MI 48341

Your Title: MLC Site Manager

Relationship to Site: ☐ Owner ☒ **Occupant** ☐ Purchaser ☐ Other

Length of Time Associated with Site: 23.5 years

Please review and complete this questionnaire which will assist LFR in completing our site assessment. If sufficient space is not provided, please complete your response on a separate sheet of paper and attach it to this questionnaire.

1. Do you have a title document prepared for the Site? ☐ Yes ☐ No

If yes, please provide a copy to LFR.

2. Are you aware of any environmental cleanup liens against the Site that are filed or recorded under federal, tribal, state or local law?

☐ Yes

☒ **No**

☐ Unknown

☐ N/A

If Yes, please explain: _____

3. Are you aware of any activity or land use limitations, such as engineering controls (for contaminant control), land use restrictions or institutional controls, that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

☐ Yes

☒ **No**

☐ Unknown

☐ N/A

If Yes, please explain: _____

4. Do you have any specialized knowledge or experience related to the Site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the Site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

☐ Yes ☐ No ☐ Unknown ☐ N/A

If Yes, please explain: _____

5. Are you aware of commonly known or reasonably ascertainable information about the Site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

a) Do you know the past uses of the Site?

X Yes ☐ No ☐ Unknown ☐ N/A

If Yes, please explain: Medium duty and full size pickup truck assembly.

b) Do you know of specific chemicals that are present or once were present at the Site?

☐ Yes **X No** ☐ Unknown ☐ N/A

If Yes, please explain: _____

c) Do you know of chemical spills that have taken place at the Site?

☐ Yes **X No** ☐ Unknown ☐ N/A

If Yes, please explain: _____

d) Do you know of any environmental cleanups that have taken place at the Site?

☐ Yes **X No** ☐ Unknown ☐ N/A

If Yes, please explain: _____

e) Do you know if any fill material has been imported to the Site?

☐ Yes

☒ **No**

☐ Unknown

☐ N/A

If Yes, please explain: _____

6. Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Site?

☐ Yes

☒ **No**

☐ Unknown

☐ N/A

If Yes, please explain: _____

7. Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site?

☐ Yes

☒ **No**

☐ Unknown

☐ N/A

If Yes, please explain: _____

8. Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at the Site?

☐ Yes

☒ **No**

☐ Unknown

☐ N/A

If Yes, please explain: _____

9. Based on your knowledge and experience related to the Site are there any obvious indicators that point to the presence or likely presence of contamination at the Site?

☐ Yes

☒ **No**

☐ Unknown

☐ N/A

If Yes, please explain: _____

10. Does the Site's purchase price reasonably reflect the fair market value of the property?

☐ Yes ☐ No **X Unknown** ☐ N/A

If No, do you know the reason for lower purchase price? Is it possible that the lower purchase price is because of contamination known or believed to be present at the Site?

☐ Yes ☐ No **X Unknown** ☐ N/A

If Yes, please explain: _____

11. Have any of the following documents been prepared for the Site and, if so, can copies be provided to LFR:

- Environmental site assessment reports ☐ Yes ☐ No ☐ Copies available
- Environmental compliance audit reports ☐ Yes ☐ No ☐ Copies available
- Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, National Pollutant Discharge Elimination System permits, underground injection permits) ☐ Yes ☐ No ☐ Copies available
- Registrations for underground storage tanks (USTs) and/or above ground storage tanks (ASTs) ☐ Yes ☐ No ☐ Copies available
- Registrations for underground injection systems ☐ Yes ☐ No ☐ Copies available
- Material safety data sheets ☐ Yes ☐ No ☐ Copies available
- Community right-to-know plan ☐ Yes ☐ No ☐ Copies available
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc. ☐ Yes ☐ No ☐ Copies available
- Reports regarding hydrogeologic conditions on the Site or in the surrounding area ☐ Yes ☐ No ☐ Copies available
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the Site or relating to environmental liens encumbering the Site ☐ Yes ☐ No ☐ Copies available
- Hazardous waste generator notices or reports ☐ Yes ☐ No ☐ Copies available
- Risk assessments ☐ Yes ☐ No ☐ Copies available
- Recorded Activity and Use Limitations (e.g. deed restriction, asphalt cap) ☐ Yes ☐ No ☐ Copies available

LFR appreciates your assistance on this project.

APPENDIX B

Historical Research Documentation

GMVM Pontiac Assembly

2100 South Opdyke Road
Pontiac, MI 48341

Inquiry Number: 2688090.5

February 02, 2010

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography February 02, 2010

Target Property:

2100 South Opdyke Road

Pontiac, MI 48341

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1937	Aerial Photograph. Scale: 1"=500'	Flight Year: 1937	AAA
1940	Aerial Photograph. Scale: 1"=500'	Flight Year: 1940	AAA
1949	Aerial Photograph. Scale: 1"=500'	Flight Year: 1949	Detroit Edison
1957	Aerial Photograph. Scale: 1"=500'	Flight Year: 1957	CSS
1961	Aerial Photograph. Scale: 1"=500'	Flight Year: 1961	Detroit Edison
1967	Aerial Photograph. Scale: 1"=500'	Flight Year: 1967	Detroit Edison
1972	Aerial Photograph. Scale: 1"=600'	Flight Year: 1972	ASCS
1980	Aerial Photograph. Scale: 1"=500'	Flight Year: 1980	SEMCOG
1993	Aerial Photograph. Scale: 1"=600'	Flight Year: 1993	NAPP
2000	Aerial Photograph. Scale: 1"=500'	Flight Year: 2000	SEMCOG
2005	Aerial Photograph. 1" = 604'	Flight Year: 2005	EDR



INQUIRY #: 2688090.5

YEAR: 1937

| = 500'





INQUIRY #: 2688090.5

YEAR: 1940

| = 500'





INQUIRY #: 2688090.5

YEAR: 1949

— = 500'





INQUIRY #: 2688090.5

YEAR: 1957

| = 500'



Aerial Photographs

GMVM Pontiac Assembly

2100 South Opdyke Road
Pontiac, MI 48341

Inquiry Number: 2688090.5

February 02, 2010

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography February 02, 2010

Target Property:

2100 South Opdyke Road

Pontiac, MI 48341

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1937	Aerial Photograph. Scale: 1"=500'	Flight Year: 1937	AAA
1940	Aerial Photograph. Scale: 1"=500'	Flight Year: 1940	AAA
1949	Aerial Photograph. Scale: 1"=500'	Flight Year: 1949	Detroit Edison
1957	Aerial Photograph. Scale: 1"=500'	Flight Year: 1957	CSS
1961	Aerial Photograph. Scale: 1"=500'	Flight Year: 1961	Detroit Edison
1967	Aerial Photograph. Scale: 1"=500'	Flight Year: 1967	Detroit Edison
1972	Aerial Photograph. Scale: 1"=600'	Flight Year: 1972	ASCS
1980	Aerial Photograph. Scale: 1"=500'	Flight Year: 1980	SEMCOG
1993	Aerial Photograph. Scale: 1"=600'	Flight Year: 1993	NAPP
2000	Aerial Photograph. Scale: 1"=500'	Flight Year: 2000	SEMCOG
2005	Aerial Photograph. 1" = 604'	Flight Year: 2005	EDR



INQUIRY #: 2688090.5

YEAR: 1937

| = 500'





INQUIRY #: 2688090.5

YEAR: 1940

| = 500'





INQUIRY #: 2688090.5

YEAR: 1949

— = 500'





INQUIRY #: 2688090.5

YEAR: 1957

| = 500'





INQUIRY #: 2688090.5

YEAR: 1961

| = 500'



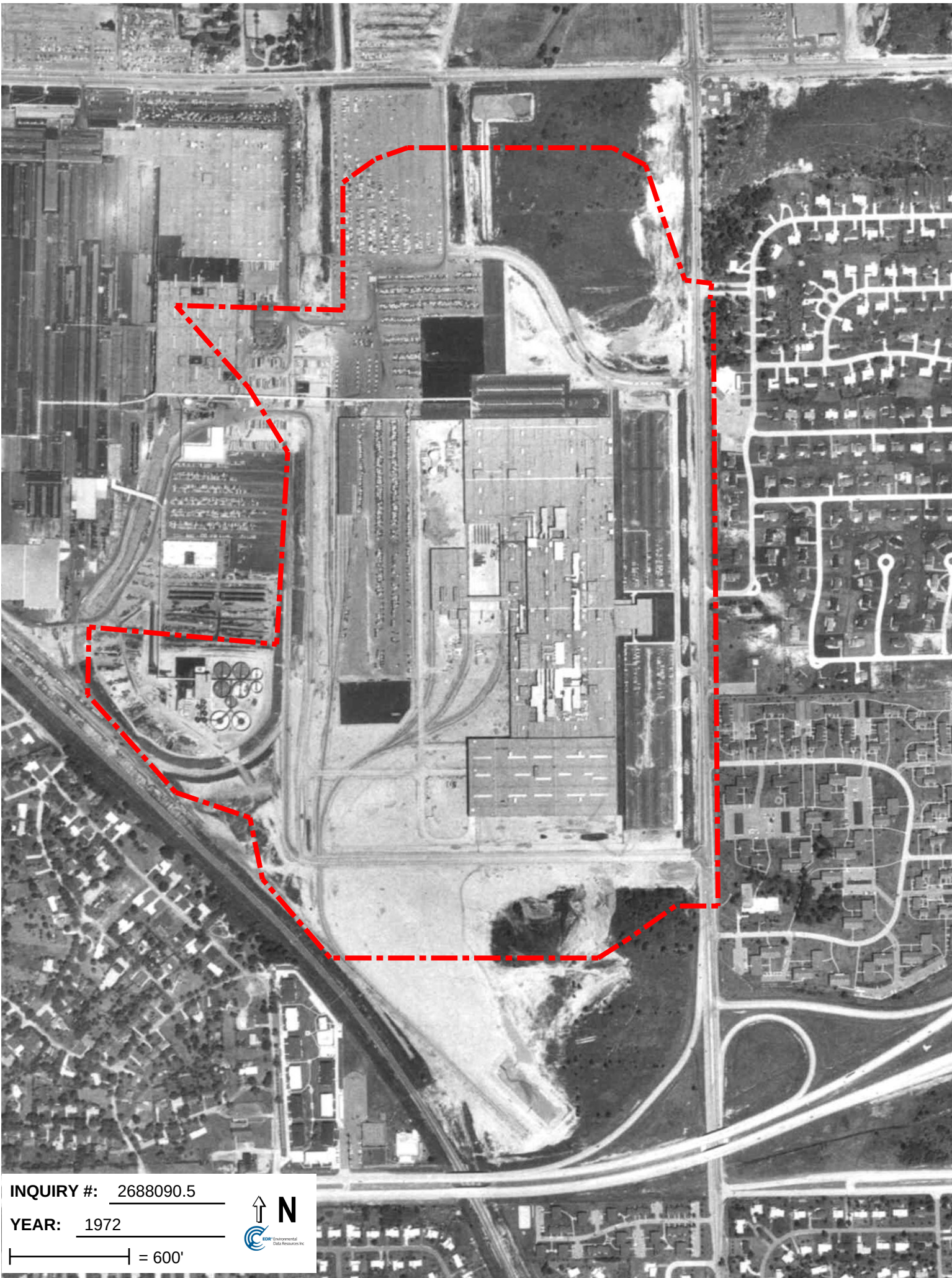


INQUIRY #: 2688090.5

YEAR: 1967

| = 500'



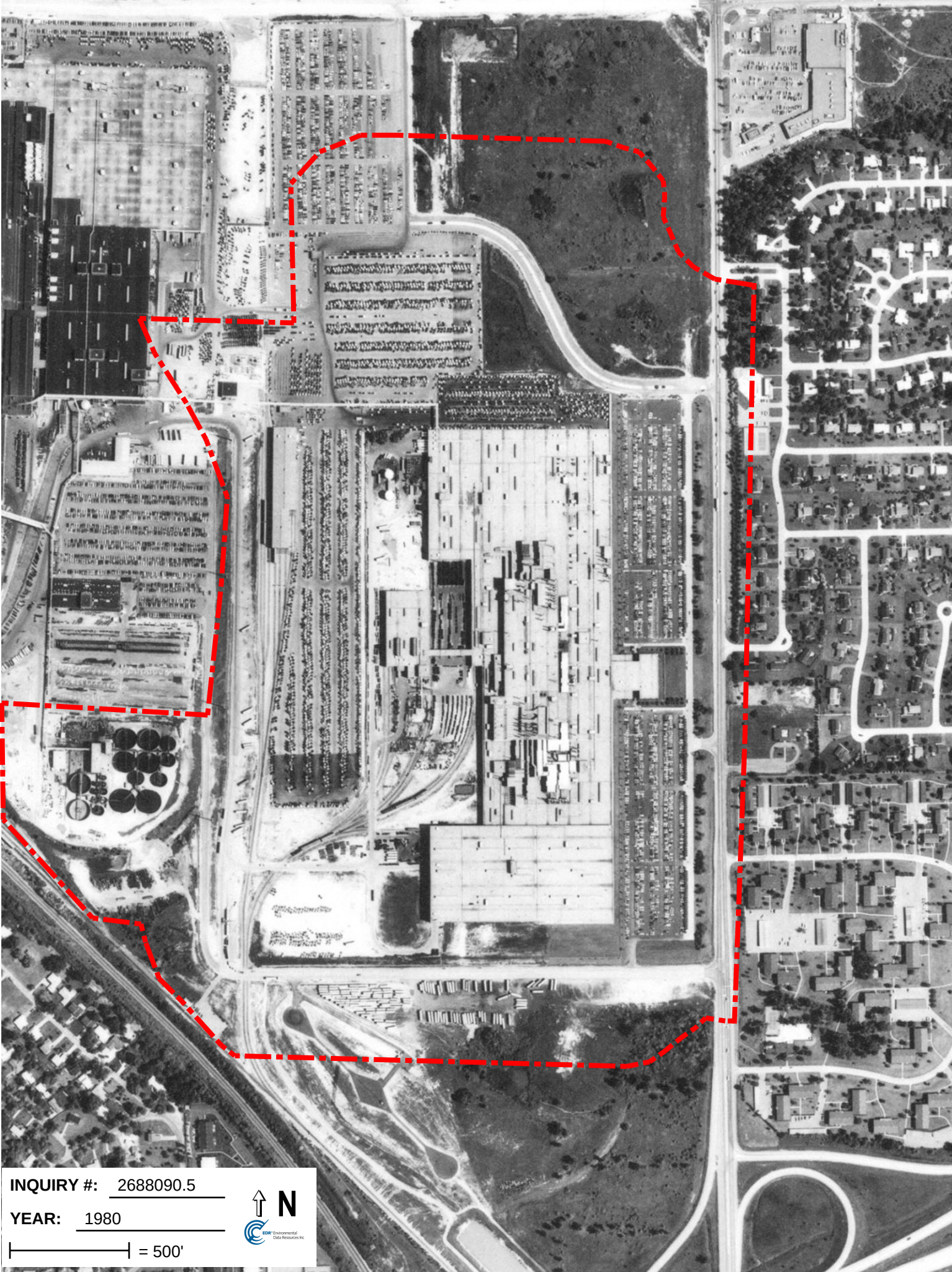


INQUIRY #: 2688090.5

YEAR: 1972

| = 600'





INQUIRY #: 2688090.5

YEAR: 1980

— = 500'



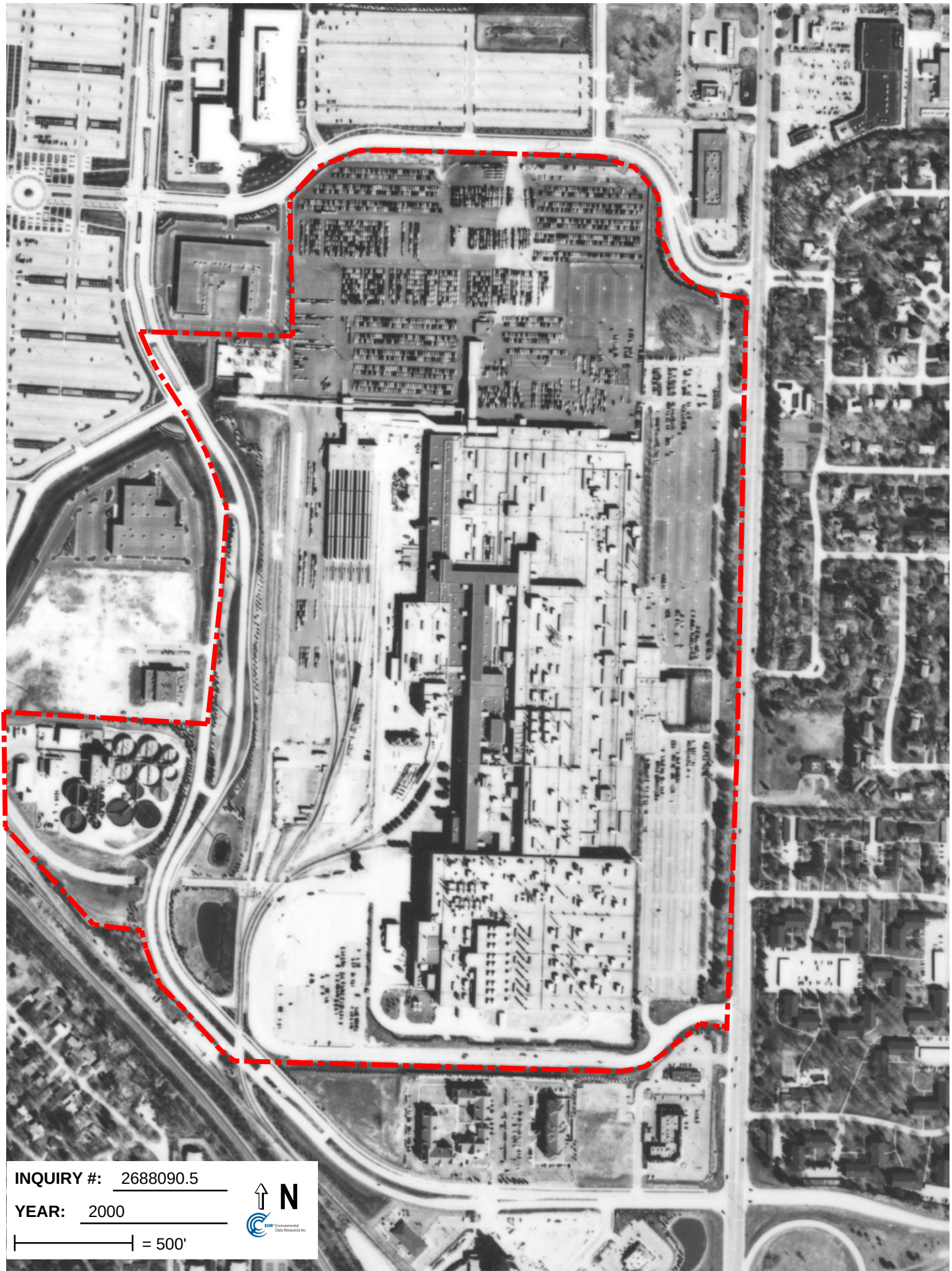


INQUIRY #: 2688090.5

YEAR: 1993

| = 600'





INQUIRY #: 2688090.5

YEAR: 2000

| = 500'





INQUIRY #: 2688090.5

YEAR: 2005

| = 604'



Sanborn Maps

GMVM Pontiac Assembly

2100 South Opdyke Road
Pontiac, MI 48341

Inquiry Number: 2688090.3

January 28, 2010

Certified Sanborn® Map Report

Certified Sanborn® Map Report

1/28/10

Site Name:

GMVM Pontiac Assembly
2100 South Opdyke Road
Pontiac, MI 48341

Client Name:

LFR Inc
194 Forbes Road
Braintree, MA 02184

EDR Inquiry # 2688090.3

Contact: Sean Drain



Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by LFR Inc were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: GMVM Pontiac Assembly
Address: 2100 South Opdyke Road
City, State, Zip: Pontiac, MI 48341
Cross Street:
P.O. # NA
Project: NA
Certification # 4D9C-4C28-8AE4



Sanborn® Library search results
Certification # 4D9C-4C28-8AE4

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

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City Directory Abstract

GMVM Pontiac Assembly

2100 South Opdyke Road
Pontiac, MI 48341

Inquiry Number: 2688090.6
February 02, 2010

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.

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2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract 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 Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2009	Bresser's Criss-Cross Directory	X	X	X	-
2004	Bresser's Criss-Cross Directory	-	X	X	-
1999	Bresser's Criss-Cross Directory	-	X	X	-
1994	Bresser's Criss-Cross Directory	-	X	X	-
1989	Bresser's Criss-Cross Directory	-	-	-	-
1984	Bresser's Criss-Cross Directory	-	-	-	-
1979	Bresser's Criss-Cross Directory	-	-	-	-
1973	Bresser's Criss-Cross Directory	-	-	-	-
1962	Polk's City Directory	-	X	X	-
1957	Polk's City Directory	-	X	X	-
1952	Polk's City Directory	-	X	X	-
1945	Polk's City Directory	-	-	-	-
1939	Polk's City Directory	-	X	X	-
1931	Polk's City Directory	-	-	-	-
1927	Polk's City Directory	-	-	-	-
1922	Polk's City Directory	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
3333 Centerpoint Parkway	Client Entered	X
200 South Boulevard East	Client Entered	
2200 South Opdyke Road	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

2100 South Opdyke Road
Pontiac, MI 48341

FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	General Motors Corp.	Bresser's Criss-Cross Directory
	General Motors Pontiac	Bresser's Criss-Cross Directory
	GM Truck Group Pontiac	Bresser's Criss-Cross Directory
	Securitas Security Svc.	Bresser's Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Centerpoint Parkway

3333 Centerpoint Parkway

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Residence Inn Pontiac Detroit	Bresser's Criss-Cross Directory
2004	Avis Rent-A-Car	Bresser's Criss-Cross Directory
	Residence Inn by Marriott	Bresser's Criss-Cross Directory
1999	Residence Inn by Marriott	Bresser's Criss-Cross Directory

South Opdyke Road

South Opdyke Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	-No Addresses Listed Beyond 2200 South Opdyke Road	Bresser's Criss-Cross Directory
	-No Other Addresses Listed 1800-2100 Block South Opdyke Road	Bresser's Criss-Cross Directory
2004	-No Addresses Listed Beyond 2200 South Opdyke Road	Bresser's Criss-Cross Directory
	-No Other Addresses Listed 1800-2100 Block South Opdyke Road	Bresser's Criss-Cross Directory
1999	-No Addresses Listed Beyond 2200 South Opdyke Road	Bresser's Criss-Cross Directory
	-No Other Addresses Listed 1800-2100 Block South Opdyke Road	Bresser's Criss-Cross Directory
1994	-No Addresses Listed Beyond 800 Block South Opdyke Road	Bresser's Criss-Cross Directory
1962	-No Addresses Listed Beyond 500 Block South Opdyke Road	Polk's City Directory
1957	-No Addresses Listed Beyond 500 Block South Opdyke Road	Polk's City Directory
1952	-No Addresses Listed Beyond 500 Block South Opdyke Road	Polk's City Directory
1939	-No Addresses Listed Before 2400 Block South Opdyke Road	Polk's City Directory

2200 South Opdyke Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Burger King Corp.	Bresser's Criss-Cross Directory
	Ponmalrest Associates Burger King	Bresser's Criss-Cross Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	RG Restaurant, Llc.	Bresser's Criss-Cross Directory
2004	Burger King Corp.	Bresser's Criss-Cross Directory
	RG Restaurant, Llc.	Bresser's Criss-Cross Directory
1999	Burger King Corp.	Bresser's Criss-Cross Directory
	RG Restaurant, Llc.	Bresser's Criss-Cross Directory

FINDINGS

STREET NOT LISTED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not listed in the research source.

Street Researched

Centerpoint Parkway

South Opdyke Road

Street Not Listed in Research Source

1994, 1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

1989, 1984, 1979, 1973, 1945, 1931, 1927, 1922

TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

Address Researched

2100 South Opdyke Road

Address Not Listed in Research Source

2004, 1999, 1994, 1962, 1957, 1952, 1939

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched

200 South Boulevard East

2200 South Opdyke Road

Address Not Listed in Research Source

2009, 2004, 1999, 1994, 1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

1994, 1962, 1957, 1952, 1939

Topographic Maps

GMVM Pontiac Assembly

2100 South Opdyke Road
Pontiac, MI 48341

Inquiry Number: 2688090.4
January 29, 2010

The EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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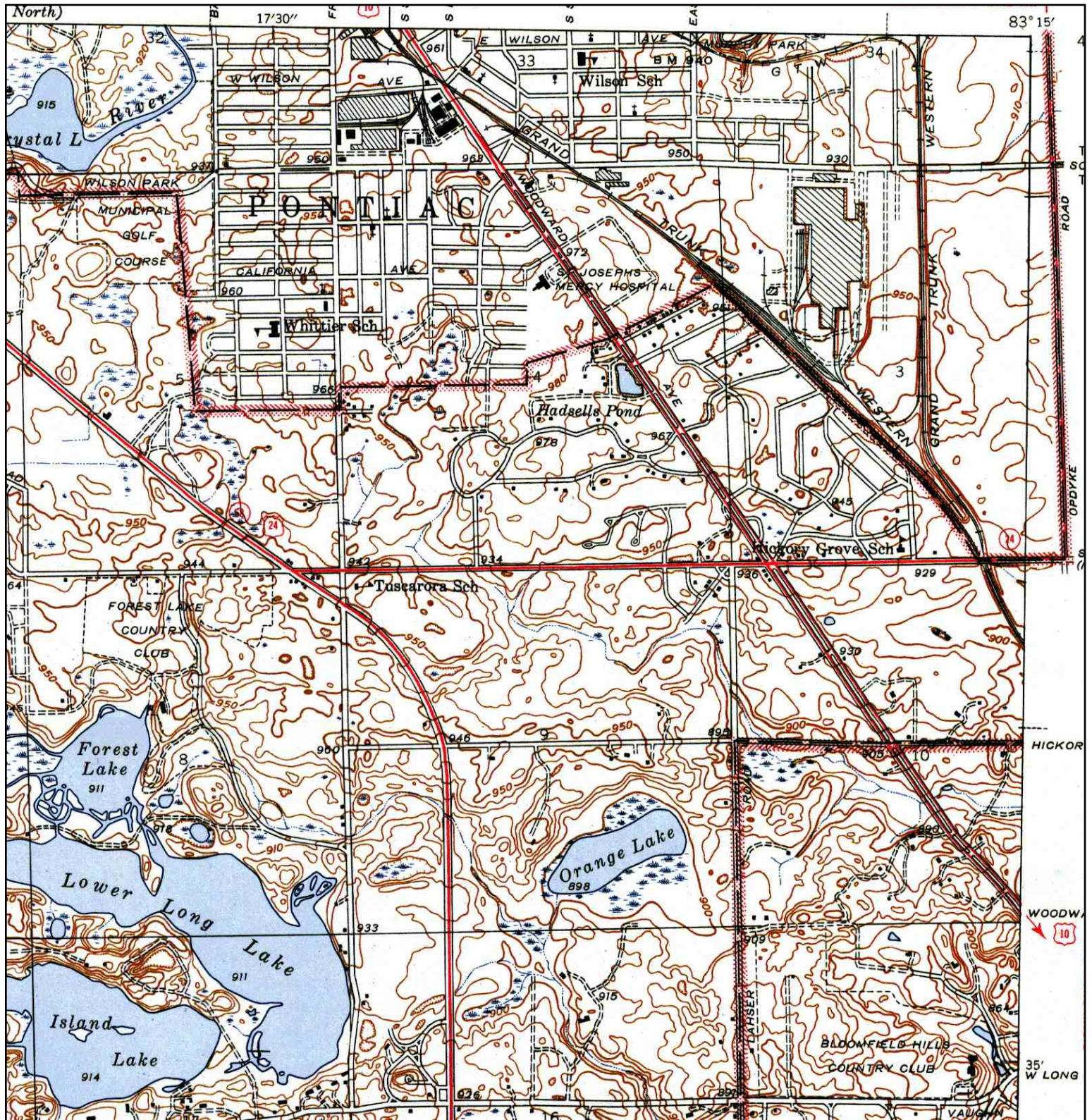
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Historical Topographic Map



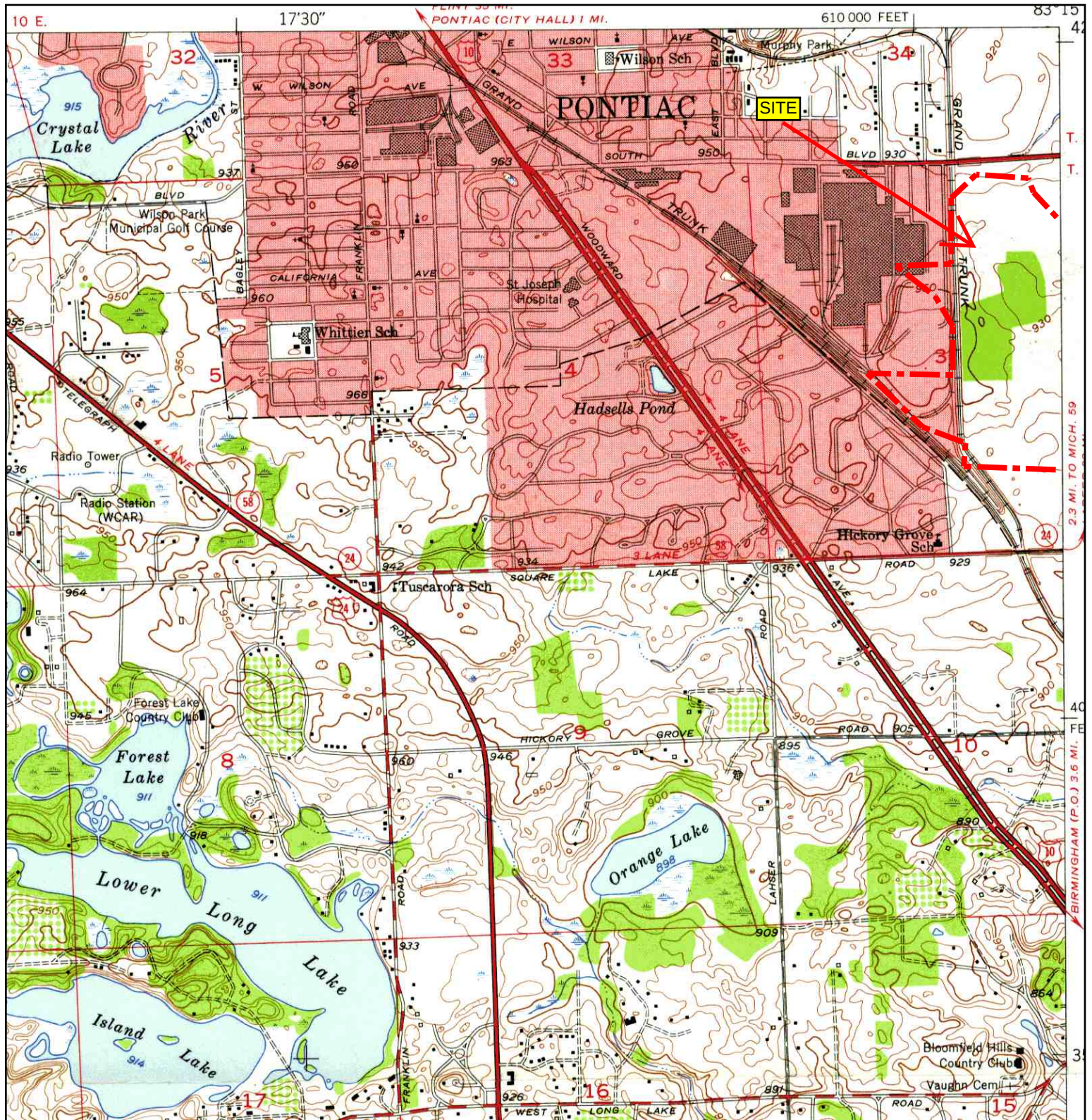
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Historical Topographic Map



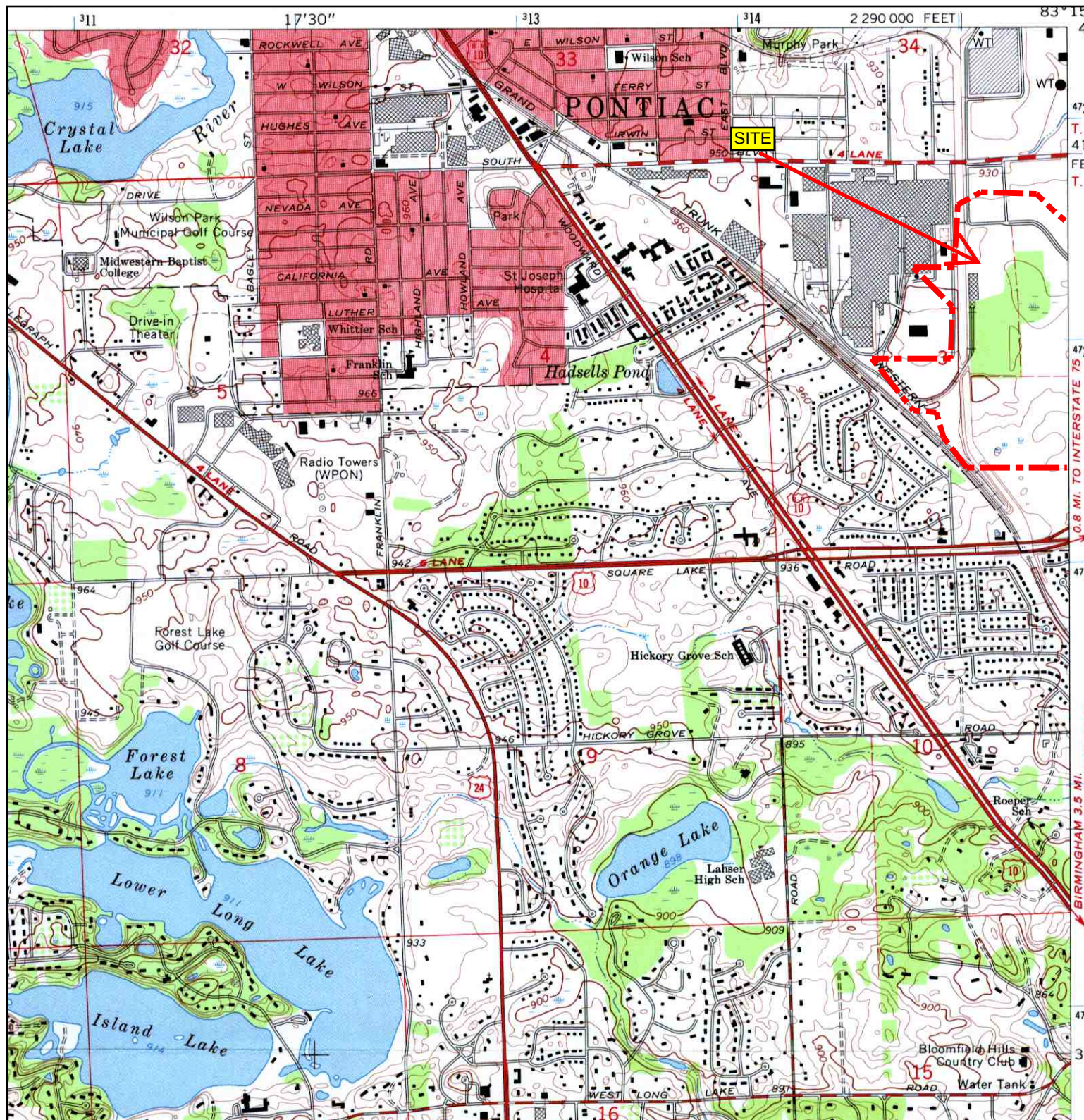
N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1943 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GMVM Pontiac Assembly ADDRESS: 2100 South Opdyke Road Pontiac, MI 48341 LAT/LONG: 42.6134 / 83.2526	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2688090.4 RESEARCH DATE: 01/29/2010

Historical Topographic Map



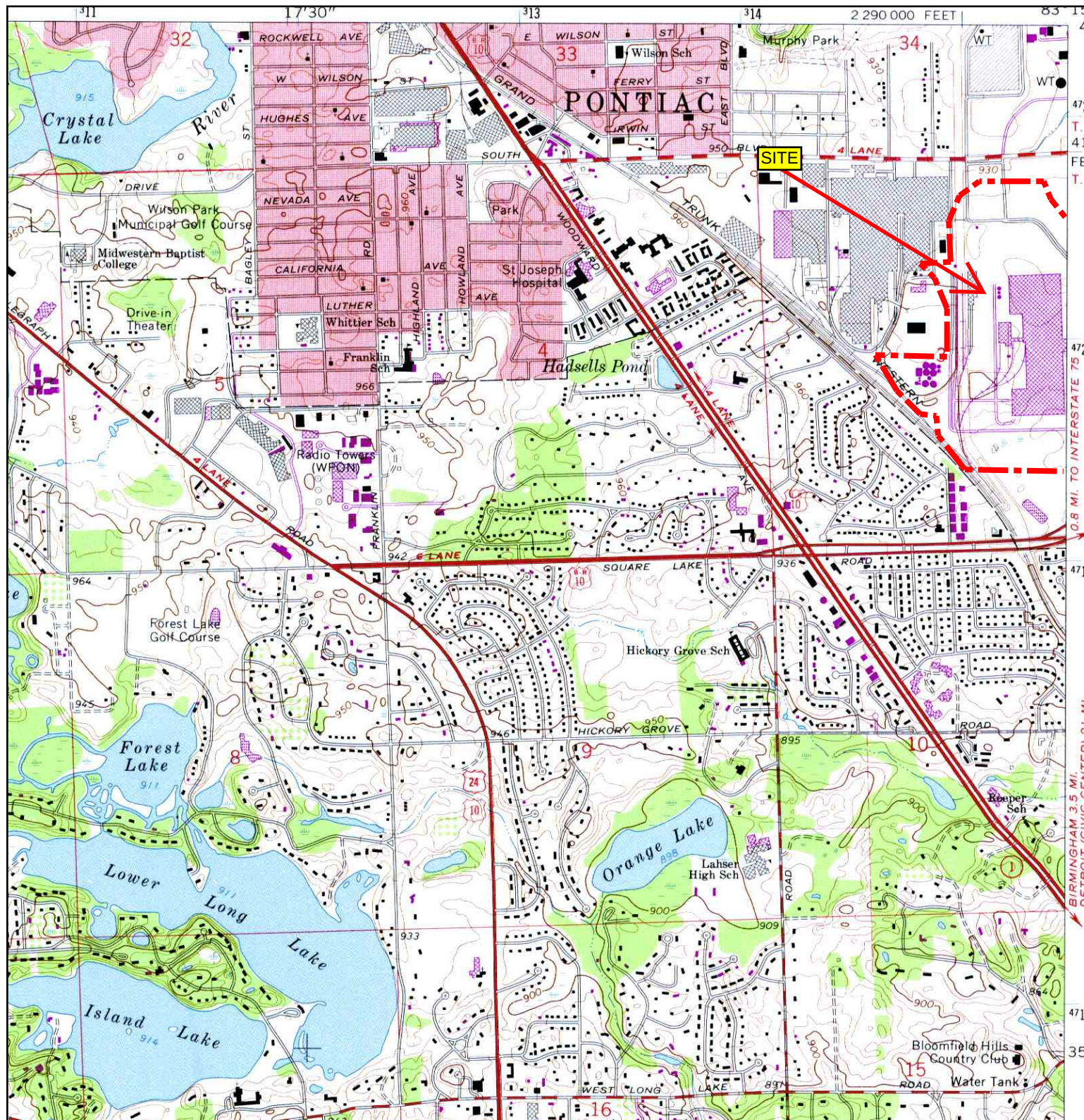
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1952 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GMVM Pontiac Assembly ADDRESS: 2100 South Opdyke Road Pontiac, MI 48341 LAT/LONG: 42.6134 / 83.2526	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2688090.4 RESEARCH DATE: 01/29/2010

Historical Topographic Map



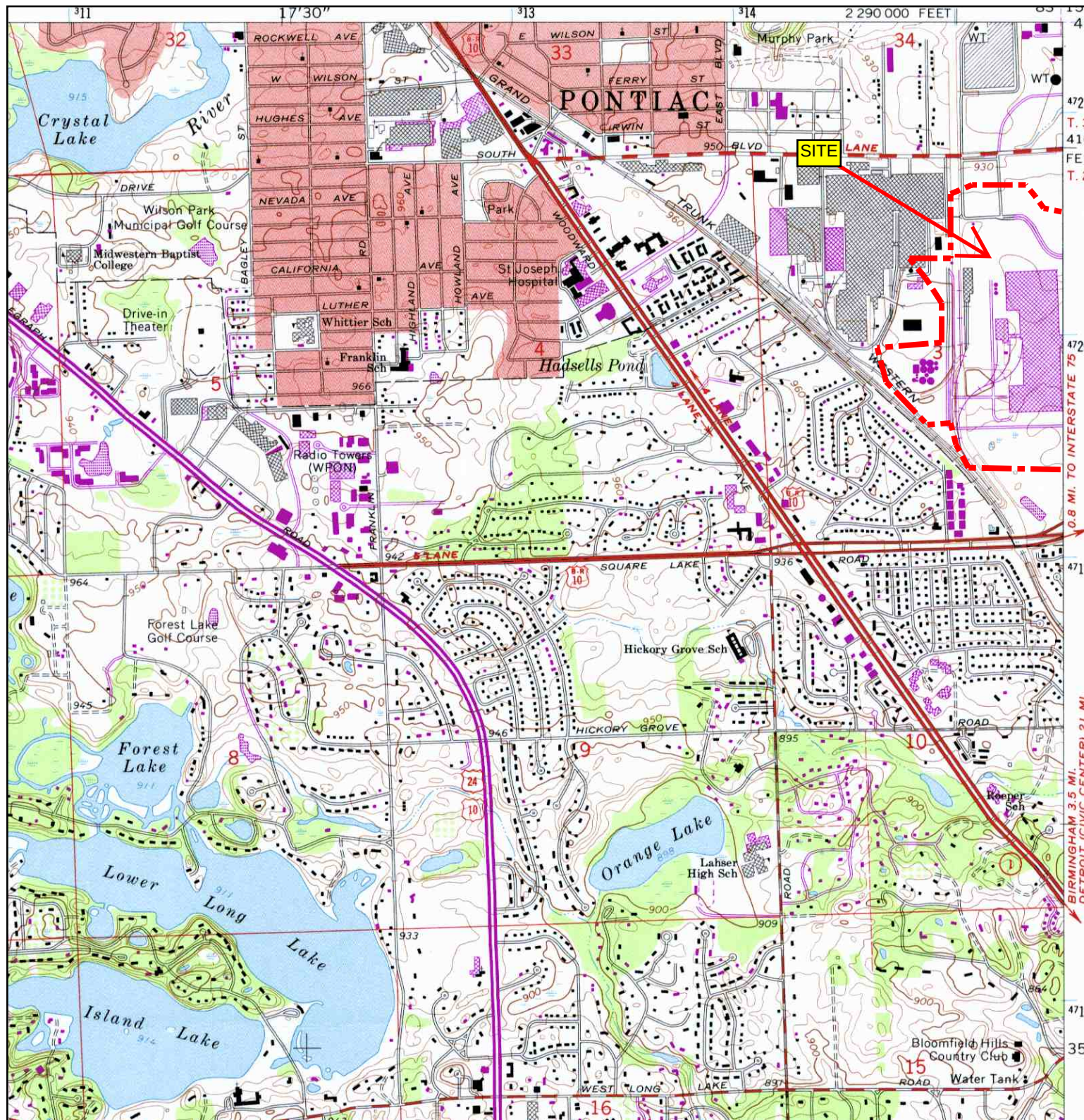
N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GMVM Pontiac Assembly ADDRESS: 2100 South Opdyke Road Pontiac, MI 48341 LAT/LONG: 42.6134 / 83.2526	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2688090.4 RESEARCH DATE: 01/29/2010

Historical Topographic Map



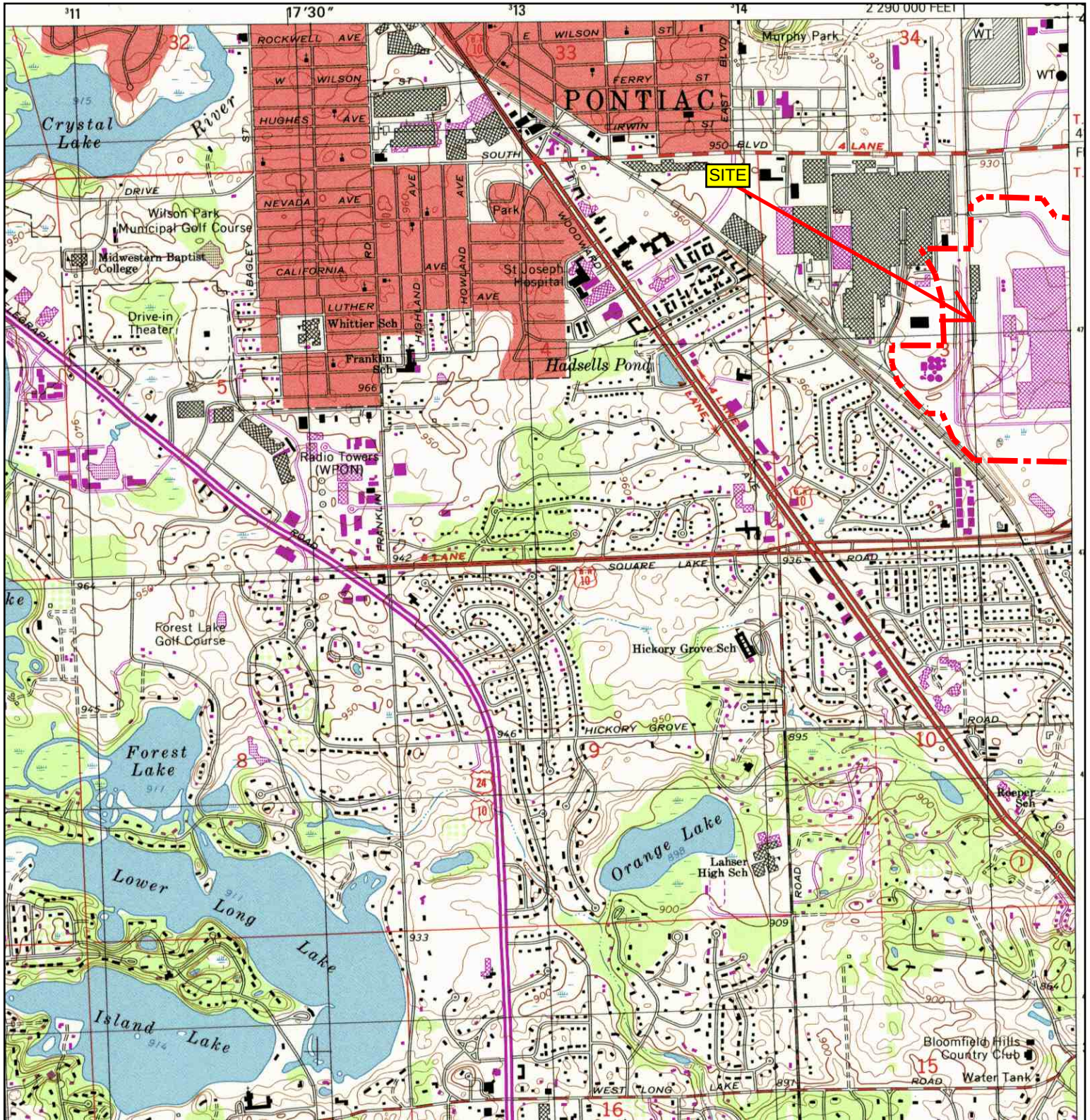
N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1973 PHOTOREVISED FROM: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GMVM Pontiac Assembly ADDRESS: 2100 South Opdyke Road Pontiac, MI 48341 LAT/LONG: 42.6134 / 83.2526	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2688090.4 RESEARCH DATE: 01/29/2010

Historical Topographic Map



N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1983 PHOTOREVISED FROM: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GMVM Pontiac Assembly ADDRESS: 2100 South Opdyke Road Pontiac, MI 48341 LAT/LONG: 42.6134 / 83.2526	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2688090.4 RESEARCH DATE: 01/29/2010

Historical Topographic Map



N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1997 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GMVM Pontiac Assembly ADDRESS: 2100 South Opdyke Road Pontiac, MI 48341 LAT/LONG: 42.6134 / 83.2526	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2688090.4 RESEARCH DATE: 01/29/2010

APPENDIX C

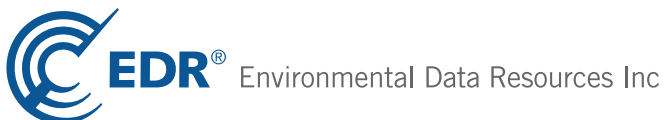
EDR Radius Map Report

GMVM Pontiac Assembly

2100 South Opdyke Road
Pontiac, MI 48341

Inquiry Number: 2688090.2s
January 29, 2010

The EDR Radius Map™ Report with GeoCheck®



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

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

2100 SOUTH OPDYKE ROAD
PONTIAC, MI 48341

COORDINATES

Latitude (North): 42.613400 - 42° 36' 48.2"
Longitude (West): 83.252600 - 83° 15' 9.4"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 315238.2
UTM Y (Meters): 4720130.0
Elevation: 939 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 42083-E3 PONTIAC SOUTH, MI
Most Recent Revision: 1997

North Map: 42083-F3 PONTIAC NORTH, MI
Most Recent Revision: 1997

Northeast Map: 42083-F2 ROCHESTER, MI
Most Recent Revision: 1997

East Map: 42083-E2 BIRMINGHAM, MI
Most Recent Revision: 1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2005
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
2100 SOUTH OPDYKE RD 2100 SOUTH OPDYKE RD PONTIAC, MI 48341	ERNS	N/A
ELECTRICAL SUBSTATION #8 2100 SOUTH OPDYKE ROAD PONTIAC, MI 48341	PCB TRANSFORMER	N/A

EXECUTIVE SUMMARY

PONTIAC EAST ASSEMBLY 2100 S OPDYKE RD PONTIAC, MI 48341	LUST Facility Status: Closed Facility Status: Closed UST AUL	N/A
ELECTRICAL SUBSTATION #8 2100 SOUTH OPDYKE ROAD PONTIAC, MI 48341	PCB TRANSFORMER	N/A
ELECTRICAL SUBSTATION #1 2100 SOUTH OPDYKE ROAD PONTIAC, MI 48341	PCB TRANSFORMER	N/A
GMC TRUCK GROUP PONTIAC EAST ASSE 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155 PONTIAC, MI 48341	ICIS	N/A
GENERAL MOTORS COMPANY 2100 S OPDYKE RD PONTIAC, MI 48341	RCRA-LQG	MIK491326427
ELECTRICAL SUBSTATION #1 2100 SOUTH OPDYKE ROAD PONTIAC, MI 48341	PCB TRANSFORMER	N/A
GM-PONTIAC ASSEMBLY CENTER 2100 SOUTH OPDYKE ROAD PONTIAC, MI 48341	NPDES	N/A
2100 SOUTH UPDYKE 2100 SOUTH UPDYKE PONTIAC, MI	SPILLS	N/A
2100 SOUTH OPDYKE RD WASTE WATER 2100 SOUTH OPDYKE RD WASTE WATER TREATMENT FACILITY PONTIAC, MI 48341	ERNS	N/A
GENERAL MOTORS TRUCK GROUP 2100 SO OPDYKE RD PONTIAC, MI 48341	FTTS HIST FTTS	N/A
GM CORP TRUCK GROUP 2100 S OPDYKE RD PONTIAC, MI 48341	AST	N/A
GENERAL MOTORS-PONTIAC ASSEMBLY P 2100 SOUTH UPDYKE RD. PONTIAC, MI	SPILLS	N/A

EXECUTIVE SUMMARY

2100 S. UPDYKE
2100 S. UPDYKE
PONTIAC, MI

SPILLS

N/A

GENERAL MOTORS CORPORATION, PONTI
2100 S. OPDYKE RD.
PONTIAC, MI 48341

AIRS

N/A

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA generators list

RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List

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

SWF/LF..... Solid Waste Facilities Database

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST..... Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields and UST Site Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
HIST LF..... Inactive Solid Waste Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
DEL SHWS..... Delisted List of Contaminated Sites
CDL..... Clandestine Drug Lab Listing
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
LUCIS..... Land Use Control Information System
LIENS..... Lien List

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
SSTS..... Section 7 Tracking Systems
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System

EXECUTIVE SUMMARY

RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Database
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
COAL ASH DOE.....	Sleam-Electric Plan Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
COAL ASH.....	Coal Ash Disposal Sites

EDR PROPRIETARY RECORDS

EDR Proprietary Records

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

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

A review of the CERC-NFRAP list, as provided by EDR, and dated 06/23/2009 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GMC TRUCK & COACH DIV PONTIAC</i>	<i>660 S BLVD E</i>	<i>W 1/4 - 1/2 (0.419 mi.)</i>	<i>D38</i>	<i>65</i>

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

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

A review of the CORRACTS list, as provided by EDR, and dated 09/15/2009 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GMC TRUCK & COACH DIV PONTIAC	660 S BLVD E	W 1/4 - 1/2 (0.419 mi.)	D38	65

Federal RCRA non-CORRACTS TSD facilities list

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

A review of the RCRA-TSDF list, as provided by EDR, and dated 12/11/2009 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GMC TRUCK & COACH DIV PONTIAC	660 S BLVD E	W 1/4 - 1/2 (0.419 mi.)	D38	65

Federal RCRA generators list

RCRA-CESQG: 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.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/11/2009 has revealed that there are 3 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JACKSON AUTOMOTIVE GROUP	2800 CENTERPOINT PKWY	W 0 - 1/8 (0.031 mi.)	21	35
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
IRVIN AUTOMOTIVE PRODUCTS	2600 CENTERPOINT PKWY	W 0 - 1/8 (0.019 mi.)	20	29
B-H TOWN AND COUNTRY CLEANERS	1607 S OPDYKE RD	NNE 0 - 1/8 (0.095 mi.)	24	39

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

US INST CONTROL: 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.

A review of the US INST CONTROL list, as provided by EDR, and dated 10/01/2009 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GMC TRUCK & COACH DIV PONTIAC	660 S BLVD E	W 1/4 - 1/2 (0.419 mi.)	D38	65

State- and tribal - equivalent CERCLIS

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

A review of the SHWS list, as provided by EDR, and dated 10/28/2009 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GM TRUCK AND BUS PONTIAC CENTR	660 S. BLVD. E	W 1/4 - 1/2 (0.419 mi.)	D37	65
Facility Status: Inactive - no actions taken to address contamination				

State and tribal leaking storage tank lists

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

A review of the LUST list, as provided by EDR, and dated 11/23/2009 has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GM - PONTIAC CENTERPOINT CAMPU	660 S BOULEVARD EAST	W 1/4 - 1/2 (0.419 mi.)	D36	63
Facility Status: Open				
Facility Status: Open				
<i>*Additional key fields are available in the Map Findings section</i>				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOUTH BOULEVARD & UPDYKE STATI	1501 S OPDYKE RD	E 1/8 - 1/4 (0.125 mi.)	B25	42
Facility Status: Open				
Facility Status: Closed				
KMART #4323	975 S OPDYKE ROAD	ENE 1/8 - 1/4 (0.138 mi.)	C28	46
Facility Status: Closed				

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WATER & SEWER Facility Status: Closed	522 S OPDYKE RD	NNE 1/4 - 1/2 (0.328 mi.)	32	51
AUBURN PONTIAC Facility Status: Closed Facility Status: Closed	500 S OPDYKE RD	NNE 1/4 - 1/2 (0.381 mi.)	34	54
MOOTE ELECTRICAL, INC Facility Status: Closed	490 S OPDYKE RD	NNE 1/4 - 1/2 (0.417 mi.)	35	62

State and tribal registered storage tank lists

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

A review of the UST list, as provided by EDR, and dated 11/23/2009 has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DET EDISON OPDYKE SERV CENTER	1670 OPDYKE	NNE 0 - 1/8 (0.017 mi.)	19	28
JERRY ARMSTRONGS INC	1500 S OPDYKE RD	N 0 - 1/8 (0.051 mi.)	22	38
SOUTH BOULEVARD & UPDYKE STATI	1501 S OPDYKE RD	E 1/8 - 1/4 (0.125 mi.)	B25	42
KMART #4323	975 S OPDYKE ROAD	ENE 1/8 - 1/4 (0.138 mi.)	C28	46

State and tribal institutional control / engineering control registries

AUL: A listing of sites with institutional and/or engineering controls in place.

A review of the AUL list, as provided by EDR, and dated 01/04/2010 has revealed that there is 1 AUL site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOUTH BLVD. & UPDYKE STATION I	1501 S. OPDYKE	E 1/8 - 1/4 (0.125 mi.)	B26	44

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

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

A review of the RCRA-NonGen list, as provided by EDR, and dated 12/11/2009 has revealed that there

EXECUTIVE SUMMARY

are 3 RCRA-NonGen sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOBIL OIL CORP	1501 OPDYKE AVE	E 0 - 1/8 (0.007 mi.)	18	26
KMART CORPORATION	975 S OPDYKE RD	ENE 1/8 - 1/4 (0.138 mi.)	C29	47
SWINTERS SVC CTR	807 SOUTH BLVD E	N 1/8 - 1/4 (0.166 mi.)	30	49

DRYCLEANERS: A listing of drycleaning facilities in Michigan.

A review of the DRYCLEANERS list, as provided by EDR, and dated 02/18/2009 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
B H TOWN & COUNTRY CLEANERS	1607 S OPDYKE RD	NE 0 - 1/8 (0.091 mi.)	23	39

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 12/02/2009 has revealed that there are 4 BEA sites within approximately 0.5 miles of the target property.

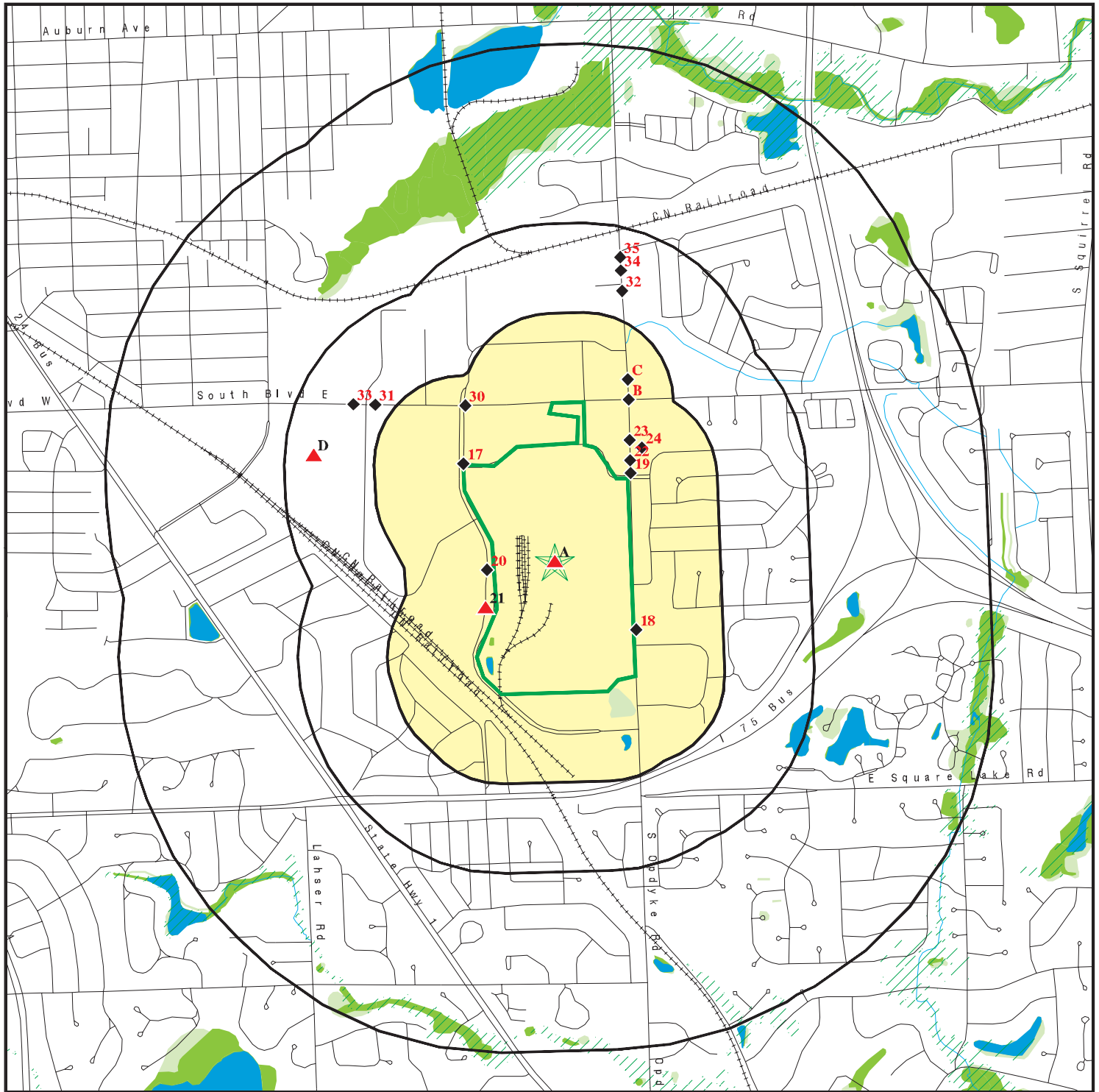
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOTOWN MOTION PICTURES LLC	1999 CENTERPOINT PARK	W 0 - 1/8 (0.003 mi.)	17	26
MOBIL STATION #03-M5G (FORMER)	1501 SOUTH OPDYKE	E 1/8 - 1/4 (0.126 mi.)	B27	45
SOUTH BOULEVARD COMMERCIAL BUI	655 SOUTH BOULEVARD	EAS NW 1/4 - 1/2 (0.298 mi.)	31	51
OFFICE BUILDING	585 SOUTH BOULEVARD	EAS WNW 1/4 - 1/2 (0.350 mi.)	33	53

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
PONTIAC OSTEOPATHIC HOSPITAL	FTTS, HIST FTTS
ADAMS AND AUBURN RD DEVELOPMENT	SHWS
SHELL DRY WELL 1 TELEGRAPH	SHWS
3951 JOSLYN RD	CERC-NFRAP, SHWS
KENNETT RD LF	SHWS
ASPHALT SPECIALIST INC	SHWS, DEL SHWS
871 SOUTH BLVD	CERC-NFRAP
SALTARELLI LANDFILL	HIST LF
WOODWARD AVE & SQUARE LAKE ROAD	LUST
820 OPDYKE RD	RCRA-LQG
CITY OF PONTIAC	RCRA-NonGen
CITY OF PONTIAC	RCRA-CESQG
CITY OF PONTIAC BRIDGE	RCRA-CESQG
CITY OF PONTIAC	FINDS
CITY OF PONTIAC BRIDGE B01-65-17-2	FINDS
CITY OF PONTIAC	FINDS
ARTS AND TECHNOLOGY ACADEMY OF PON	FINDS
FIRE STATION #2/DPW	US BROWNFIELDS
LIGHT INDUSTRIAL PROPERTY	BEA
PONTIAC HOLDINGS, LLC	BEA
UNIT 52 CENTERPOINT BUSINESS CAMPU	BEA
LANDSTONE PONTIAC PARTNERS LLC	BEA
PONTIAC NORTH CAMPUS / FORMER GM F	BEA
PONTIAC CENTER, LLC	BEA
PONTIAC CITY OF	BEA
PONTIAC WASTE WATER TREATMENT	SPILLS
TIM YOUNGQUIST/CITY OF PONTIAC	SPILLS
PONTIAC WASTEWATER TREATMENT PLANT	SPILLS
PONTIAC STORAGE	DEL SHWS
GENERAL MOTORS TRUCK & BUS DIV PON	ICIS
PONTIAC	ICIS

OVERVIEW MAP - 2688090.2s



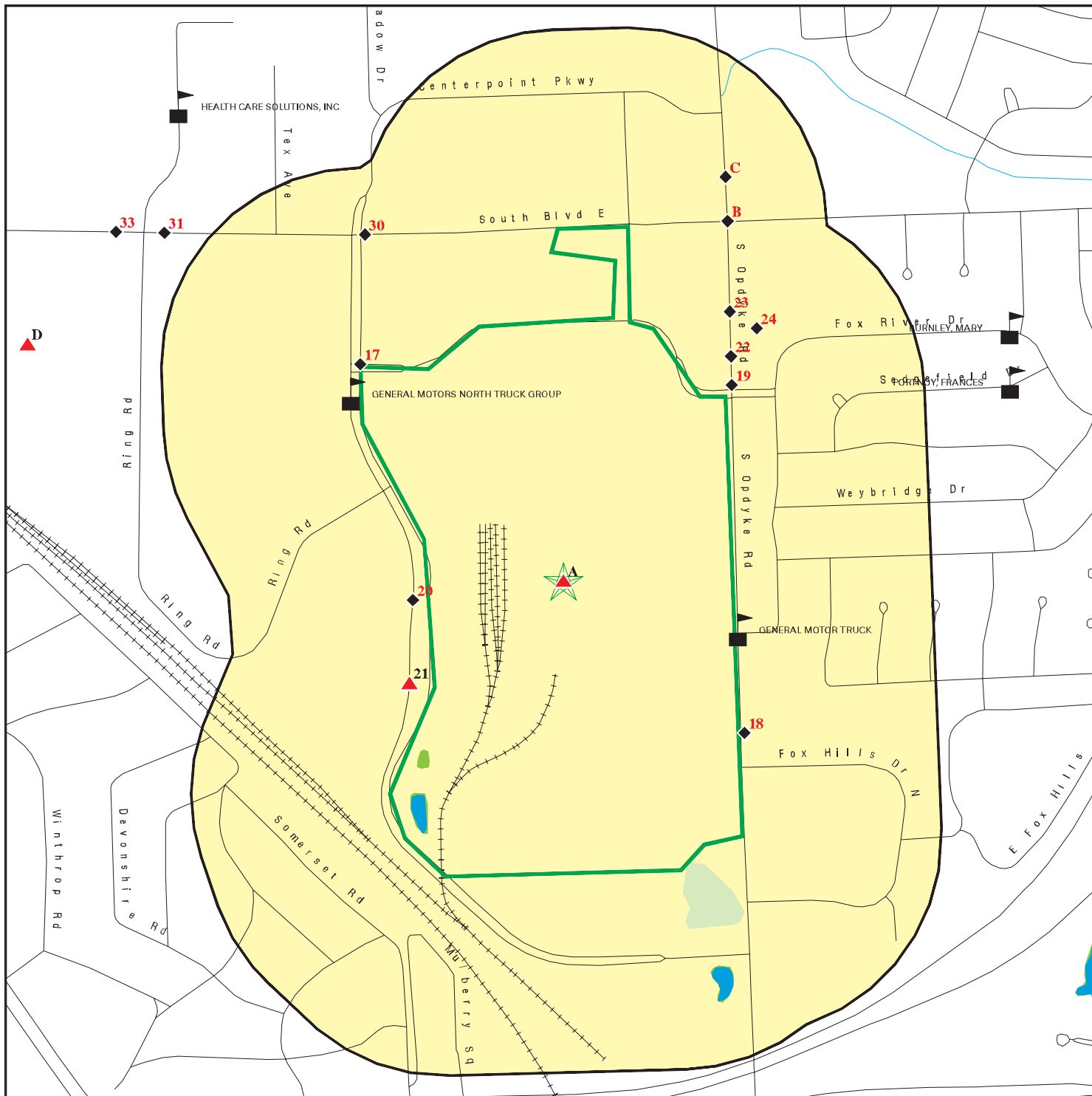
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

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

SITE NAME: GMVM Pontiac Assembly
 ADDRESS: 2100 South Odysse Road
 Pontiac MI 48341
 LAT/LONG: 42.6134 / 83.2526

CLIENT: LFR Inc
 CONTACT: Sean Drain
 INQUIRY #: 2688090.2s
 DATE: January 29, 2010 8:50 am

DETAIL MAP - 2688090.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

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

SITE NAME: GMVM Pontiac Assembly
 ADDRESS: 2100 South Opdyke Road
 Pontiac MI 48341
 LAT/LONG: 42.6134 / 83.2526

CLIENT: LFR Inc
 CONTACT: Sean Drain
 INQUIRY #: 2688090.2s
 DATE: January 29, 2010 8:50 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	0	0	1	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.000	0	0	1	0	NR	1
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.500	0	0	1	NR	NR	1
<i>Federal RCRA generators list</i>								
RCRA-LQG	X	0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	3	0	NR	NR	NR	3
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	1	NR	NR	1
<i>Federal ERNS list</i>								
ERNS	X	TP	NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		1.000	0	0	1	0	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.500	0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	X	0.500	0	2	4	NR	NR	6
INDIAN LUST		0.500	0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	X	0.250	2	2	NR	NR	NR	4

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	X	0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	X	0.500	0	1	0	NR	NR	1
State and tribal voluntary cleanup sites								
INDIAN VCP		0.500	0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
DEL SHWS		1,000	0	0	0	0	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS	X	TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	1	2	NR	NR	NR	3
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1,000	0	0	0	0	NR	0
FUDS		1,000	0	0	0	0	NR	0
CONSENT		1,000	0	0	0	0	NR	0
ROD		1,000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS	X	TP	NR	NR	NR	NR	NR	0
HIST FTTS	X	TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS	X	TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	1	0	NR	NR	NR	1
NPDES	X	TP	NR	NR	NR	NR	NR	0
AIRS	X	TP	NR	NR	NR	NR	NR	0
BEA		0.500	1	1	2	NR	NR	4
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
PCB TRANSFORMER	X	TP	NR	NR	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	1.000	0	0	0	0	NR	0
EDR Historical Auto Stations	0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners	0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

2100 SOUTH OPDYKE RD
2100 SOUTH OPDYKE RD
PONTIAC, MI 48341

ERNS **99619226**
N/A

Site 1 of 16 in cluster A

Actual:
939 ft.

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A2
Target
Property

ELECTRICAL SUBSTATION #8
2100 SOUTH OPDYKE ROAD
PONTIAC, MI 48341

PCB TRANSFORMER **1011965165**
N/A

Site 2 of 16 in cluster A

Actual:
939 ft.

PCB TRANSFORMER:

Company name: General Motors Truck Group, Pontiac East Assembly
Company address: MC 483-606-186, 2100 South Opdyke Road
Pontiac, MI 48341-3155
Contact: Ken Gembel
Contact phone: 248-452-2781
Transformer location ID: 1343
Transformer box number: 2
Record ID: 4636
Document ID: 00324
Number of transformers: 1
Weight lbs: Not reported
Weight kgs: 682
Flammable: N
Office region: 5
Officer title: Plant Manager
Officer name: Kurt M. Wiese
Date assigned: 12/21/1998

A3
Target
Property

PONTIAC EAST ASSEMBLY
2100 S OPDYKE RD
PONTIAC, MI 48341

LUST **1000527893**
UST **N/A**
AUL

Site 3 of 16 in cluster A

Actual:
939 ft.

LUST:

Facility ID: 00000765
Source: STATE OF MICHIGAN
Owner Name: GM Corp Truck Group
Owner Address: 2100 S Opdyke Rd MC 483-606-186
Owner City,St,Zip: Pontiac, MI 48341-3155
Owner Contact: Not reported
Owner Phone: (248) 452-2781
Country: USA
District: SE Michigan District Office
Site Name: Pontiac East Assembly
Latitude: 42.6101440000
Longitude: -83.2483580000
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC EAST ASSEMBLY (Continued)

1000527893

Desc Category: Plant Entrance (Freight)

Leak Number: C-0226-05
Release Date: May 6 2005
Substance Released: Diesel
Release Status: Closed
Release Closed Date: Jul 29 2008

Leak Number: C-2741-91
Release Date: Oct 11 1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Sep 18 1995

UST:

Facility ID: 00000765
Facility Type: ACTIVE
Latitude: 42.6101440000
Longitude: -83.2483580000
Owner Name: GM Corp Truck Group
Owner Address: 2100 S Opdyke Rd MC 483-606-186
Owner City,St,Zip: Pontiac, MI 48341-3155
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 452-2781
Contact: Tom Vallone or Mary Warren
Contact Phone: (248) 452-2829
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 24000
Install Date: Apr 8 1971
Product: AXLE LUBE
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: Apr 8 1971
Product: PWR STEER OIL
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC EAST ASSEMBLY (Continued)

1000527893

Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Apr 8 1971
Product: ENGINE OIL
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Apr 8 1971
Product: Hazardous Substance
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 5
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Apr 8 1971
Product: MAN TRANS
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 6
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Apr 8 1971
Product: Diesel
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC EAST ASSEMBLY (Continued)

1000527893

Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 7
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: Apr 8 1971
Product: Gasoline
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic,Lined Interior,Tank Repaired
Impressed Device: No

Tank ID: 8
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: Apr 8 1971
Product: Gasoline
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 9
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: Apr 8 1971
Product: MAN TRANS
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 10
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: Apr 8 1971
Product: ATF
Remove Date: Sep 9 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC EAST ASSEMBLY (Continued)

1000527893

Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 11
Tank Status: Removed from Ground
Capacity: 1500
Install Date: Apr 7 1985
Product: SPILL TANK,Hazardous Substance,1,
Remove Date: May 7 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 12
Tank Status: Currently In Use
Capacity: 15000
Install Date: Jun 1 1990
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Inter Monitoring Double Walled Tank,Manual Tank Gauging
Pipe Realease Detection: Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,Galvanized Steel,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Double Walled,Epoxy Coated Steel
Impressed Device: No

Tank ID: 13
Tank Status: Currently In Use
Capacity: 15000
Install Date: Jun 1 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Inter Monitoring Double Walled Tank,Manual Tank Gauging
Pipe Realease Detection: Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,Galvanized Steel,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Double Walled,Epoxy Coated Steel
Impressed Device: No

Tank ID: 14
Tank Status: Currently In Use
Capacity: 15000
Install Date: Jun 1 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Inter Monitoring Double Walled Tank,Manual Tank Gauging
Pipe Realease Detection: Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,Galvanized Steel,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Double Walled,Epoxy Coated Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC EAST ASSEMBLY (Continued)

1000527893

Impressed Device: No

AUL:

Status:	Pending
Site Name:	Not reported
Property:	On-site location
Land Use Restriction Type:	RC
Program Type:	Part 213
Program Support Assigned User:	Not reported
Program Support Assigned Date:	Not reported
Legal Description Of Property:	Not reported
Based On The Deq Ref #:	11121309034
MDEQ Reference Number:	RC-RRD-213-09-034
Property Or Description Restricted Area:	Not reported
Lead Division:	RRD
File Name Of Hyperlinked Legal Doc:	Not reported
Mapped Polygon S Area In Acres:	Not reported
Mapped Polygon S Area In Square Miles:	Not reported
Date Data Entry Started:	Not reported
Date Data Entry Finished:	Not reported
Individual Or Staff Assoc With The Mapping:	Not reported
Program Used To Map Restricted Features:	Not reported
Map Comments:	Not reported
Comment:	3/16/2009, QC requested reference number. QC checked on the address. The property has many different access roads. SID has 660 S. Boulevard East, Pontiac, but the Internet LUST lists the address of 2100 S Opdyke Rd., Pontiac. The Opdyke Rd address is
Date Legal Paperwork Stamped/Filed/Register Of Deeds:	Not reported
Commercial I Land Use Restriction:	0
Commercial Ii Land Use Restriction:	0
Commercial Iii 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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A4
Target
Property
ELECTRICAL SUBSTATION #8
2100 SOUTH OPDYKE ROAD
PONTIAC, MI 48341

PCB TRANSFORMER **1011968846**
N/A

Site 4 of 16 in cluster A

Actual:
939 ft.

PCB TRANSFORMER:

Company name: General Motors Truck Group, Pontiac East Assembly
Company address: MC 483-606-186, 2100 South Opdyke Road
Pontiac, MI 48341-3155
Contact: Ken Gembel
Contact phone: 248-452-2781
Transformer location ID: 1343
Transformer box number: 2
Record ID: 4636
Document ID: 00324
Number of transformers: 1
Weight lbs: Not reported
Weight kgs: 682
Flammable: N
Office region: 5
Officer title: Plant Manager
Officer name: Kurt M. Wiese
Date assigned: 12/21/1998

A5
Target
Property
ELECTRICAL SUBSTATION #1
2100 SOUTH OPDYKE ROAD
PONTIAC, MI 48341

PCB TRANSFORMER **1011964585**
N/A

Site 5 of 16 in cluster A

Actual:
939 ft.

PCB TRANSFORMER:

Company name: General Motors Truck Group, Pontiac East Assembly
Company address: MC 483-606-186, 2100 South Opdyke Road
Pontiac, MI 48341-3155
Contact: Ken Gembel
Contact phone: 248-452-2781
Transformer location ID: 1343
Transformer box number: 1
Record ID: 1361
Document ID: 00324
Number of transformers: 2
Weight lbs: Not reported
Weight kgs: 1364
Flammable: N
Office region: 5
Officer title: Plant Manager
Officer name: Kurt M. Wiese
Date assigned: 12/21/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A6
Target
Property
GMC TRUCK GROUP PONTIAC EAST ASSEMBLY
2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, MI 48341

ICIS **1011609823**
N/A

Site 6 of 16 in cluster A

Actual:
939 ft.

ICIS:

Enforcement Action ID: 05-2007-9913
FRS ID: 110000404795
Program ID: FRS 110000404795
Action Name: GENERAL MOTORS CORPORATION - PONTIAC CENTERPOINT CAMPUS
Facility Name: GENERAL MOTORS CORPORATION
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008H AO For Corrective Action
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2007-9913
FRS ID: 110000404795
Program ID: NCDB I05#20010327OODRB 1
Action Name: GENERAL MOTORS CORPORATION - PONTIAC CENTERPOINT CAMPUS
Facility Name: GENERAL MOTORS TRUCK GROUP
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008H AO For Corrective Action
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2007-9913
FRS ID: 110000404795
Program ID: NEI NEI11844
Action Name: GENERAL MOTORS CORPORATION - PONTIAC CENTERPOINT CAMPUS
Facility Name: Not reported
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008H AO For Corrective Action
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2007-9913
FRS ID: 110000404795
Program ID: TRIS 48058GMCTR820OP
Action Name: GENERAL MOTORS CORPORATION - PONTIAC CENTERPOINT CAMPUS
Facility Name: GMC TRUCK GROUP PONTIAC EAST ASSEMBLY
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008H AO For Corrective Action
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2007-9913
FRS ID: 110000404795
Program ID: RBLC 23067
Action Name: GENERAL MOTORS CORPORATION - PONTIAC CENTERPOINT CAMPUS
Facility Name: GENERAL MOTORS- PONTIAC EAST ASSEMBLY
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008H AO For Corrective Action

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK GROUP PONTIAC EAST ASSEMBLY (Continued)

1011609823

Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2007-9913
FRS ID: 110000404795
Program ID: RCRAINFO MID005356902
Action Name: GENERAL MOTORS CORPORATION - PONTIAC CENTERPOINT CAMPUS
Facility Name: GM TRUCK GROUP PONTIAC EAST ASSEM.
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155

Enforcement Action Type: RCRA 3008H AO For Corrective Action
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2007-9913
FRS ID: 110000404795
Program ID: AIRS/AFS 2612500182
Action Name: GENERAL MOTORS CORPORATION - PONTIAC CENTERPOINT CAMPUS
Facility Name: GENERAL MOTORS CORP
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155

Enforcement Action Type: RCRA 3008H AO For Corrective Action
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2004-4100
FRS ID: 110000404795
Program ID: NEI NEI11844
Action Name: GENERAL MOTORS CORPORATION
Facility Name: Not reported
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155

Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2004-4100
FRS ID: 110000404795
Program ID: AIRS/AFS 2612500182
Action Name: GENERAL MOTORS CORPORATION
Facility Name: GENERAL MOTORS CORP
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155

Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2004-4100
FRS ID: 110000404795
Program ID: FRS 110000404795
Action Name: GENERAL MOTORS CORPORATION
Facility Name: GENERAL MOTORS CORPORATION
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155

Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: Oakland
EPA Region #: 6

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK GROUP PONTIAC EAST ASSEMBLY (Continued)

1011609823

Enforcement Action ID: 05-2004-4100
FRS ID: 110000404795
Program ID: TRIS 48058GMCTR820OP
Action Name: GENERAL MOTORS CORPORATION
Facility Name: GMC TRUCK GROUP PONTIAC EAST ASSEMBLY
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2004-4100
FRS ID: 110000404795
Program ID: RCRAINFO MID005356902
Action Name: GENERAL MOTORS CORPORATION
Facility Name: GM TRUCK GROUP PONTIAC EAST ASSEM.
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2004-4100
FRS ID: 110000404795
Program ID: RBLC 23067
Action Name: GENERAL MOTORS CORPORATION
Facility Name: GENERAL MOTORS- PONTIAC EAST ASSEMBLY
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: Oakland
EPA Region #: 6

Enforcement Action ID: 05-2004-4100
FRS ID: 110000404795
Program ID: NCDB I05#20010327OODRB 1
Action Name: GENERAL MOTORS CORPORATION
Facility Name: GENERAL MOTORS TRUCK GROUP
Facility Address: 2100 SOUTH OPDYKE ROAD PONTIAC MI 483413155
PONTIAC, Michigan 483413155
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: Oakland
EPA Region #: 6

Program ID: AIRS/AFS 2612500182
Facility Name: GENERAL MOTORS CORPORATION
Address: 2100 SOUTH OPDYKE ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110000404795
Facility Name: GENERAL MOTORS CORPORATION
Address: 2100 SOUTH OPDYKE ROAD
Tribal Indicator: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK GROUP PONTIAC EAST ASSEMBLY (Continued)

1011609823

Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	NCDB I05#20010327OODRB 1
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	NEI NEI11844
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	RBLC 23067
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	RCRAINFO MID005356902
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	TRIS 48058GMCTR8200P
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	AIRS/AFS 2612500182
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	FRS 110000404795
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK GROUP PONTIAC EAST ASSEMBLY (Continued)

1011609823

NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	NCDB I05#20010327OODRB 1
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	NEI NEI11844
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	RBLC 23067
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	RCRAINFO MID005356902
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	TRIS 48058GMCTR820OP
Facility Name:	GENERAL MOTORS CORPORATION
Address:	2100 SOUTH OPDYKE ROAD
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

**A7
Target
Property**

**GENERAL MOTORS COMPANY
2100 S OPDYKE RD
PONTIAC, MI 48341**

RCRA-LQG

**1012180588
MIK491326427**

Site 7 of 16 in cluster A

**Actual:
939 ft.**

RCRA-LQG:
Date form received by agency: 10/13/2009
Facility name: GENERAL MOTORS COMPANY
Facility address: 2100 S OPDYKE RD
PONTIAC, MI 48341
EPA ID: MIK491326427
Contact: ROBERT FENN
Contact address: 2100 S OPDYKE RD
PONTIAC, MI 48341

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS COMPANY (Continued)

1012180588

Contact country: Not reported
Contact telephone: (313) 999-6013
Contact email: Not reported
EPA Region: 05
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: GENERAL MOTORS CORP (PROPERTY OWNER)
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/19/1970
Owner/Op end date: Not reported

Owner/operator name: GENERAL MOTORS COMPANY
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/10/2009
Owner/Op end date: Not reported

Owner/operator name: GENERAL MOTORS CORP (PROPERTY OWNER)
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/19/1970
Owner/Op end date: Not reported

Owner/operator name: GENERAL MOTORS COMPANY
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/10/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS COMPANY (Continued)

1012180588

Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

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

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

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

Violation Status: No violations found

**A8
Target
Property**

**ELECTRICAL SUBSTATION #1
2100 SOUTH OPDYKE ROAD
PONTIAC, MI 48341**

**PCB TRANSFORMER 1011969637
N/A**

Site 8 of 16 in cluster A

**Actual:
939 ft.**

PCB TRANSFORMER:

Company name: General Motors Truck Group, Pontiac East Assembly
Company address: MC 483-606-186, 2100 South Opdyke Road
Pontiac, MI 48341-3155
Contact: Ken Gembel
Contact phone: 248-452-2781
Transformer location ID: 1343
Transformer box number: 1
Record ID: 1361
Document ID: 00324
Number of transformers: 2
Weight lbs: Not reported
Weight kgs: 1364
Flammable: N
Office region: 5
Officer title: Plant Manager
Officer name: Kurt M. Wiese

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ELECTRICAL SUBSTATION #1 (Continued)

1011969637

Date assigned: 12/21/1998

A9
Target
Property

GM-PONTIAC ASSEMBLY CENTER
2100 SOUTH OPDYKE ROAD
PONTIAC, MI 48341

NPDES S107792210
N/A

Site 9 of 16 in cluster A

Actual:
939 ft.

MI NPDES:
Permit Number: MIS110441
Permittee PO Box: N
Permittee Email: Not reported
Issue Date: 7/28/2006
Effective Date: 7/28/2006
Expiration Date: 4/1/2011
Permittee Name: GM-Pontiac Assembly Center
Permittee Address: 2100 South Opdyke Road
Permittee Addr2: Mail Code: 483-606-186
Permittee City,St,Zip: Pontiac, MI 48341
Permit Type: COC
Facility Name 2: Not reported
Facility Name 3: Not reported
Facility Name 4: Not reported
Designed Name: GM-Pontiac Assembly Center
Latitude: 42.628610999999999
Lat Direction: N
Lat Type Code: LAT
Longitude: -83.265000000000001
Lon Direction: W
Lon Type Code: LON
Hydrologic Unit Code: 4090003

A10
Target
Property

2100 SOUTH UPDYKE
PONTIAC, MI

SPILLS S108249525
N/A

Site 10 of 16 in cluster A

Actual:
939 ft.

MI PEAS:
Incident Date: 12/20/2006 08:35 AM
Date Of PEAS Call: Not reported
Complainant / Company: Not reported
Complainant Address: Not reported
Company Involved: GM
DEQ Division Involved: WHMD
Incident Description: Not reported
Description: CONTRACTOR'S ROLL-OFF TRUCK HIT AN OVERHEAD TRESTLE WHICH CAUSED A RUPTURE TO ONE OF LINES THAT BROKE; THEN 50 GALLONS OF POWER STEERING FLUID SPILLED ONTO CONCRETE BUT DID GET TO A SOILED AREA. DID NOT REACH A SEWER. HE HAS CALLED 911 ALREADY.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A11
Target
Property

2100 SOUTH OPDYKE RD WASTE WATER TREATMENT FACILITY
2100 SOUTH OPDYKE RD WASTE WATER TREATMENT FACILITY
PONTIAC, MI 48341

ERNS **96516826**
N/A

Site 11 of 16 in cluster A

Actual:
939 ft.

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A12
Target
Property

GENERAL MOTORS TRUCK GROUP
2100 SO OPDYKE RD
PONTIAC, MI 48341

FTTS **1007279252**
HIST FTTS **N/A**

Site 12 of 16 in cluster A

Actual:
939 ft.

FTTS INSP:
Inspection Number: 20010327OODRB 1
Region: 05
Inspection Date: 03/27/01
Inspector: BARNA
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:
Inspection Number: 20010327OODRB 1
Region: 05
Inspection Date: Not reported
Inspector: BARNA
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

A13
Target
Property

GM CORP TRUCK GROUP
2100 S OPDYKE RD
PONTIAC, MI 48341

AST **U003326900**
N/A

Site 13 of 16 in cluster A

Actual:
939 ft.

AST:
Type: ACTIVE
Owner Name: Motors Liquidation Co
Owner Address: 500 Rebaussabce Dr Ste 1400
Owner City,St,Zip: Detroit, MI 48243
Owner County: USA
Owner Contact: Not reported
Owner Telephone: Not reported
Facility ID: 91063181
District: SE Michigan District Office
Contact: Robert W Hare
Facility Phone: (248) 225-3277
Tank ID: 2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM CORP TRUCK GROUP (Continued)

U003326900

Tank Status: Removed from Premises
Capacity: 20000
Install Date: Not reported
Close Date: Oct 6 2009
Content: Flammable Liquid
Latitude: 42.6101440000
Longitude: -83.2483580000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

Type: ACTIVE
Owner Name: Motors Liquidation Co
Owner Address: 500 Rebaussabce Dr Ste 1400
Owner City,St,Zip: Detroit, MI 48243
Owner County: USA
Owner Contact: Not reported
Owner Telephone: Not reported
Facility ID: 91063181
District: SE Michigan District Office
Contact: Robert W Hare
Facility Phone: (248) 225-3277
Tank ID: 3
Tank Status: Removed from Premises
Capacity: 20000
Install Date: Not reported
Close Date: Oct 6 2009
Content: Flammable Liquid
Latitude: 42.6101440000
Longitude: -83.2483580000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

Type: ACTIVE
Owner Name: Motors Liquidation Co
Owner Address: 500 Rebaussabce Dr Ste 1400
Owner City,St,Zip: Detroit, MI 48243
Owner County: USA
Owner Contact: Not reported
Owner Telephone: Not reported
Facility ID: 91063181
District: SE Michigan District Office
Contact: Robert W Hare
Facility Phone: (248) 225-3277
Tank ID: 7
Tank Status: Currently In Use

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM CORP TRUCK GROUP (Continued)

U003326900

Capacity: 12000
Install Date: Apr 21 2008
Close Date: Not reported
Content: FL/CL
Latitude: 42.6101440000
Longitude: -83.2483580000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

Type: ACTIVE
Owner Name: Motors Liquidation Co
Owner Address: 500 Rebaussabce Dr Ste 1400
Owner City,St,Zip: Detroit, MI 48243
Owner County: USA
Owner Contact: Not reported
Owner Telephone: Not reported
Facility ID: 91063181
District: SE Michigan District Office
Contact: Robert W Hare
Facility Phone: (248) 225-3277
Tank ID: 1
Tank Status: Removed from Premises
Capacity: 20000
Install Date: Not reported
Close Date: Oct 6 2009
Content: Flammable Liquid
Latitude: 42.6101440000
Longitude: -83.2483580000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

Type: ACTIVE
Owner Name: Motors Liquidation Co
Owner Address: 500 Rebaussabce Dr Ste 1400
Owner City,St,Zip: Detroit, MI 48243
Owner County: USA
Owner Contact: Not reported
Owner Telephone: Not reported
Facility ID: 91063181
District: SE Michigan District Office
Contact: Robert W Hare
Facility Phone: (248) 225-3277
Tank ID: 4
Tank Status: Currently In Use
Capacity: 20000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM CORP TRUCK GROUP (Continued)

U003326900

Install Date: Not reported
Close Date: Not reported
Content: FL-SOLVENTS
Latitude: 42.6101440000
Longitude: -83.2483580000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

A14
Target
Property

GENERAL MOTORS-PONTIAC ASSEMBLY PLANT
2100 SOUTH UPDYKE RD.
PONTIAC, MI

SPILLS **S109257841**
N/A

Site 14 of 16 in cluster A

Actual:
939 ft.

MI PEAS:
Incident Date: 12/3/2007 5:52:00 PM
Date Of PEAS Call: Not reported
Complainant / Company: DON HARRIS/GENERAL MOTORS-PONTIAC
Complainant Address: 2100 SOUTH UPDYKE RD.
Company Involved: GENERAL MOTORS-PONTIAC ASSEMBLY PLANT
DEQ Division Involved: WB
Incident Description: Not reported
Description: RINSE LINE FOR PAINTING PROCESS SPRANG A LEAK & LEAK WENT INTO STORM SEWER & FROM THERE WENT TO RETENTION POND. LEAK RATE IS 2 GALLONS PER MIN. CURRENTLY WORKING ON REPAIRING VALVE FOR RINSE LINE. ALT # (CELL) 313-999-6012. LEAK IS RO-H2O W/ ELPO-PAINT PROCESS PARTICLES

A15
Target
Property

2100 S. UPDYKE
PONTIAC, MI

SPILLS **S106914756**
N/A

Site 15 of 16 in cluster A

Actual:
939 ft.

MI PEAS:
Incident Date: 05/06/2005 09:57 AM
Date Of PEAS Call: Not reported
Complainant / Company: Not reported
Complainant Address: Not reported
Company Involved: General Motors
DEQ Division Involved: RRD
Incident Description: Not reported
Description: Overfill of diesel tank; had diesel fuel released, about 25 to 50 gallons released into the ground.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A16
Target
Property
GENERAL MOTORS CORPORATION, PONTIAC ASSY CENTER
2100 S. OPDYKE RD.
PONTIAC, MI 48341

AIRS **S108232676**
N/A

Site 16 of 16 in cluster A

Actual:
939 ft.

AIRS:
State Registration Number: B4031
Naics Code: 336112
Contact Name: Not reported
Contact Phone: Not reported
Contact Address: Not reported
Contact City,St,Zip: Not reported
Permit Number: Not reported
Date Received: Not reported
State Registration Number: B4031
Country: USA
Application Reason: Not reported
Record Type: SI
State County FIPS: 26125
Facility Category: 01
SIC Primary: 3711
Tribal Code: 000
EI Year: 2002

17
North
< 1/8
0.003 mi.
18 ft.

MOTOWN MOTION PICTURES LLC
1999 CENTERPOINT PARKWAY
PONTIAC, MI 48341

BEA **S109569569**
N/A

Relative:
Lower

BEA:
Secondary Address: Not reported
BEA Number: 4183
District: Southeast MI
Date Received: 5/26/2009 12:59:00 AM
Submitter Name: Motown Motion Pictures LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Different Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: RRD

Actual:
920 ft.

18
East
< 1/8
0.007 mi.
39 ft.

MOBIL OIL CORP
1501 OPDYKE AVE
BLOOMFIELD HILLS, MI 48304

RCRA-NonGen **1000528623**
FINDS **MID985610427**

Relative:
Lower

RCRA-NonGen:
Date form received by agency: 12/31/2001
Facility name: MOBIL OIL CORP
Facility address: 1501 OPDYKE AVE
BLOOMFIELD HILLS, MI 48304
EPA ID: MID985610427
Mailing address: 30 OAK HOLLOW ST
SOUTHFIELD, MI 48034

Actual:
929 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL OIL CORP (Continued)

1000528623

Contact: DAVID WRIGHT
Contact address: 1501 OPDYKE AVE
BLOOMFIELD HILLS, MI 48304
Contact country: Not reported
Contact telephone: (313) 948-5028
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
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

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

Handler Activities Summary:

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

Universal Waste Summary:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL OIL CORP (Continued)

1000528623

Generated waste on-site: No

Waste type: Pesticides

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: Thermostats

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: MERCURY SWITCHES

Accumulated waste on-site: No

Generated waste on-site: No

Historical Generators:

Date form received by agency: 04/09/1991

Facility name: MOBIL OIL CORP

Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003655660

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.

19
NNE
< 1/8
0.017 mi.
88 ft.

DET EDISON OPDYKE SERV CENTER
1670 OPDYKE
PONTIAC, MI 48302

UST **U003322244**
N/A

Relative:
Lower

UST:

Facility ID: 00011573

Facility Type: CLOSED

Latitude: 42.6170250000

Longitude: -83.2487530000

Owner Name: The Levine Group Inc

Owner Address: 1471 S WOODWARD SUITE 10

Owner City,St,Zip: BLOOMFIELD HILLS, MI 48302

Owner Country: USA

Owner Contact: Not reported

Actual:
930 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DET EDISON OPDYKE SERV CENTER (Continued)

U003322244

Owner Phone: (313) 644-1244
Contact: KIM ROBERTS
Contact Phone: (313) 237-8226
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 124
Tank Status: Removed from Ground
Capacity: 6000
Install Date: May 2 1972
Product: Gasoline
Remove Date: Apr 4 1992
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel,Unknown
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 125
Tank Status: Removed from Ground
Capacity: 6000
Install Date: May 2 1984
Product: Diesel
Remove Date: Apr 4 1992
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

20
West
< 1/8
0.019 mi.
102 ft.

IRVIN AUTOMOTIVE PRODUCTS
2600 CENTERPOINT PKWY
PONTIAC, MI 48341

RCRA-CESQG **1007370890**
MANIFEST **MIK278245733**

Relative:
Lower

RCRA-CESQG:
Date form received by agency: 05/18/2004
Facility name: IRVIN AUTOMOTIVE PRODUCTS
Facility address: 2600 CENTERPOINT PKWY
PONTIAC, MI 48341
EPA ID: MIK278245733
Contact: GARY VITALE
Contact address: 2600 CENTERPOINT PKWY
PONTIAC, MI 48341
Contact country: Not reported
Contact telephone: (248) 451-4180
Contact email: Not reported
EPA Region: 05

Actual:
923 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

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: JACK FEDORCHAK
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/01/2003
Owner/Op end date: Not reported

Owner/operator name: JACK FEDORCHAK
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/01/2003
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
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

Universal Waste Summary:

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

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

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

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

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

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

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

Violation Status: No violations found

WI MANIFEST:

Year: 05
EPA ID: MIK278245733
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: 0
Contact Telephone: 0
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -

Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Year: 06
EPA ID: MIK278245733
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Telephone: Not reported
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

WI MANIFEST TRANS: -

Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Year: 07
EPA ID: MIK278245733
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: 0
Contact Telephone: 0
Contact Extention: Not reported
Contact Email Address: Not reported

WI MANIFEST SHIP: -

Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -

Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Year: 04
EPA ID: MIK278245733
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Telephone: Not reported
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -
Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

21
West
< 1/8
0.031 mi.
165 ft.

JACKSON AUTOMOTIVE GROUP
2800 CENTERPOINT PKWY
PONTIAC, MI 48341

RCRA-CESQG
FINDS
1001228806
MIR000034868

Relative:
Higher

RCRA-CESQG:

Actual:
954 ft.

Date form received by agency: 05/01/2005
Facility name: JACKSON AUTOMOTIVE GROUP
Facility address: 2800 CENTERPOINT PKWY
PONTIAC, MI 48341
EPA ID: MIR000034868
Contact: CHANTAL BOULET
Contact address: 2800 CENTERPOINT PKWY
PONTIAC, MI 48341
Contact country: Not reported
Contact telephone: (248) 205-3884
Contact email: Not reported
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

Owner/Operator Summary:

Owner/operator name: EDSCHA NORTH AMERICA BOARD OF DIRECTORS
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

Owner/operator name: CHARLES FISHER
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 05/16/2005
Owner/Op end date: Not reported

Handler Activities Summary:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKSON AUTOMOTIVE GROUP (Continued)

1001228806

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

Universal Waste Summary:

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

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

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

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

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

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

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

Historical Generators:

Date form received by agency: 02/22/2000
Facility name: JACKSON AUTOMOTIVE GROUP
Site name: DUPONT HERBERTS AUTOMOTIVE
Classification: Large Quantity Generator

Date form received by agency: 12/31/1999
Facility name: JACKSON AUTOMOTIVE GROUP
Classification: Not a generator, verified

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKSON AUTOMOTIVE GROUP (Continued)

1001228806

Date form received by agency: 02/09/1999
Facility name: JACKSON AUTOMOTIVE GROUP
Classification: Small Quantity Generator

Date form received by agency: 08/21/1998
Facility name: JACKSON AUTOMOTIVE GROUP
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/16/1999
Date achieved compliance: 09/07/1999
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/16/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 02/16/1999
Date achieved compliance: 09/07/1999
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/16/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 02/09/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/07/1999
Evaluation lead agency: State

Evaluation date: 02/09/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/07/1999
Evaluation lead agency: State

FINDS:

Registry ID: 110012610497

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKSON AUTOMOTIVE GROUP (Continued)

1001228806

their precursors, as well as hazardous air pollutants (HAPs).

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

22
North
< 1/8
0.051 mi.
269 ft.

JERRY ARMSTRONGS INC
1500 S OPDYKE RD
PONTIAC, MI 48341

UST U003326526
N/A

Relative:
Lower

UST:

Actual:
929 ft.

Facility ID: 00038784
Facility Type: ACTIVE
Latitude: 42.6196060000
Longitude: -83.2488940000
Owner Name: Jerry Armstrongs Inc
Owner Address: 8750 River Run Dr
Owner City,St,Zip: White Lake, MI 48386
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 681-1080
Contact: B Groves Or J Armstrong
Contact Phone: (248) 681-1080
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Currently In Use
Capacity: 15000
Install Date: Oct 27 1995
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled
Piping Type: Pressure
Constr Material: Double Walled,Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 2
Tank Status: Currently In Use
Capacity: 12000
Install Date: Oct 27 1995
Product: Gasoline

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JERRY ARMSTRONGS INC (Continued)

U003326526

Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled
Piping
Piping Material: Double Walled
Piping Type: Pressure
Constr Material: Double Walled,Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 3
Tank Status: Currently In Use
Capacity: 12000
Install Date: Oct 27 1995
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled
Piping
Piping Material: Double Walled
Piping Type: Pressure
Constr Material: Double Walled,Fiberglass Reinforced plastic
Impressed Device: No

23
NE
< 1/8
0.091 mi.
483 ft.

B H TOWN & COUNTRY CLEANERS
1607 S OPDYKE RD
BLOOMFIELD TWP, MI 48304

DRYCLEANERS S106439494
N/A

Relative:
Lower

DRYCLEANERS:
Facility Id: 6300175
New Owner As Of: Not reported
Owner/operator Name: MS. JAE SOOK JEON- LEE
Owner/operator Phone: 248-858-8750
Manager/contact Name: MR. JEON
Last Mdeq Inspection: April 16, 2008
Current Year Fee: Not reported
Total Machines: 1
Actual Machines: 1
Pounds: 35
Dryers: 0
Type: Commercial dry to dry
Status: In Compliance - Licence Issued
Last License # Issued: 9063 for 2009

Actual:
930 ft.

24
NNE
< 1/8
0.095 mi.
499 ft.

B-H TOWN AND COUNTRY CLEANERS
1607 S OPDYKE RD
BLOOMFIELD HILLS, MI 48304

RCRA-CESQG 1000828714
FINDS MID985657865

Relative:
Lower

RCRA-CESQG:
Date form received by agency: 08/22/2006
Facility name: B-H TOWN AND COUNTRY CLEANERS
Facility address: 1607 S OPDYKE RD

Actual:
927 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B-H TOWN AND COUNTRY CLEANERS (Continued)

1000828714

EPA ID: BLOOMFIELD HILLS, MI 48304
Contact: MID985657865
Contact address: JAE SOOK JEON-LEE
1607 S OPDYKE RD
BLOOMFIELD HILLS, MI 48304
Contact country: Not reported
Contact telephone: (248) 358-8750
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: JAE SOOK JEON-LEE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/15/2005
Owner/Op end date: Not reported

Owner/operator name: JAE SOOK JEON-LEE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/15/2005
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B-H TOWN AND COUNTRY CLEANERS (Continued)

1000828714

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

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

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

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

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

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

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

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

Historical Generators:

Date form received by agency: 05/01/2003
Facility name: B-H TOWN AND COUNTRY CLEANERS
Classification: Small Quantity Generator

Date form received by agency: 09/17/1998
Facility name: B-H TOWN AND COUNTRY CLEANERS
Classification: Not a generator, verified

Date form received by agency: 02/22/1993
Facility name: B-H TOWN AND COUNTRY CLEANERS
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003679797

Environmental Interest/Information System

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B-H TOWN AND COUNTRY CLEANERS (Continued)

1000828714

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.

B25
East
1/8-1/4
0.125 mi.
661 ft.

SOUTH BOULEVARD & UPDYKE STATION INC
1501 S OPDYKE RD
BLOOMFIELD, MI 48304

LUST **U003426041**
UST **N/A**

Site 1 of 3 in cluster B

Relative:
Lower

LUST:

Facility ID: 00016713
Source: STATE OF MICHIGAN
Owner Name: South Boulevard & Updyke Station Inc
Owner Address: 1501 S Opdyke
Owner City,St,Zip: Bloomfield, MI 48304
Owner Contact: Not reported
Owner Phone: (248) 745-9337
Country: USA
District: SE Michigan District Office
Site Name: Mobil SS # 03-M5G
Latitude: 42.5428770000
Longitude: -83.1652120000
Date of Collection: 19-04-2007
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0224-04
Release Date: Jun 3 2004
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1595-91
Release Date: Aug 5 1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: May 17 1996

UST:

Facility ID: 00016713
Facility Type: ACTIVE
Latitude: 42.5428770000
Longitude: -83.1652120000
Owner Name: South Boulevard & Updyke Station Inc
Owner Address: 1501 S Opdyke
Owner City,St,Zip: Bloomfield, MI 48304
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 745-9337

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH BOULEVARD & UPDYKE STATION INC (Continued)

U003426041

Contact: Fahmi Awdish
Contact Phone: (248) 745-9337
Date of Collection: 19-04-2007
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 1
Tank Status: **Currently In Use**
Capacity: 12000
Install Date: Oct 1 1985
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 2
Tank Status: **Currently In Use**
Capacity: 10000
Install Date: Jul 1 1983
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 3
Tank Status: **Currently In Use**
Capacity: 6000
Install Date: Jul 1 1983
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Gravity Fed?
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 4
Tank Status: **Removed from Ground**
Capacity: 8000
Install Date: Apr 22 1983

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH BOULEVARD & UPDYKE STATION INC (Continued)

U003426041

Product: Gasoline
Remove Date: Sep 28 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 5
Tank Status: Removed from Ground
Capacity: 550
Install Date: Apr 21 1968
Product: Used Oil
Remove Date: Aug 2 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 6
Tank Status: Currently In Use
Capacity: 1000
Install Date: Jul 1 1983
Product: Used Oil
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Gravity Fed?
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

B26
East
1/8-1/4
0.125 mi.
661 ft.

SOUTH BLVD. & UPDYKE STATION INC.
1501 S. OPDYKE
BLOOMFIELD HILLS, MI 48304

AUL S110092398
N/A

Site 2 of 3 in cluster B

Relative:
Lower

AUL:

Actual:
922 ft.

Status: Pending
Site Name: Not reported
Property: on-site location
Land Use Restriction Type: RC
Program Type: Part 213
Program Support Assigned User: Not reported
Program Support Assigned Date: Not reported
Legal Description Of Property: Migrated
Based On The Deq Ref #: Not reported
MDEQ Reference Number: RC-RRD-213-07-066
Property Or Description Restricted Area: Migrated
Lead Division: STD
File Name Of Hyperlinked Legal Doc: Not reported
Mapped Polygon S Area In Acres: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH BLVD. & UPDYKE STATION INC. (Continued)

S110092398

Mapped Polygon S Area In Square Miles: Not reported
Date Data Entry Started: Not reported
Date Data Entry Finished: Not reported
Individual Or Staff Assoc With The Mapping: Not reported
Program Used To Map Restricted Features: Not reported
Map Comments: Not reported
Comment: Request received on 8/29/2007 Charles Stichney, Groundwater & Envir. Services, 800-368-0337, Ext. 3390. 10/1/2009, Laura Schoeff, GES, called to get a number, but was given the old DEQ reference number that is still pending for her use.

Date Legal Paperwork Stamped/Filed/Register Of Deeds: Not reported
Commercial I Land Use Restriction: 0
Commercial Ii Land Use Restriction: 0
Commercial Iii 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
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

B27
East
1/8-1/4
0.126 mi.
663 ft.
MOBIL STATION #03-M5G (FORMER)
1501 SOUTH OPDYKE
BLOOMFIELD TOWNSHIP, MI 48303
Site 3 of 3 in cluster B

BEA **S108236803**
N/A

Relative:
Lower

BEA:
Secondary Address: Not reported
BEA Number: 3371
District: Southeast MI
Date Received: 11/17/2006 12:59:00 AM
Submitter Name: South Boulevard & Opdyke Station, Inc.
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: schlaufj
Division Assigned: Storage Tank Division

Actual:
922 ft.

Secondary Address: Not reported
BEA Number: 3372
District: Southeast MI
Date Received: 11/17/2006 12:59:00 AM
Submitter Name: South Boulevard & Opdyke RealEstate, LLC
Petition Determination: No Request
Petition Disclosure: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOBIL STATION #03-M5G (FORMER) (Continued)

S108236803

Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: schlaufj
Division Assigned: Storage Tank Division

C28
ENE
1/8-1/4
0.138 mi.
727 ft.

KMART #4323
975 S OPDYKE ROAD
PONTIAC, MI 48084

Site 1 of 2 in cluster C

LUST **U003329710**
UST **N/A**

Relative:
Lower

LUST:

Facility ID: 00000747
Source: STATE OF MICHIGAN
Owner Name: Kmart Corp
Owner Address: 3100 W Big Beaver Rd
Owner City,St,Zip: Troy, MI 48084-3004
Owner Contact: Bob Keeler
Owner Phone: (248) 614-1310
Country: USA
District: SE Michigan District Office
Site Name: K-mart #4323
Latitude: 42.6212740000
Longitude: -83.2486680000
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-2420-90
Release Date: Nov 16 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Sep 8 1997

UST:

Facility ID: 00000747
Facility Type: CLOSED
Latitude: 42.6212740000
Longitude: -83.2486680000
Owner Name: Kmart Corp
Owner Address: 3100 W Big Beaver Rd
Owner City,St,Zip: Troy, MI 48084-3004
Owner Country: USA
Owner Contact: Bob Keeler
Owner Phone: (248) 614-1310
Contact: P.M. OLMSTEAD
Contact Phone: (734) 334-3540
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMART #4323 (Continued)

U003329710

Method of Collection: Address Matching-House Number

Tank ID: 1

Tank Status: **Removed from Ground**

Capacity: 1000

Install Date: Apr 9 1971

Product: Used Oil

Remove Date: Feb 16 1990

Tank Release Detection: Not reported

Pipe Release Detection: Not reported

Piping Material: Galvanized Steel

Piping Type: Not reported

Constr Material: Asphalt Coated or Bare Steel

Impressed Device: No

C29
ENE
1/8-1/4
0.138 mi.
727 ft.

KMART CORPORATION
975 S OPDYKE RD
PONTIAC, MI 48341

RCRA-NonGen **1000156262**
FINDS **MID137378915**

Site 2 of 2 in cluster C

Relative:
Lower

RCRA-NonGen:

Date form received by agency: 03/07/1995

Facility name: KMART CORPORATION

Facility address: 975 S OPDYKE RD
PONTIAC, MI 48341

EPA ID: MID137378915

Contact: MICHAEL BOYNTON

Contact address: 975 S OPDYKE RD
PONTIAC, MI 48341

Contact country: Not reported

Contact telephone: (248) 334-3541

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

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 01/03/1970

Owner/Op end date: Not reported

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

Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 01/03/1970

Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMART CORPORATION (Continued)

1000156262

Handler Activities Summary:

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

Universal Waste Summary:

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

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

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

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

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

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

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

Historical Generators:

Date form received by agency:	03/06/1995
Facility name:	KMART CORPORATION
Classification:	Not a generator, verified

Violation Status:	No violations found

FINDS:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMART CORPORATION (Continued)

1000156262

Registry ID: 110008449045

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.

30
North
1/8-1/4
0.166 mi.
878 ft.

SWINTERS SVC CTR
807 SOUTH BLVD E
PONTIAC, MI 48341

RCRA-NonGen **1000827831**
FINDS **MID985645639**

Relative:
Lower

RCRA-NonGen:

Date form received by agency: 12/31/2001

Facility name: SWINTERS SVC CTR

Facility address: 807 SOUTH BLVD E
PONTIAC, MI 48341

EPA ID: MID985645639

Contact: JOHN SWINTER

Contact address: 807 SOUTH BLVD E
PONTIAC, MI 48341

Contact country: Not reported

Contact telephone: (313) 332-9810

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

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 01/01/2002

Owner/Op end date: Not reported

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

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 01/01/2002

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SWINTERS SVC CTR (Continued)

1000827831

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

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

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

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

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

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

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

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

Historical Generators:

Date form received by agency: 07/13/1992
Facility name: SWINTERS SVC CTR
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003672963

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SWINTERS SVC CTR (Continued)

1000827831

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.

**31
NW
1/4-1/2
0.298 mi.
1574 ft.**

**SOUTH BOULEVARD COMMERCIAL BUILDING
655 SOUTH BOULEVARD EAST
PONTIAC, MI 48341**

**BEA S108895983
N/A**

**Relative:
Lower**

BEA:
Secondary Address: (a.k.a. 585 South Boulevard East)
BEA Number: 3684
District: Southeast MI
Date Received: 10/9/2007 12:59:00 AM
Submitter Name: Pontiac Center, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

**Actual:
929 ft.**

Secondary Address: (a.k.a., 585 South Boulevard East)
BEA Number: 3683
District: Southeast MI
Date Received: 10/9/2007 12:59:00 AM
Submitter Name: Detroit Managers, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

**32
NNE
1/4-1/2
0.328 mi.
1730 ft.**

**WATER & SEWER
522 S OPDYKE RD
PONTIAC, MI 48341**

**LUST U003323145
UST N/A**

**Relative:
Lower**

LUST:
Facility ID: 00014732
Source: STATE OF MICHIGAN
Owner Name: City of Pontiac
Owner Address: 47450 Woodward Ave
Owner City,St,Zip: Pontiac, MI 48342-2245
Owner Contact: Not reported
Owner Phone: (248) 857-7611
Country: USA
District: SE Michigan District Office
Site Name: Water & Sewer
Latitude: 42.6274380000

**Actual:
913 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WATER & SEWER (Continued)

U003323145

Longitude: -83.2494470000
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-0281-99
Release Date: Mar 18 1999
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Feb 7 2002

UST:

Facility ID: 00014732
Facility Type: CLOSED
Latitude: 42.6274380000
Longitude: -83.2494470000
Owner Name: City of Pontiac
Owner Address: 47450 Woodward Ave
Owner City,St,Zip: Pontiac, MI 48342-2245
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 857-7611
Contact: FRANK OLES
Contact Phone: (248) 857-7665
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 5000
Install Date: Mar 7 1963
Product: Gasoline,REGULAR
Remove Date: Aug 24 1989
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel,I.P.S.
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: **Removed from Ground**
Capacity: 1500
Install Date: Jan 1 1989
Product: Gasoline
Remove Date: Apr 1 1999
Tank Release Detection: Groundwater Monitoring,Manual Tank Gauging

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WATER & SEWER (Continued)

U003323145

Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Cathodically Protected,POLY WRAP
Piping Type: Repaired,Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 1500
Install Date: Mar 7 1963
Product: Gasoline
Remove Date: Apr 1 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Repaired,Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 2000
Install Date: Mar 6 1985
Product: Gasoline
Remove Date: Apr 1 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Repaired,Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

33
WNW
1/4-1/2
0.350 mi.
1850 ft.

OFFICE BUILDING
585 SOUTH BOULEVARD EAST
PONTIAC, MI

BEA S108986833
N/A

Relative:
Lower

BEA:
Secondary Address: Not reported
BEA Number: 3763
District: Southeast MI
Date Received: 12/27/2007 12:59:00 AM
Submitter Name: Electronic Data Systems Corporation
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

Actual:
930 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

34
NNE
1/4-1/2
0.381 mi.
2011 ft.

AUBURN PONTIAC
500 S OPDYKE RD
PONTIAC, MI 48341

RCRA-SQG
FINDS
LUST
UST

1000269103
MID006958698

Relative:
Lower

RCRA-SQG:

Date form received by agency: 04/12/2009

Facility name: AUBURN PONTIAC

Facility address: 500 S OPDYKE RD

PONTIAC, MI 48341

EPA ID: MID006958698

Contact: JEFF SCAIFE

Contact address: 500 S OPDYKE RD

PONTIAC, MI 48341

Contact country: Not reported

Contact telephone: (248) 332-9300

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: WILLIAM HAHN

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 01/01/1970

Owner/Op end date: Not reported

Owner/operator name: WILLIAM HAHN

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 01/01/1970

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUBURN PONTIAC (Continued)

1000269103

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 01/27/2004
Facility name: AUBURN PONTIAC
Classification: Small Quantity Generator

Date form received by agency: 04/03/2003
Facility name: AUBURN PONTIAC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/17/1998
Facility name: AUBURN PONTIAC
Classification: Not a generator, verified

Date form received by agency: 09/29/1986
Facility name: AUBURN PONTIAC
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2004
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: Used Oil - Generators
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
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 - Pre-transport

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUBURN PONTIAC (Continued)

1000269103

Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
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: State Statute or Regulation
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2004
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 - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
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 - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2004
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: LDR - General
Date violation determined: 01/07/2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUBURN PONTIAC (Continued)

1000269103

Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
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 - Manifest
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
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: LDR - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2004
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 - Manifest
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
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: Used Oil - Generators
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUBURN PONTIAC (Continued)

1000269103

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
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 - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
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: State Statute or Regulation
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
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: State Statute or Regulation
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
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: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUBURN PONTIAC (Continued)

1000269103

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
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: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
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 - Pre-transport
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
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: LDR - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
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

Evaluation Action Summary:
Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 09/20/2004
Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUBURN PONTIAC (Continued)

1000269103

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 09/20/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 07/16/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/20/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 07/16/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 07/16/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 09/20/2004
Evaluation lead agency: State

FINDS:

Registry ID: 110008444424

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.

LUST:

Facility ID: 00008058
Source: STATE OF MICHIGAN
Owner Name: Auburn Pontiac Inc
Owner Address: 500 S Opdyke Rd
Owner City,St,Zip: Pontiac, MI 48341-3142
Owner Contact: Not reported
Owner Phone: (734) 332-9300

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUBURN PONTIAC (Continued)

1000269103

Country: USA
District: SE Michigan District Office
Site Name: Auburn Pontiac, Inc.
Latitude: 42.6279100000
Longitude: -83.2494660000
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-1184-90
Release Date: Oct 1 1992
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Oct 29 1993

Leak Number: C-1703-92
Release Date: Oct 1 1992
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Oct 29 1993

UST:

Facility ID: 00008058
Facility Type: CLOSED
Latitude: 42.6279100000
Longitude: -83.2494660000
Owner Name: Auburn Pontiac Inc
Owner Address: 500 S Opdyke Rd
Owner City,St,Zip: Pontiac, MI 48341-3142
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (734) 332-9300
Contact: MARIANNE SWEJKOWSKI
Contact Phone: (734) 332-9300
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 3
Tank Status: **Removed from Ground**
Capacity: 550
Install Date: Apr 1 1976
Product: ATF-DEXROXY
Remove Date: Nov 1 1992
Tank Release Detection: Manual Tank Gauging
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUBURN PONTIAC (Continued)

1000269103

Impressed Device: No

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 8000
Install Date: Apr 1 1976
Product: Gasoline
Remove Date: Sep 1 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 2000
Install Date: Apr 1 1976
Product: MOTOR OIL
Remove Date: Nov 1 1992
Tank Release Detection: Manual Tank Gauging
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: **Removed from Ground**
Capacity: 500
Install Date: Apr 1 1976
Product: Used Oil
Remove Date: Nov 1 1992
Tank Release Detection: Manual Tank Gauging
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

35
NNE
1/4-1/2
0.417 mi.
2200 ft.

MOOTE ELECTRICAL, INC
490 S OPDYKE RD
PONTIAC, MI 48341

LUST S105213449
N/A

Relative:
Lower

LUST:
Facility ID: 00009163
Source: STATE OF MICHIGAN
Owner Name: Moote Elec Inc
Owner Address: 490 S Opdyke Rd
Owner City,St,Zip: Pontiac, MI 48341-3119
Owner Contact: Not reported
Owner Phone: (248) 334-9941

Actual:
916 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOOTE ELECTRICAL, INC (Continued)

S105213449

Country: USA
District: SE Michigan District Office
Site Name: Moote Electrical Company 490
Latitude: 42.6283120000
Longitude: -83.2494800000
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-2305-91
Release Date: Oct 29 1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: May 25 1993

D36
West
1/4-1/2
0.419 mi.
2211 ft.

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING
660 S BOULEVARD EAST
PONTIAC, MI 48341

LUST S105213634
N/A

Site 1 of 3 in cluster D

Relative:
Higher

LUST:

Actual:
939 ft.

Facility ID: 00018277
Source: STATE OF MICHIGAN
Owner Name: GM-Pontiac Assembly Center
Owner Address: 2100 S Opdyke Rd 483-606-121
Owner City,St,Zip: Pontiac, MI 48341
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: SE Michigan District Office
Site Name: GM Pontiac Ctr point Campus- West Engineering
Latitude: 42.6194420000
Longitude: -83.2634040000
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-0202-05
Release Date: Jul 20 2005
Substance Released: Diesel,Gasoline
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0235-90
Release Date: Feb 2 1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0712-85

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued)

S105213634

Release Date: Aug 22 1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0776-90
Release Date: May 1 1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1245-91
Release Date: Jun 21 1991
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1468-92
Release Date: Sep 4 1992
Substance Released: Gasoline,Diesel
Release Status: Closed
Release Closed Date: Dec 28 1993

Leak Number: C-1489-85
Release Date: Jan 1 1985
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1771-92
Release Date: Oct 21 1992
Substance Released: Other,Unknown
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1831-91
Release Date: Sep 5 1991
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1972-92
Release Date: Nov 5 1992
Substance Released: Other
Release Status: Closed
Release Closed Date: Apr 29 1996

Leak Number: C-2149-91
Release Date: Oct 16 1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Mar 17 1995

Leak Number: C-2188-91
Release Date: Oct 22 1991
Substance Released: Unknown
Release Status: Closed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued)

S105213634

Release Closed Date: Apr 27 1994

D37
West
1/4-1/2
0.419 mi.
2211 ft.

GM TRUCK AND BUS PONTIAC CENTRAL
660 S. BLVD. E
PONTIAC, MI

SHWS **1003834459**
N/A

Site 2 of 3 in cluster D

Relative:
Higher

SHWS:

Facility ID: 63000048

Facility Status: Inactive - no actions taken to address contamination

Actual:
939 ft.

Source: null

SAM Score: 24 out o

SAM Score Date: 7/8/1991

Township: 03N

Range: 10E

Section: 34

Quarter: SE

Quarter/Quarter: SW

Pollutants: CN

D38
West
1/4-1/2
0.419 mi.
2211 ft.

GMC TRUCK & COACH DIV PONTIAC EAST
660 S BLVD E
PONTIAC, MI 48053

RCRA-TSDF **1000881766**
CERC-NFRAP **48058GMCTR82**
CORRACTS
RCRA-LQG
US INST CONTROL
TRIS
FINDS
MANIFEST

Site 3 of 3 in cluster D

Relative:
Higher

Actual:
939 ft.

RCRA-TSDF:

Date form received by agency: 06/08/2009

Facility name: GENERAL MOTORS CORPORATION

Facility address: 2100 S OPDYKE RD

PONTIAC, MI 48341

EPA ID: MID005356902

Contact: ROBERT FENN

Contact address: 2100 S OPDYKE RD

PONTIAC, MI 48341

Contact country: Not reported

Contact telephone: (313) 999-6013

Contact email: Not reported

EPA Region: 05

Land type: Private

Classification: TSDF

Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

TSD commencement date: Not reported

Classification: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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: PONTIAC ASSEMBLY CENTER GMVM
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/02/1970
Owner/Op end date: Not reported

Owner/operator name: GENERAL MOTORS CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/02/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

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

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Historical Generators:

Date form received by agency: 03/01/2008

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/27/2008

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 08/24/2007

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 03/01/2006

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/27/2006

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 03/01/2004

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/27/2004

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 05/13/2003

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 03/01/2002

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/25/2002

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 12/04/2001

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 04/05/2001

Facility name: GENERAL MOTORS CORPORATION

Classification: Not a generator, verified

Date form received by agency: 02/28/2000

Facility name: GENERAL MOTORS CORPORATION

Site name: GM TRUCK GROUP PONTIAC EAST ASSEM.

Classification: Large Quantity Generator

Date form received by agency: 02/26/1998

Facility name: GENERAL MOTORS CORPORATION

Site name: GMC TRUCK & BUS PONTIAC EAST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Classification: Large Quantity Generator

Date form received by agency: 04/19/1996

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 04/18/1996

Facility name: GENERAL MOTORS CORPORATION

Classification: Not a generator, verified

Date form received by agency: 03/01/1996

Facility name: GENERAL MOTORS CORPORATION

Site name: GMC TRUCK & BUS PONTIAC EAST ASSY

Classification: Large Quantity Generator

Date form received by agency: 02/28/1994

Facility name: GENERAL MOTORS CORPORATION

Site name: GMC TRUCK & BUS PONTIAC EAST ASSEMBLY

Classification: Large Quantity Generator

Date form received by agency: 02/28/1992

Facility name: GENERAL MOTORS CORPORATION

Site name: GMC TRUCK & BUS PONTIAC EAST ASSEMBLY

Classification: Large Quantity Generator

Date form received by agency: 02/27/1990

Facility name: GENERAL MOTORS CORPORATION

Site name: GMC TRUCK & BUS GROUP

Classification: Large Quantity Generator

Date form received by agency: 11/17/1980

Facility name: GENERAL MOTORS CORPORATION

Classification: Not a generator, verified

Biennial Reports:

Last Biennial Reporting Year: 2007

Annual Waste Handled:

Waste code: D001

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

Amount (Lbs): 1763097.8

Waste code: D002

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

Amount (Lbs): 390

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Waste code: D008
Waste name: LEAD
Amount (Lbs): 4880.6

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 3511

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 900

Corrective Action Summary:

Event date: 03/31/1992
Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event date: 09/11/1992
Event: Stabilization Measures Evaluation, This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.

Event date: 07/14/1997
Event: Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control (e.g., capping, fencing, deed restrictions).

Event date: 06/11/1998
Event: Stabilization Construction Completed

Event date: 09/25/1998
Event: RFI Imposition, Focused data collection required for stabilization evaluation.

Event date: 09/25/1998
Event: Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control (e.g., capping, fencing, deed restrictions).

Event date: 12/06/2000
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 12/06/2000
Event: Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 07/20/2001
Event: CA005EE

Event date: 12/19/2002
Event: RFI Approved

Event date: 10/12/2006
Event: Petition For No Further Action Receipt Date

Event date: 12/19/2006
Event: Decision On Petition For No Further Action

Event date: 04/10/2007
Event: CA772PR

Event date: 04/11/2007
Event: CA772PR

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 05/08/2009
Date achieved compliance: 06/29/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/18/2009
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: State Statute or Regulation
Date violation determined: 05/08/2009
Date achieved compliance: 08/17/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/18/2009
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: 05/08/2009
Date achieved compliance: Not reported
Violation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2009
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: 05/08/2009
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/18/2009
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: 05/08/2009
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/2009
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: Universal Waste - Small Quantity Handlers
Date violation determined: 05/08/2009
Date achieved compliance: 06/29/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/18/2009
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: State Statute or Regulation
Date violation determined: 05/08/2009
Date achieved compliance: 08/17/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Enforcement action date: 07/16/2009
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-Air Emission Standards - Tank/SI/Container
Date violation determined: 03/20/2001
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/18/2009
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-Air Emission Standards - Equipment Leaks
Date violation determined: 03/20/2001
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/17/2003
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

Regulation violated: Not reported
Area of violation: TSD IS-Air Emission Standards - Tank/SI/Container
Date violation determined: 03/20/2001
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/26/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 1375
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Air Emission Standards - Equipment Leaks
Date violation determined: 03/20/2001
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/18/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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-Air Emission Standards - Equipment Leaks
Date violation determined: 03/20/2001
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/26/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 1375
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/1996
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: Generators - General
Date violation determined: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/1996
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: Generators - Manifest
Date violation determined: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/1996
Enf. disposition status: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/1996
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: Generators - Manifest
Date violation determined: 09/30/1994
Date achieved compliance: 03/09/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/30/1994
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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/30/1994
Date achieved compliance: 03/09/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/30/1994
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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/19/1992
Date achieved compliance: 08/20/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

Map ID
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EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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: 01/29/1991
Date achieved compliance: 04/18/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/21/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 01/29/1991
Date achieved compliance: 04/18/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/21/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 01/18/1991
Date achieved compliance: 04/18/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/03/1990
Date achieved compliance: 04/18/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/09/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

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EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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: 07/06/1990
Date achieved compliance: 04/15/1991
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/28/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 9500
Final penalty amount: 9500
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 07/06/1990
Date achieved compliance: 04/15/1991
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/18/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 9000
Final penalty amount: 9000
Paid penalty amount: 9000

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 03/07/1990
Date achieved compliance: 11/06/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 03/07/1990
Date achieved compliance: 11/06/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

Map ID
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Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1989
Date achieved compliance: 05/10/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 09/26/1988
Date achieved compliance: 10/20/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/12/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 08/26/1988
Date achieved compliance: 11/17/1988
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 - General
Date violation determined: 08/11/1987
Date achieved compliance: 01/12/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/23/1987
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

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Database(s)

EDR ID Number
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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/11/1987
Date achieved compliance: 01/12/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/25/1987
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: 03/19/1987
Date achieved compliance: 08/25/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/03/1987
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: 09/19/1986
Date achieved compliance: 10/13/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/29/1986
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: 08/07/1984
Date achieved compliance: 12/04/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/1984
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

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EDR ID Number
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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Evaluation Action Summary:

Evaluation date: 05/26/2009
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Air Emission Standards - Equipment Leaks
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 05/26/2009
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Air Emission Standards - Tank/SI/Container
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 05/08/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 06/29/2009
Evaluation lead agency: State

Evaluation date: 05/08/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 06/29/2009
Evaluation lead agency: State

Evaluation date: 05/08/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 08/17/2009
Evaluation lead agency: State

Evaluation date: 05/08/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/30/2001
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Air Emission Standards - Equipment Leaks
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/20/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Air Emission Standards - Equipment Leaks
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/20/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Air Emission Standards - Tank/SI/Container
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

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Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Area of violation: Generators - Pre-transport
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 09/28/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 03/09/1995
Evaluation lead agency: State

Evaluation date: 09/28/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/09/1995
Evaluation lead agency: State

Evaluation date: 08/12/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/20/1993
Evaluation lead agency: State

Evaluation date: 05/28/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/29/1991
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: LDR - General
Date achieved compliance: 04/18/1991
Evaluation lead agency: State

Evaluation date: 01/29/1991
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: TSD - General
Date achieved compliance: 04/18/1991
Evaluation lead agency: State

Map ID
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EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Evaluation date:	01/18/1991
Evaluation:	COMPLIANCE SCHEDULE EVALUATION
Area of violation:	TSD - General
Date achieved compliance:	04/18/1991
Evaluation lead agency:	State
Evaluation date:	01/18/1991
Evaluation:	COMPLIANCE SCHEDULE EVALUATION
Area of violation:	LDR - General
Date achieved compliance:	04/18/1991
Evaluation lead agency:	State
Evaluation date:	12/03/1990
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	04/18/1991
Evaluation lead agency:	State
Evaluation date:	07/06/1990
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	TSD - General
Date achieved compliance:	04/15/1991
Evaluation lead agency:	EPA
Evaluation date:	06/29/1990
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	03/07/1990
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	11/06/1990
Evaluation lead agency:	State
Evaluation date:	03/07/1990
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	LDR - General
Date achieved compliance:	11/06/1990
Evaluation lead agency:	State
Evaluation date:	03/31/1989
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	05/10/1989
Evaluation lead agency:	State
Evaluation date:	01/24/1989
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	09/26/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General

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Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Date achieved compliance: 10/20/1988
Evaluation lead agency: State

Evaluation date: 08/26/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/17/1988
Evaluation lead agency: State

Evaluation date: 08/11/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/12/1988
Evaluation lead agency: State

Evaluation date: 03/19/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/25/1987
Evaluation lead agency: State

Evaluation date: 09/19/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/13/1986
Evaluation lead agency: State

Evaluation date: 04/01/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 12/02/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/07/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/04/1984
Evaluation lead agency: State

CERC-NFRAP:

Site ID: 0502273
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

CERCLIS-NFRAP Site Contact Name(s):

Contact Title: RESPONSIBLE PARTY INVESTIGATOR
Contact Name: JANET PFUNDHELLER
Contact Tel: (312) 353-5821

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Database(s)

EDR ID Number
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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Program Priority:

Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY

Date Started: Not reported

Date Completed: 08/01/1980

Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT

Date Started: Not reported

Date Completed: 05/01/1983

Priority Level: Low priority for further assessment

Action: ARCHIVE SITE

Date Started: Not reported

Date Completed: 11/01/1983

Priority Level: Not reported

Action: HRS PACKAGE

Date Started: Not reported

Date Completed: 11/01/1983

Priority Level: NFRAP: No further Remedial Action planned

Action: SITE INSPECTION

Date Started: Not reported

Date Completed: 11/01/1983

Priority Level: NFRAP: No further Remedial Action planned

CORRACTS:

EPA ID: MID005356902

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 3/31/1992

Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority

NAICS Code(s): 336112

Light Truck and Utility Vehicle Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID005356902

EPA Region: 05

Area Name: J-LOT

Actual Date: 4/10/2007

Action: CA772PR

NAICS Code(s): 336112

Light Truck and Utility Vehicle Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID005356902

EPA Region: 05

Area Name: ENTIRE FACILITY

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Actual Date: 4/11/2007
Action: CA772PR
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 6/11/1998
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 7/14/1997
Action: CA600EC - Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 9/11/1992
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 9/25/1998
Action: CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 9/25/1998
Action: CA600EC - Stabilization Measures Implemented, Primary measure is

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

exposure control by barrier and/or institutional control
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: J-LOT
Actual Date: 10/12/2006
Action: CA370 - Petition For No Further Action Receipt Date
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 12/6/2000
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 12/6/2000
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 12/19/2002
Action: CA200 - RFI Approved
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: J-LOT
Actual Date: 12/19/2006
Action: CA375 - Decision On Petition For No Further Action
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

US INST CONTROL:

EPA ID: MID005356902
Site ID: Not reported
Name: GENERAL MOTORS CORPORATION
Action Name: Not reported
Address: 2100 S OPDYKE RD
PONTIAC, MI 48341
EPA Region: 5
County: OAKLAND
Event Code: CA772PR
Inst. Control: Not reported
Actual Date: 04/11/07
Comple. Date: Not reported
Operable Unit: Not reported
Contaminated Media : Not reported

FINDS:

Registry ID: 110000404795

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). AFS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

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

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and 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.

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains case-specific information on the "Best Available" air pollution technologies that have been required to reduce the emission of air pollutants from stationary sources (e.g., power plants, steel mills, chemical plants, etc.). RACT, or Reasonably Available Control Technology, is required on existing sources in areas that are not meeting national ambient air quality standards. BACT, or Best Available Control Technology, is required on major new or modified sources in clean areas. LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas.

NY MANIFEST:

EPA ID: MID005356902
Country: USA
Mailing Name: GENERAL MOTORS
Mailing Contact: STEVEN F JENSEN
Mailing Address: 700 SOUTH BLVD EAST BLDG#43
Mailing Address 2: Not reported
Mailing City: PONTIAC
Mailing State: MI
Mailing Zip: 48341
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 810-456-7367

Document ID: NYB9555984
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 03/12/2003
Trans1 Recv Date: 03/12/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/20/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID005356902
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: 0629746ME
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00800

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB6630093
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: NY86424Z
Trans2 State ID: Not reported
Generator Ship Date: 941006
Trans1 Recv Date: 941006
Trans2 Recv Date: Not reported
TSD Site Recv Date: 941024
Part A Recv Date: 941017
Part B Recv Date: 941102
Generator EPA ID: MID005356902
Trans1 EPA ID: ILD099202681
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: F001 - UNKNOWN
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 94
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB7405821

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Manifest Status: Completed copy
Trans1 State ID: 10210PNY
Trans2 State ID: Not reported
Generator Ship Date: 951205
Trans1 Recv Date: 951205
Trans2 Recv Date: Not reported
TSD Site Recv Date: 951207
Part A Recv Date: 960117
Part B Recv Date: 951226
Generator EPA ID: MID005356902
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity: 00330
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 006
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 95
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB8122338
Manifest Status: Completed copy
Trans1 State ID: 11339PNY
Trans2 State ID: Not reported
Generator Ship Date: 950828
Trans1 Recv Date: 950828
Trans2 Recv Date: Not reported
TSD Site Recv Date: 950906
Part A Recv Date: 960716
Part B Recv Date: 950919
Generator EPA ID: MID005356902
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity: 00918
Units: K - Kilograms (2.2 pounds)
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Waste Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Quantity: 00918
Units: K - Kilograms (2.2 pounds)
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 95
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB7406739
Manifest Status: Completed copy
Trans1 State ID: NY10210P
Trans2 State ID: Not reported
Generator Ship Date: 960112
Trans1 Recv Date: 960112
Trans2 Recv Date: Not reported
TSD Site Recv Date: 960115
Part A Recv Date: 960215
Part B Recv Date: 960131
Generator EPA ID: MID005356902
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity: 00605
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 011
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 96
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Document ID: NYB8373069
Manifest Status: Completed copy
Trans1 State ID: 10211PNY
Trans2 State ID: Not reported
Generator Ship Date: 960911
Trans1 Recv Date: 960911
Trans2 Recv Date: Not reported
TSD Site Recv Date: 960913
Part A Recv Date: 961015
Part B Recv Date: 961003
Generator EPA ID: MID005356902
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00125
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00125
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 96
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AUBURN HILLS	S106174379	LIGHT INDUSTRIAL PROPERTY	1929TH & 1939 OPDYKE RD	48326	BEA
AUBURN HILLS	S103594529	ADAMS AND AUBURN RD DEVELOPMENT	3995 AUBURN RD	48326	SHWS
AUBURN HILLS	1012127281	FIRE STATION #2/DPW	2060 N OPDYKE RD	48326	US BROWNFIELDS
BLOOMFIELD HILLS	S103594527	SHELL DRY WELL 1 TELEGRAPH	1415TH TELEGRAPH & GOLF	48302	SHWS
BLOOMFIELD TWP	S104872786	WOODWARD AVE & SQUARE LAKE ROAD	2510 STATE HIGHWAY 1	48304	LUST
PONTIAC	S105768598	PONTIAC HOLDINGS, LLC	25 ACRE VACANT PROPERTY		BEA
PONTIAC	1003871920		871 SOUTH BLVD		CERC-NFRAP
PONTIAC	S108414584	UNIT 52 CENTERPOINT BUSINESS CAMPU	CENTERPOINT BUSINESS CAMPUS		BEA
PONTIAC	1011489485	CITY OF PONTIAC	CORNER FRANKLIN & WOODWARD	48342	RCRA-CESQG
PONTIAC	1011920723	CITY OF PONTIAC	CORNER FRANKLIN & WOODWARD	48342	FINDS
PONTIAC	S107466649	LANDSTONE PONTIAC PARTNERS LLC	SE CORNER OF SANDERSON AVE		BEA
PONTIAC	S100070019	SALTARELLI LANDFILL	SE CORNER AUBURN & OPDYKE RD		HIST LF
PONTIAC	S109171477	PONTIAC NORTH CAMPUS / FORMER GM F	711 N GLENWOOD		BEA
PONTIAC	1003871234		3951 JOSLYN RD		CERC-NFRAP, SHWS
PONTIAC	1011577052	GENERAL MOTORS TRUCK & BUS DIV PON	31 JUDSON ST	48342	ICIS
PONTIAC	S105144527	KENNETT RD LF	KENNETT RD		SHWS
PONTIAC	S109258687	PONTIAC WASTE WATER TREATMENT	274 MARTIN LUTHER KING BLVD		SPILLS
PONTIAC	S108895970	PONTIAC CENTER, LLC	NEC OF MARTIN LUTHER KING JR B	48341	BEA
PONTIAC	1012122462	PONTIAC	522 S OPDYKE RD	48341	ICIS
PONTIAC	1007202818		820 OPDYKE RD		RCRA-LQG
PONTIAC	1012181078	CITY OF PONTIAC BRIDGE	PADDOCK ST OVER CLINTON RIVER	48341	RCRA-CESQG
PONTIAC	1012108077	CITY OF PONTIAC BRIDGE B01-65-17-2	PADDOCK ST	48341	FINDS
PONTIAC	1012180810	CITY OF PONTIAC	PARCEL # 14-34-154-00930415	48341	RCRA-NonGen
PONTIAC	1012108143	CITY OF PONTIAC	PARCEL 154	48341	FINDS
PONTIAC	1009520955	PONTIAC OSTEOPATHIC HOSPITAL	50 N PERRY ST	48342	FTTS, HIST FTTS
PONTIAC	S109533251	TIM YOUNGQUIST/CITY OF PONTIAC	PONTIAC MI		SPILLS
PONTIAC	S105966042	PONTIAC STORAGE	0 STREET	48341	DEL SHWS
PONTIAC	S107597095	PONTIAC WASTEWATER TREATMENT PLANT	155 N UPDYKE		SPILLS
PONTIAC	S104912438	PONTIAC CITY OF	VACANT 9		BEA
PONTIAC	S105144543	ASPHALT SPECIALIST INC	1908 WIDE TRACK DR W	48342	SHWS, DEL SHWS
PONTIAC	1011479941	ARTS AND TECHNOLOGY ACADEMY OF PON	49880 WOODWARD AVE	48342	FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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: 11/01/2009	Source: EPA
Date Data Arrived at EDR: 11/13/2009	Telephone: N/A
Date Made Active in Reports: 01/11/2010	Last EDR Contact: 01/14/2010
Number of Days to Update: 59	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 11/01/2009	Source: EPA
Date Data Arrived at EDR: 11/13/2009	Telephone: N/A
Date Made Active in Reports: 01/11/2010	Last EDR Contact: 01/14/2010
Number of Days to Update: 59	Next Scheduled EDR Contact: 04/26/2010
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/17/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

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: 11/01/2009	Source: EPA
Date Data Arrived at EDR: 11/13/2009	Telephone: N/A
Date Made Active in Reports: 01/11/2010	Last EDR Contact: 01/14/2010
Number of Days to Update: 59	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

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

Date of Government Version: 06/30/2009	Source: EPA
Date Data Arrived at EDR: 08/11/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 12/28/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 04/12/2010
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of NPL and Base Realignment & Closure sites found in the CERCLIS database where FERRO is involved in cleanup projects.

Date of Government Version: 10/03/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/10/2009	Telephone: 703-603-8704
Date Made Active in Reports: 09/29/2009	Last EDR Contact: 01/15/2010
Number of Days to Update: 81	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

Date of Government Version: 06/23/2009	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 11/24/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 03/15/2010
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/15/2009	Source: EPA
Date Data Arrived at EDR: 09/22/2009	Telephone: 800-424-9346
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/16/2009
Number of Days to Update: 48	Next Scheduled EDR Contact: 03/01/2010
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal RCRA non-CORRACTS TSD facilities list

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: 12/11/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2009	Telephone: 312-886-6186
Date Made Active in Reports: 01/11/2010	Last EDR Contact: 01/15/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Quarterly

Federal RCRA generators list

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: 12/11/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2009	Telephone: 312-886-6186
Date Made Active in Reports: 01/11/2010	Last EDR Contact: 01/15/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 04/19/2010
	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: 12/11/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2009	Telephone: 312-886-6186
Date Made Active in Reports: 01/11/2010	Last EDR Contact: 01/15/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 04/19/2010
	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: 12/11/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2009	Telephone: 312-886-6186
Date Made Active in Reports: 01/11/2010	Last EDR Contact: 01/15/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/01/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2009	Telephone: 703-603-0695
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/29/2010
	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: 10/01/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2009	Telephone: 703-603-0695
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Varies

Federal ERNS list

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: 08/31/2009	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 09/17/2009	Telephone: 202-267-2180
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 01/15/2010
Number of Days to Update: 53	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 10/28/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/03/2009	Telephone: 517-373-9541
Date Made Active in Reports: 11/17/2009	Last EDR Contact: 11/03/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Semi-Annually

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

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: 10/06/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/08/2009	Telephone: 517-335-4035
Date Made Active in Reports: 11/17/2009	Last EDR Contact: 01/18/2010
Number of Days to Update: 40	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal leaking storage tank lists

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: 11/23/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/24/2009	Telephone: 517-373-9837
Date Made Active in Reports: 12/31/2009	Last EDR Contact: 11/24/2009
Number of Days to Update: 37	Next Scheduled EDR Contact: 03/08/2010
	Data Release Frequency: Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 12/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 12/01/2009	Telephone: 303-312-6271
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 15	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/24/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2009	Telephone: 913-551-7003
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 11/04/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/12/2009	Source: EPA Region 6
Date Data Arrived at EDR: 11/12/2009	Telephone: 214-665-6597
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/15/2010
	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: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/10/2009	Source: EPA Region 10
Date Data Arrived at EDR: 11/12/2009	Telephone: 206-553-2857
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/24/2009
Date Data Arrived at EDR: 11/25/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/07/2009
Date Data Arrived at EDR: 12/09/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 7

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

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: 11/23/2009
Date Data Arrived at EDR: 11/24/2009
Date Made Active in Reports: 12/28/2009
Number of Days to Update: 34

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 11/24/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 11/30/2009
Date Data Arrived at EDR: 12/08/2009
Date Made Active in Reports: 12/30/2009
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 11/23/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: No Update Planned

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2009
Date Data Arrived at EDR: 11/05/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 41

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/22/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/10/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/04/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 12/01/2009
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 15

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/12/2009
Date Data Arrived at EDR: 11/20/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 26

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/12/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/07/2009
Date Data Arrived at EDR: 12/09/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 7

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/01/2009
Date Data Arrived at EDR: 10/29/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 48

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/18/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Engineering and Institutional Controls

A listing of sites with institutional and/or engineering controls in place.

Date of Government Version: 01/04/2010
Date Data Arrived at EDR: 01/05/2010
Date Made Active in Reports: 01/27/2010
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 517-373-4828
Last EDR Contact: 12/07/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

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: 12/02/2009
Date Data Arrived at EDR: 12/02/2009
Date Made Active in Reports: 12/31/2009
Number of Days to Update: 29

Source: Department of Environmental Quality
Telephone: 517-373-4805
Last EDR Contact: 11/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detroit Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 05/01/2007
Number of Days to Update: 21

Source: Economic Development Corporation
Telephone: 888-522-0103
Last EDR Contact: 12/07/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/04/2009	Telephone: 202-566-2777
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 01/07/2010
Number of Days to Update: 42	Next Scheduled EDR Contact: 04/12/2010
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-972-3336
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/07/2010
Number of Days to Update: 137	Next Scheduled EDR Contact: 03/22/2010
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/28/2003	Telephone: 517-335-4034
Date Made Active in Reports: 03/06/2003	Last EDR Contact: 02/28/2003
Number of Days to Update: 6	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 11/09/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/22/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

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: 03/01/2009	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/22/2009	Telephone: 202-307-1000
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 12/14/2009
Number of Days to Update: 91	Next Scheduled EDR Contact: 03/22/2010
	Data Release Frequency: Quarterly

DEL SHWS: Delisted List of Contaminated Sites

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support its listing or the site no longer meets criteria specified in rules.

Date of Government Version: 11/04/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/04/2009	Telephone: 517-373-9541
Date Made Active in Reports: 11/17/2009	Last EDR Contact: 11/02/2009
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 10/20/2008	Source: Department of Community Health
Date Data Arrived at EDR: 11/18/2008	Telephone: 517-373-3740
Date Made Active in Reports: 11/21/2008	Last EDR Contact: 11/02/2009
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

Local Land Records

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: 11/03/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2009	Telephone: 202-564-6023
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 11/02/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 11/20/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/08/2010
	Data Release Frequency: Varies

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: 08/12/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/29/2009	Telephone: 517-373-9837
Date Made Active in Reports: 11/17/2009	Last EDR Contact: 01/27/2010
Number of Days to Update: 19	Next Scheduled EDR Contact: 05/10/2010
	Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/05/2009	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/05/2009	Telephone: 202-366-4555
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 01/06/2010
Number of Days to Update: 35	Next Scheduled EDR Contact: 04/12/2010
	Data Release Frequency: Annually

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: 09/21/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/22/2009	Telephone: 517-373-8427
Date Made Active in Reports: 10/05/2009	Last EDR Contact: 01/11/2010
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

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

Date of Government Version: 12/11/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2009	Telephone: 312-886-6186
Date Made Active in Reports: 01/11/2010	Last EDR Contact: 01/15/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/13/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 36

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/10/2009
Next Scheduled EDR Contact: 02/22/2010
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: 703-692-8801
Last EDR Contact: 01/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/30/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/18/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 08/03/2009
Date Data Arrived at EDR: 10/27/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 13

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/01/2009
Date Data Arrived at EDR: 12/15/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/15/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/08/2009
Number of Days to Update: 1

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/23/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/17/2009
Date Data Arrived at EDR: 12/08/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 42

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/08/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 04/09/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 69

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/13/2010
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 01/20/2010
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 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: 12/14/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 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
Telephone: 202-566-1667
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 05/19/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 125

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
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: 11/10/2009
Date Data Arrived at EDR: 11/18/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 12/23/2009
Next Scheduled EDR Contact: 04/12/2010
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: 09/01/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 41

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/22/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 09/25/2009
Date Data Arrived at EDR: 10/23/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 54

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/15/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/16/2009	Telephone: 202-343-9775
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 01/13/2010
Number of Days to Update: 46	Next Scheduled EDR Contact: 04/26/2010
	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: 10/19/2009	Source: EPA
Date Data Arrived at EDR: 10/22/2009	Telephone: (312) 353-2000
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007	Source: EPA/NTIS
Date Data Arrived at EDR: 02/19/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/22/2009	Last EDR Contact: 11/20/2009
Number of Days to Update: 92	Next Scheduled EDR Contact: 03/05/2010
	Data Release Frequency: Biennially

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: 09/10/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/10/2009	Telephone: 517-241-1515
Date Made Active in Reports: 10/05/2009	Last EDR Contact: 11/02/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/18/2009
Date Data Arrived at EDR: 03/17/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 15

Source: Department of Environmental Quality
Telephone: 517-335-4586
Last EDR Contact: 01/25/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Varies

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 01/12/2010
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 01/27/2010
Number of Days to Update: 14

Source: Department of Environmental Quality
Telephone: 517-241-1300
Last EDR Contact: 01/13/2010
Next Scheduled EDR Contact: 04/26/2010
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 39

Source: Department of Environmental Quality
Telephone: 517-373-7074
Last EDR Contact: 12/29/2009
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

A Baseline Environmental Assessment (BEA) allows people to purchase or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so that existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

Date of Government Version: 12/02/2009
Date Data Arrived at EDR: 12/04/2009
Date Made Active in Reports: 12/31/2009
Number of Days to Update: 27

Source: DEPT. OF ENVIRONMENTAL QUALITY
Telephone: 517-373-9541
Last EDR Contact: 11/23/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Semi-Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Semi-Annually

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: 11/16/2009
Date Data Arrived at EDR: 11/16/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/25/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 01/25/2010	Source: Department of Environmental Quality
Date Data Arrived at EDR: 01/25/2010	Telephone: 586-753-3754
Date Made Active in Reports: 01/27/2010	Last EDR Contact: 01/11/2010
Number of Days to Update: 2	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 01/27/2010
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Varies

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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/19/2010
Number of Days to Update: 339	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 11/13/2009
Number of Days to Update: 100	Next Scheduled EDR Contact: 02/15/2010
	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: 09/21/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/25/2009	Telephone: N/A
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 12/15/2009
Number of Days to Update: 45	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/24/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 05/05/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 17

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/20/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/27/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/09/2009
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/10/2009
Next Scheduled EDR Contact: 02/22/2010
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 11/23/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/12/2009
Date Made Active in Reports: 06/29/2009
Number of Days to Update: 17

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/30/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 07/17/2009
Date Made Active in Reports: 08/10/2009
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/21/2009
Next Scheduled EDR Contact: 04/05/2010
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GMVM PONTIAC ASSEMBLY
2100 SOUTH OPDYKE ROAD
PONTIAC, MI 48341

TARGET PROPERTY COORDINATES

Latitude (North):	42.61340 - 42° 36' 48.2"
Longitude (West):	83.2526 - 83° 15' 9.4"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	315238.2
UTM Y (Meters):	4720130.0
Elevation:	939 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	42083-E3 PONTIAC SOUTH, MI
Most Recent Revision:	1997
North Map:	42083-F3 PONTIAC NORTH, MI
Most Recent Revision:	1997
Northeast Map:	42083-F2 ROCHESTER, MI
Most Recent Revision:	1997
East Map:	42083-E2 BIRMINGHAM, MI
Most Recent Revision:	1981

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

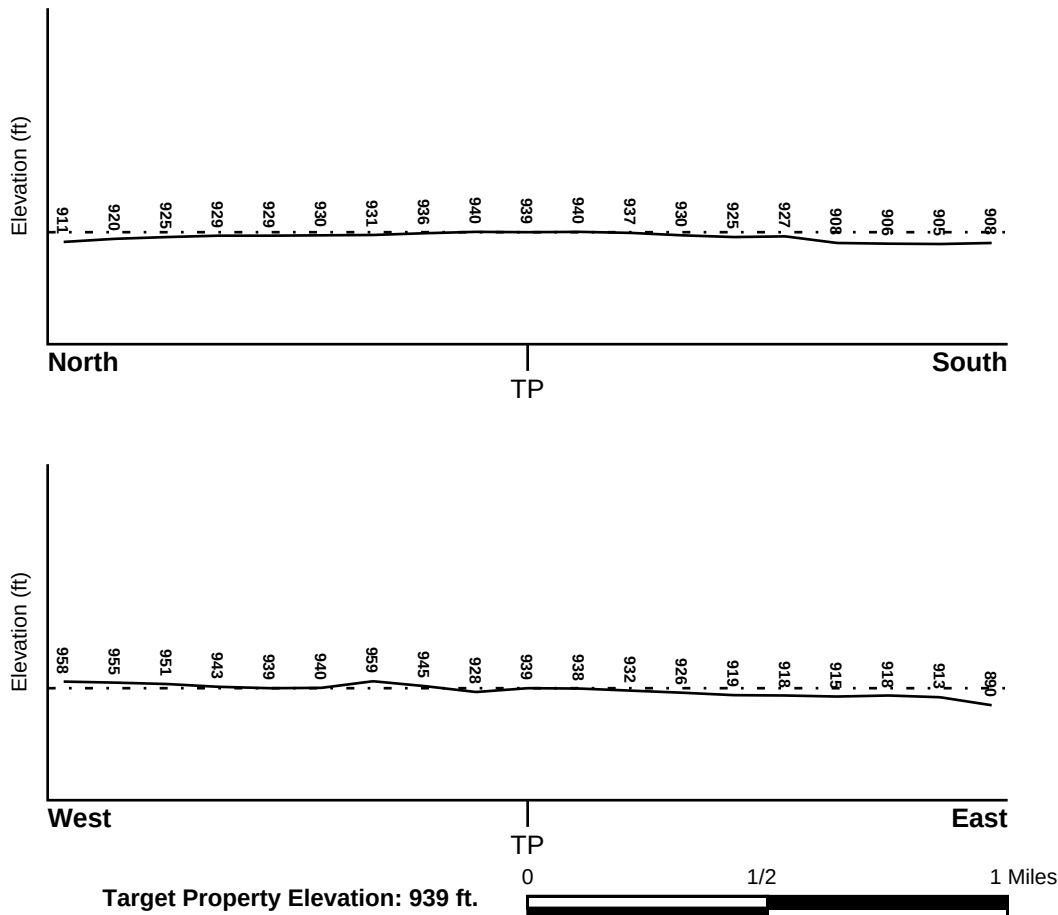
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County
OAKLAND, MI

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 26125C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
PONTIAC SOUTH

NWI Electronic
Data Coverage
YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
21	1/2 - 1 Mile NNE	N

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

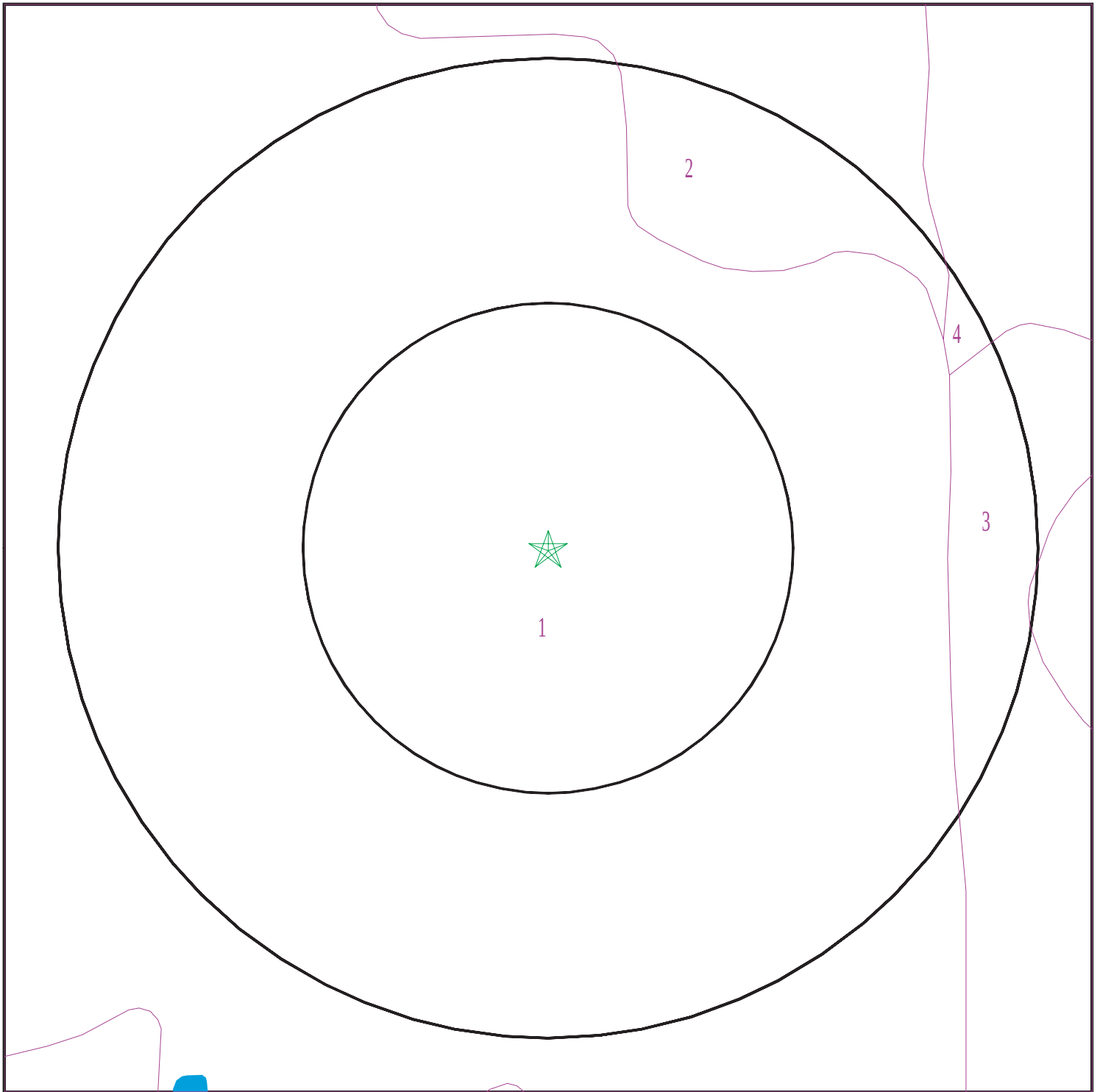
Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 2688090.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: GMVM Pontiac Assembly
ADDRESS: 2100 South Opdyke Road
Pontiac MI 48341
LAT/LONG: 42.6134 / 83.2526

CLIENT: LFR Inc
CONTACT: Sean Drain
INQUIRY #: 2688090.2s
DATE: January 29, 2010 8:50 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Blount

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 8.4 Min: 7.4
2	7 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 8.4 Min: 7.4
3	29 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: Urban land

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: Urban land

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

No Layer Information available.

Soil Map ID: 5

Soil Component Name: Urban land

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 130 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
25	USGS2308710	1/2 - 1 Mile SSW
28	USGS2308705	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

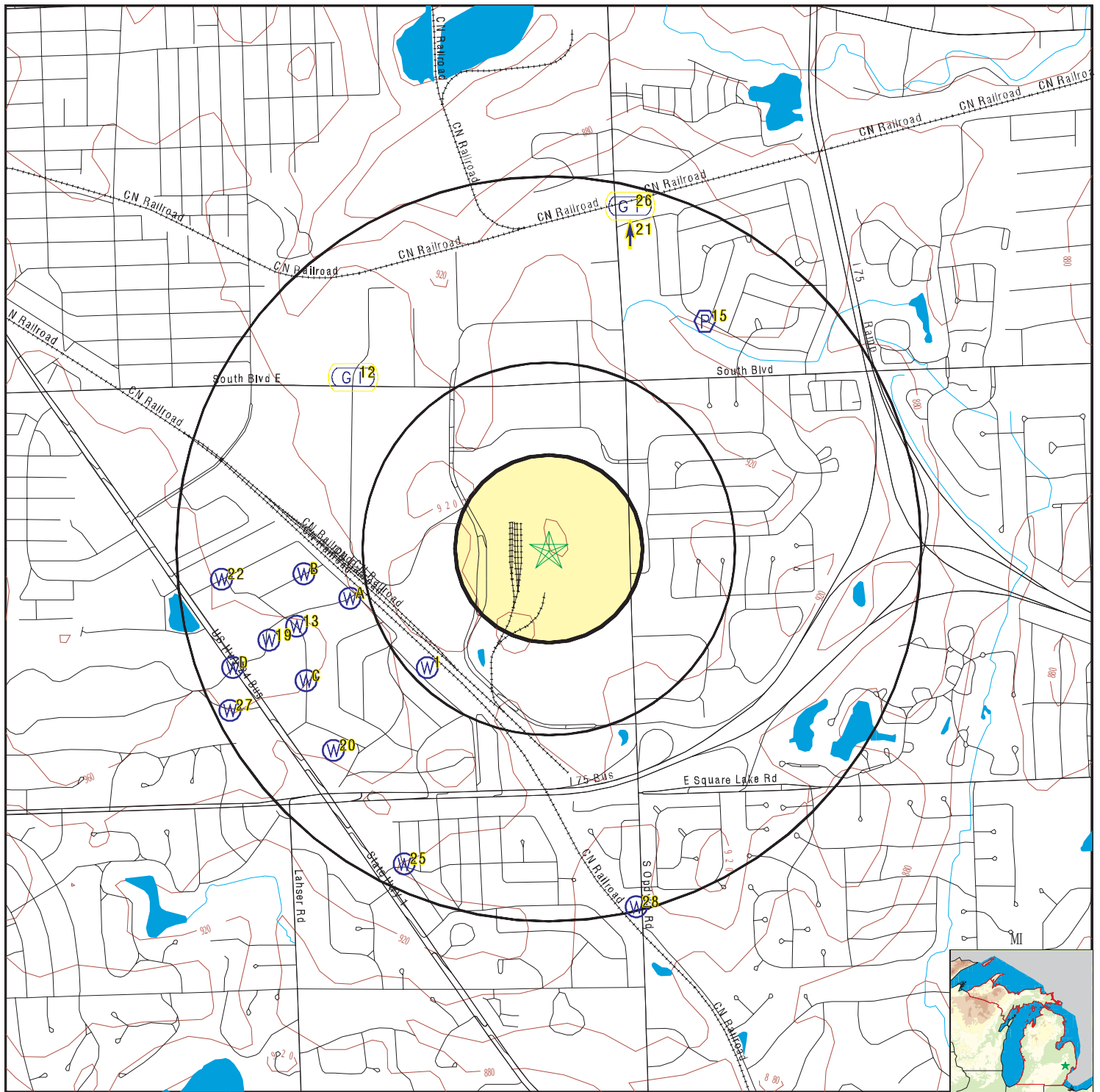
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
15	MI0000310	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	MI20244859	1/4 - 1/2 Mile SW
A2	MI20244856	1/2 - 1 Mile WSW
A3	MI20244845	1/2 - 1 Mile WSW
A4	MI20244857	1/2 - 1 Mile WSW
B5	MI20244850	1/2 - 1 Mile West
B6	MI20244851	1/2 - 1 Mile West
B7	MI20244849	1/2 - 1 Mile West
B8	MI20244858	1/2 - 1 Mile West
B9	MI20244848	1/2 - 1 Mile West
B10	MI20244847	1/2 - 1 Mile West
B11	MI20244846	1/2 - 1 Mile West
13	MI20244852	1/2 - 1 Mile WSW
C14	MI20244853	1/2 - 1 Mile WSW
C16	MI20244854	1/2 - 1 Mile WSW
C17	MI20241192	1/2 - 1 Mile WSW
C18	MI20244855	1/2 - 1 Mile WSW
19	MI20261704	1/2 - 1 Mile WSW
20	MI20244860	1/2 - 1 Mile SW
22	MI20244861	1/2 - 1 Mile West
D23	MI20244884	1/2 - 1 Mile WSW
D24	MI20244883	1/2 - 1 Mile WSW
27	MI20260650	1/2 - 1 Mile WSW

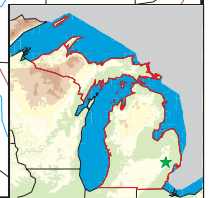
PHYSICAL SETTING SOURCE MAP - 2688090.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

0 1/4 1/2 1 Miles



SITE NAME: GMVM Pontiac Assembly
 ADDRESS: 2100 South Opdyke Road
 Pontiac MI 48341
 LAT/LONG: 42.6134 / 83.2526

CLIENT: LFR Inc
 CONTACT: Sean Drain
 INQUIRY #: 2688090.2s
 DATE: January 29, 2010 8:50 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

1

SW

1/4 - 1/2 Mile
Lower

MI WELLS

MI20244859

Wellid:	63000003883	Import id:	63028003301
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	SOUTH BLOOMFIELD HIGHLANDS		
Well addr:	SOUTH BLOOMFIELD HIGHLANDS #1		
Well depth:	127		
Well type:	Type I public		
Wssn:	6080		
Well num:	1	Driller id:	0
Const date:	Not Reported	Case type:	Unknown
Case dia:	8		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	125
Latitude:	42.608778		
Longitude:	-83.258992		
Methd coll:	GPS Code Meas. Std. Positioning Svc. SA Off		
Elevation:	934		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	932	Elev dif:	2
Elev miv:	934	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	33
Pct aq d:	33	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	67
Pct cm d:	67	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	25	Pct maq 4:	0
Pct cm 4:	75	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	60	Pct maq 6:	0
Pct cm 6:	40	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

A2
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20244856

Wellid:	63000003880	Import id:	63028003013
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	RAISSA SCHLEGA		
Well addr:	285 E BERKSHIRE		
Well depth:	155		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1967-04-26 00:00:00.000	Case type:	Unknown
Case dia:	4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	150.8		
Screen frm:	150		
Screen to:	155		
Swl:	113		
Test depth:	135		
Test hours:	12		
Test rate:	22	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.61150005		
Longitude:	-83.26302563		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	941	Elev dif:	7
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	3
Pct aq d:	3	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	71	Pct pcm d:	71
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	15	A pct aq:	27
A pct maq:	0	A pct pcm:	13
A pct cm:	0	A pct na:	60
A thickns2:	42	A pct aq2:	10
A pct maq2:	0	A pct pcm2:	69
A pct cm2:	0	A pct na2:	21
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Wet/Moist	A sc lmaq1:	AQ
A sc lpct1:	60	A sc lith2:	Hardpan
A sc lmod2:	W/Sand	A sc lmaq2:	PCM
A sc lpct2:	40	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	100
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	40	Pct na 3:	60
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	100
Pct na 6:	0	Pct aq 7:	4
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	60	Pct na 7:	36
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

A3
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20244845

Wellid:	63000003869	Import id:	63028003001
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	VAL SCHLEGA		
Well addr:	285 EAST BERKSHIRE		
Well depth:	200		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	248
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	196		
Screen to:	200		
Swl:	60		
Test depth:	100		
Test hours:	8		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61150005		
Longitude:	-83.26302563		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	941	Elev dif:	7
Elev miv:	948	Aq code:	Not Reported
Aq flag:	Lithology Problem (Drift under Rock)	Pct aq:	0
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-9
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	55	A pct aq:	64
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	36
A thickns2:	140	A pct aq2:	25
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	61	A pct na2:	14
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

A4
WSW
1/2 - 1 Mile
Higher

MI WELLS

MI20244857

Wellid:	63000003881	Import id:	63028003014
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	RANDY LALONE		
Well addr:	276 E BERKSHIRE		
Well depth:	260		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1607
Const date:	1991-12-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	260		
Screen frm:	253		
Screen to:	260		
Swl:	50		
Test depth:	180		
Test hours:	1		
Test rate:	50	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61142635		
Longitude:	-83.26315573		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	4
Pct aq d:	4	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	96
Pct cm d:	96	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	210	A pct aq2:	5
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	95	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	100
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	100	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	100
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	210		
Horiz Conduct:	4.762		
Vert Conduct:	.0001		
T2:	1000.02		
D50plek:	365.38328		

B5
West
1/2 - 1 Mile
Higher

MI WELLS MI20244850

Wellid:	63000003874	Import id:	63028003006
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	GORDON F BIRCHARD JR		
Well addr:	268 HIGHLAND AV		
Well depth:	117		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1976-05-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	113		
Screen frm:	113		
Screen to:	117		
Swl:	63		
Test depth:	75		
Test hours:	1		
Test rate:	40	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61259465		
Longitude:	-83.26506983		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	951	Elev dif:	3
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	15
Pct aq d:	15	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	85
Pct cm d:	85	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	17	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	54	A pct aq2:	31
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	69	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	54		
Horiz Conduct:	15.74081		
Vert Conduct:	.00015		
T2:	850.0037		
D50plek:	80.55906		

B6
West
1/2 - 1 Mile
Higher

MI WELLS MI20244851

Wellid:	63000003875	Import id:	63028003007
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	ROBERT SPOONER		
Well addr:	269 HIGHLAND AV		
Well depth:	130		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1607
Const date:	1996-08-21 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	120		
Screen frm:	120		
Screen to:	130		
Swl:	50		
Test depth:	130		
Test hours:	1		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61259465		
Longitude:	-83.26506983		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	951	Elev dif:	3
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	15
Pct aq d:	15	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	85

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	85	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	20	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	80	A pct aq2:	25
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	75	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	60	Pct maq 6:	0
Pct cm 6:	40	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	80		
Horiz Conduct:	50.00008		
Vert Conduct:	.00013		
T2:	4000.006		
D50plek:	518.45259		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

B7

West

1/2 - 1 Mile

Higher

MI WELLS

MI20244849

Wellid:	63000003873	Import id:	63028003005
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	LARRY G GARNER		
Well addr:	246 HIGHLAND DR		
Well depth:	120		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1976
Const date:	1998-06-21 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	116		
Screen frm:	116		
Screen to:	120		
Swl:	63		
Test depth:	84		
Test hours:	2		
Test rate:	65	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61245715		
Longitude:	-83.26542023		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	8
Pct aq d:	8	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	12
Pct cm d:	12	Pct cm r:	0
Pct pcm:	80	Pct pcm d:	80
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	57	A pct aq2:	18
A pct maq2:	0	A pct pcm2:	82
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Medium	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	70
Pct pcm 1:	30	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	57		
Horiz Conduct:	8.77275		
Vert Conduct:	.00121		
T2:	500.047		
D50plek:	51.49382		

B8
West
1/2 - 1 Mile
Higher

MI WELLS MI20244858

Wellid:	63000003882	Import id:	63028003015
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	KARL RICHARDSON		
Well addr:	245 HIGHLAND AV		
Well depth:	125		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1994-08-22 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	121		
Screen frm:	121		
Screen to:	125		
Swl:	60		
Test depth:	75		
Test hours:	1		
Test rate:	45	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61244465		
Longitude:	-83.26545203		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	4
Pct aq d:	4	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	58	Pct pcm d:	58
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	53	A pct aq:	9
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	91
A thickns2:	65	A pct aq2:	8
A pct maq2:	0	A pct pcm2:	18
A pct cm2:	0	A pct na2:	74
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	60
Pct na 4:	40	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	100
Pct aq 6:	20	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	80	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

B9
West
1/2 - 1 Mile
Higher

MI WELLS MI20244848

Wellid:	63000003872	Import id:	63028003004
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	MICHAEL MILLER		
Well addr:	229 HIGHLAND AV		
Well depth:	99		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	127
Const date:	1990-09-13 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	91		
Screen frm:	91		
Screen to:	99		
Swl:	60		
Test depth:	75		
Test hours:	3		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61234455		
Longitude:	-83.26570683		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	9
Pct aq d:	9	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	66	Pct pcm d:	66
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	9	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	39	A pct aq2:	23
A pct maq2:	0	A pct pcm2:	77
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	100
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	75
Pct na 2:	25	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	39		
Horiz Conduct:	11.53923		
Vert Conduct:	.0013		
T2:	450.03		
D50plek:	31.89453		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

B10

West

1/2 - 1 Mile

Higher

MI WELLS

MI20244847

Wellid:	63000003871	Import id:	63028003003
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	NEW CREATIONS		
Well addr:	228 HIGHLAND AV		
Well depth:	113		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1994-11-23 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	0		
Screen frm:	109		
Screen to:	113		
Swl:	61		
Test depth:	70		
Test hours:	1		
Test rate:	40	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61234455		
Longitude:	-83.26570683		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	20
Pct aq d:	20	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	12
Pct cm d:	12	Pct cm r:	0
Pct pcm:	68	Pct pcm d:	68
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	23	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	52	A pct aq2:	44
A pct maq2:	0	A pct pcm2:	56
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	65
Pct pcm 1:	35	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	50
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	50	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	52		
Horiz Conduct:	44.23635		
Vert Conduct:	.01793		
T2:	2300.29		
D50plek:	199.26819		

B11
West
1/2 - 1 Mile
Higher

MI WELLS MI20244846

Wellid:	63000003870	Import id:	63028003002
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	IVAN C KOBOSH		
Well addr:	210 HIGHLAND AV		
Well depth:	107		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1757
Const date:	1986-07-29 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	103		
Screen frm:	103		
Screen to:	107		
Swl:	50		
Test depth:	60		
Test hours:	2		
Test rate:	25	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61223205		
Longitude:	-83.26599353		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	44
Pct aq d:	44	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	28
Pct cm d:	28	Pct cm r:	0
Pct pcm:	28	Pct pcm d:	28
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	17	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	57	A pct aq2:	30
A pct maq2:	0	A pct pcm2:	35
A pct cm2:	35	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	50	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	50
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	50	Pct pcm 4:	50
Pct na 4:	0	Pct aq 5:	50
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	50	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	57		
Horiz Conduct:	89.47723		
Vert Conduct:	.00028		
T2:	5100.202		
D50plek:	465.38664		

13
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20244852

Wellid:	63000003876	Import id:	63028003008
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	LARRY C RODGES		
Well addr:	1526 WINTHROP		
Well depth:	246		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1995-07-17 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	242		
Screen frm:	242		
Screen to:	246		
Swl:	87		
Test depth:	100		
Test hours:	1		
Test rate:	100	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61039335		
Longitude:	-83.26586843		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	9
Pct aq d:	9	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	91	Pct pcm d:	91
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	159	A pct aq2:	13
A pct maq2:	0	A pct pcm2:	87
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	100
Pct na 6:	0	Pct aq 7:	44
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	56	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	100
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	159		
Horiz Conduct:	6.60464		
Vert Conduct:	.00115		
T2:	1050.138		
D50plek:	289.75676		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

C14
WSW
1/2 - 1 Mile
Higher

MI WELLS

MI20244853

Wellid:	63000003877	Import id:	63028003009
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	FRED SILVERMAN		
Well addr:	1616 WINTHROP		
Well depth:	245		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1991-09-18 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	242		
Screen frm:	239.83		
Screen to:	245		
Swl:	90		
Test depth:	97		
Test hours:	1.8		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60847575		
Longitude:	-83.26538663		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	16
Pct aq d:	16	Pct aq r:	0
Pct maq:	8	Pct maq d:	8
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	42	Pct pcm d:	42
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	15	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	155	A pct aq2:	10
A pct maq2:	13	A pct pcm2:	23
A pct cm2:	0	A pct na2:	55
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	15
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	85	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	75	Pct na 5:	25
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	100	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	100
Pct aq 8:	0	Pct maq 8:	40
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	60	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

15
NE
1/2 - 1 Mile
Lower

FRDS PWS MI0000310

PWS ID: MI0000310
 Date Initiated: 7308 Date Deactivated: Not Reported
 PWS Name: AUBURN DEVELOP CO SUBDIVISION
 2835 WOODWARD AVE APT B
 BLOOMFIELD HILLS, MI 48013

Addressee / Facility: System Owner/Responsible Party
 AUBURN DEVELOPMENT CO SUBD
 2835 WOODWARD AVE APT B
 BLOOMFIELD HILLS, MI 48013

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facility Latitude: 42 37 20
 City Served: PONTIC TWP
 Treatment Class: Untreated

Facility Longitude: 083 14 40
 Population: 00000200

Violations information not reported.

C16
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20244854

Wellid:	63000003878	Import id:	63028003010
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	RICHARD A SANDERS		
Well addr:	1628 WINTHROP		
Well depth:	169		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	613
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	87		
Test depth:	100		
Test hours:	0		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60822205		
Longitude:	-83.26537103		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	10
Pct aq d:	10	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	76
Pct cm d:	76	Pct cm r:	0
Pct pcm:	14	Pct pcm d:	14
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	35	Pct maq 2:	0
Pct cm 2:	65	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	40
Pct pcm 7:	60	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

C17
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20241192

Wellid:	63000000141	Import id:	63028003011
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	OTIS B FERGUSON		
Well addr:	1645 WINTHROP		
Well depth:	170		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	27
Const date:	1968-03-01 00:00:00.000	Case type:	Unknown
Case dia:	6		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	170		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60819945		
Longitude:	-83.26536963		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	21
Pct aq d:	21	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	21
Pct cm d:	21	Pct cm r:	0
Pct pcm:	18	Pct pcm d:	18
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	75	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	25	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	100
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	65
Pct pcm 5:	0	Pct na 5:	35
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	48	Pct pcm 6:	52
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	32
Pct pcm 7:	68	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

C18
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20244855

Wellid:	63000003879	Import id:	63028003012
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	OTIS B FERGUSON		
Well addr:	1645 WINTHROP		
Well depth:	193		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	27
Const date:	1968-04-01 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	193		
Screen frm:	169		
Screen to:	174		
Swl:	103		
Test depth:	115		
Test hours:	8		
Test rate:	15	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.60819945		
Longitude:	-83.26536963		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	52
Pct aq d:	52	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	22

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	22	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	27	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	71	A pct aq2:	41
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	59	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Wet/Moist	A sc lmaq1:	AQ
A sc lpct1:	80	A sc lith2:	Sand & Gravel
A sc lmod2:	Wet/Moist	A sc lmaq2:	AQ
A sc lpct2:	20	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	50	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	50	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	100
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	20	Pct maq 6:	0
Pct cm 6:	80	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	12
Pct maq 7:	0	Pct cm 7:	88
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	71		
Horiz Conduct:	21.83143		
Vert Conduct:	.00047		
T2:	1550.0312		
D50plek:	187.10718		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

19

WSW

1/2 - 1 Mile
Higher

MI WELLS

MI20261704

Wellid:	63000022498	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	Threets		
Well addr:	68 East Berkshire		
Well depth:	140		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1928
Const date:	2002-05-04 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	140		
Screen frm:	136		
Screen to:	140		
Swl:	60		
Test depth:	80		
Test hours:	1		
Test rate:	40	Test methd:	Air
Grouted:	1	Pmp cpcity:	18
Latitude:	42.60984921		
Longitude:	-83.26732914		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	964
Elev miv:	964	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	39
Pct aq d:	39	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	61
Pct cm d:	61	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	15	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	80	A pct aq2:	25
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	75	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	75	Pct maq 2:	0
Pct cm 2:	25	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	25	Pct maq 4:	0
Pct cm 4:	75	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	80		
Horiz Conduct:	75.00008		
Vert Conduct:	.00013		
T2:	6000.006		
D50plek:	762.33555		

**20
SW
1/2 - 1 Mile
Higher**

MI WELLS MI20244860

Wellid:	63000003884	Import id:	63028003302
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	SOUTH BLOOMFIELD HIGHLANDS		
Well addr:	SOUTH BLOOMFIELD HIGHLANDS #2		
Well depth:	227		
Well type:	Type I public		
Wssn:	6080		
Well num:	2	Driller id:	163
Const date:	1951-06-09 00:00:00.000	Case type:	Unknown
Case dia:	8		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	222		
Screen frm:	216.3		
Screen to:	227		
Swl:	68		
Test depth:	42		
Test hours:	20		
Test rate:	540	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	382
Latitude:	42.60556		
Longitude:	-83.263933		
Methd coll:	GPS Code Meas. Std. Positioning Svc. SA Off		
Elevation:	939		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	938	Elev dif:	1
Elev miv:	939	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	13
Pct aq d:	13	Pct aq r:	0
Pct maq:	6	Pct maq d:	6
Pct maq r:	0	Pct cm:	41
Pct cm d:	41	Pct cm r:	0
Pct pcm:	40	Pct pcm d:	40
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	30	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	159	A pct aq2:	19
A pct maq2:	8	A pct pcm2:	17
A pct cm2:	56	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	85	Pct pcm 4:	15
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	40	Pct cm 7:	60
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	13	Pct maq 8:	6
Pct cm 8:	31	Pct pcm 8:	50
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	159		
Horiz Conduct:	9.45279		
Vert Conduct:	.00065		
T2:	1502.9937		
D50plek:	406.95241		

**21
NNE
1/2 - 1 Mile
Lower**

Site ID: 635122
 Groundwater Flow: N
 Shallowest Water Table Depth: Not Reported
 Deepest Water Table Depth: Not Reported
 Average Water Table Depth: 3.43
 Date: 10/01/1996

AQUIFLOW 39525

**22
West
1/2 - 1 Mile
Higher**

MI WELLS MI20244861

Wellid:	63000003885	Import id:	63028004001
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	ALVIN E TAYLOR		
Well addr:	135 BLOOMFIELD BD		
Well depth:	125		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1968-07-08 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	120		
Screen frm:	120		
Screen to:	125		
Swl:	100		
Test depth:	121		
Test hours:	2.5		
Test rate:	12	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.61221715		
Longitude:	-83.26982473		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	10
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	34
Pct aq d:	34	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	1
Pct cm d:	1	Pct cm r:	0
Pct pcm:	40	Pct pcm d:	40
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	25	A pct aq:	96
A pct maq:	0	A pct pcm:	0
A pct cm:	4	A pct na:	0
A thickns2:	25	A pct aq2:	96
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	4	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Medium To Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	50	Pct na 3:	50
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	95
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	5
Pct aq 6:	96	Pct maq 6:	0
Pct cm 6:	4	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	25		
Horiz Conduct:	74		
Vert Conduct:	.0025		
T2:	1850.0001		
D50plek:	77.91476		

D23
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20244884

Wellid:	63000003912	Import id:	63028004028
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	LYLE H SAWIN		
Well addr:	1640 S WOODWARD		
Well depth:	113		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1975-08-05 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	114		
Screen frm:	110.5		
Screen to:	114		
Swl:	90		
Test depth:	105		
Test hours:	2		
Test rate:	15	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.60878665		
Longitude:	-83.26923303		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	16
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	3
Pct aq d:	3	Pct aq r:	0
Pct maq:	11	Pct maq d:	11
Pct maq r:	0	Pct cm:	73
Pct cm d:	73	Pct cm r:	0
Pct pcm:	13	Pct pcm d:	13
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	3	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	23	A pct aq2:	13

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	87	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	60	Pct cm 1:	40
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	25	Pct pcm 2:	75
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

D24
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20244883

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000003909	Import id:	63028004025
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	LYLE H SAWIN		
Well addr:	1640 S WOODWARD		
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1975-07-29 00:00:00.000	Case type:	Unknown
Case dia:	0		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60878665		
Longitude:	-83.26923303		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	964	Elev dif:	16
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	4
Pct aq d:	4	Pct aq r:	0
Pct maq:	12	Pct maq d:	12
Pct maq r:	0	Pct cm:	74
Pct cm d:	74	Pct cm r:	0
Pct pcm:	10	Pct pcm d:	10
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	60	Pct cm 1:	40
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	50	Pct pcm 2:	50
Pct na 2:	0	Pct aq 3:	20
Pct maq 3:	0	Pct cm 3:	80
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

25
SSW
1/2 - 1 Mile
Lower

FED USGS USGS2308710

Agency cd:	USGS	Site no:	423604083153701
Site name:	02N 10E 10BACB 01		
Latitude:	423604	EDR Site id:	USGS2308710
Longitude:	0831537	Dec lat:	42.60114462
Dec lon:	-83.2602115	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	26
State:	26	County:	125
Country:	US	Land net:	S10T02NR10EM
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	915		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Detroit. Michigan. Area = 685 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19560101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	PLEISTOCENE SERIES		
Well depth:	210	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
 Water quality data end date: 1961-02-16
 Ground water data begin date: 1956-10-01
 Ground water data count: 1

Water quality data begin date: 1961-02-16
 Water quality data count: 1
 Ground water data end date: 1956-10-01

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1956-10-01	58.00	

27
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20260650

Wellid:	63000021264	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	GREGG SPEAKS		
Well addr:	43 S. BERKSHIRE		
Well depth:	128		
Well type:	Irrigation		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	2002-12-17 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	119		
Screen frm:	120		
Screen to:	128		
Swl:	70		
Test depth:	115		
Test hours:	2		
Test rate:	30	Test methd:	Air
Grouted:	1	Pmp cpcity:	10
Latitude:	42.60711396		
Longitude:	-83.26938223		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	41
Pct aq d:	41	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	59
Pct cm d:	59	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	35	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	58	A pct aq2:	60

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	40	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	25
Pct maq 1:	0	Pct cm 1:	75
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	65	Pct maq 2:	0
Pct cm 2:	35	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	35
Pct maq 5:	0	Pct cm 5:	65
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	58		
Horiz Conduct:	146.55176		
Vert Conduct:	.00025		
T2:	8500.0023		
D50plek:	769.9328		

28
SSE
1/2 - 1 Mile
Lower

FED USGS USGS2308705

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	423558083145301
Site name:	02N 10E 10ADAA 01		
Latitude:	423558	EDR Site id:	USGS2308705
Longitude:	0831453	Dec lat:	42.59947805
Dec lon:	-83.24798892	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	26
State:	26	County:	125
Country:	US	Land net:	S10T02NR10EM
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	890		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Detroit. Michigan. Area = 685 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	PLEISTOCENE SERIES		
Well depth:	61.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1961-02-16
Water quality data end date:	1961-02-16	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for OAKLAND County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for OAKLAND COUNTY, MI

Number of sites tested: 61

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.189 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.539 pCi/L	93%	7%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Michigan Department of Natural Resources

Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551

Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

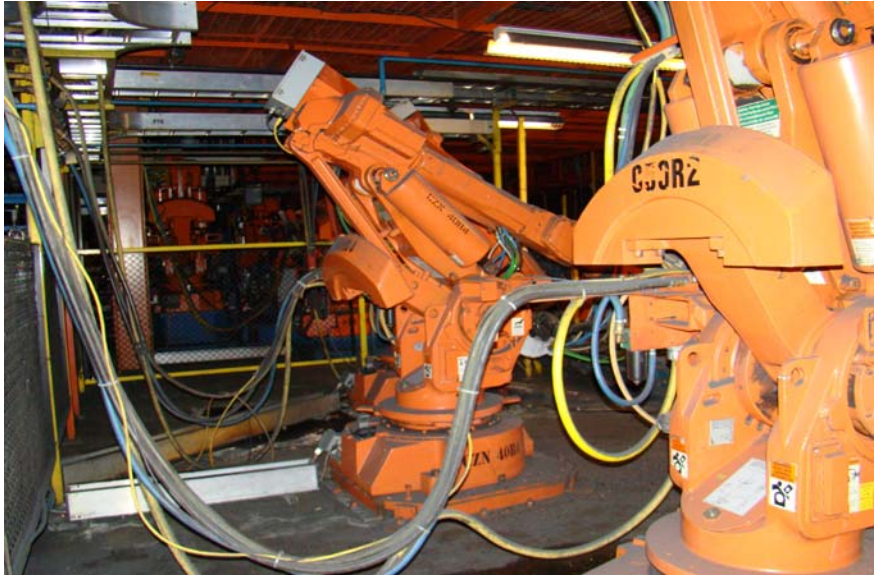
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APPENDIX D

Photograph Log

**Phase I Environmental Site Assessment
2100 South Opdyke Road, Pontiac, MI**

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 1	
PHOTOGRAPHER: NG	
DATE: 2/11/10	
DIRECTION:	
COMMENT: Aboveground hydraulic robots in the Body Shop	

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 2	
PHOTOGRAPHER: NG	
DATE: 2/11/10	
DIRECTION:	
COMMENT: Chemical sequestering area #1 in Body Shop	

**Phase I Environmental Site Assessment
2100 South Opdyke Road, Pontiac, MI**

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 3	
PHOTOGRAPHER: NG	
DATE: 2/11/10	
DIRECTION:	
COMMENT: Chemical sequestering area #2 in Body Shop	

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 4	
PHOTOGRAPHER: NG	
DATE: 2/11/10	
DIRECTION:	
COMMENT: Underground hydraulic lift in Body Shop	

**Phase I Environmental Site Assessment
2100 South Opdyke Road, Pontiac, MI**

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 5	
PHOTOGRAPHER: NG	
DATE: 2/16/10	
DIRECTION:	
COMMENT: Wastewater Vat located below the Paint Shop	

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 6	
PHOTOGRAPHER: NG	
DATE: 2/16/10	
DIRECTION:	
COMMENT: Peeling lead-based paint in Paint Shop	

CLIENT: Motors Liquidation	SITE NAME: GMVM Pontiac Assembly

**Phase I Environmental Site Assessment
2100 South Opdyke Road, Pontiac, MI**

Appendix D - Photograph Log

Company	
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 7	
PHOTOGRAPHER: NG	
DATE: 2/16/10	
DIRECTION: Southeast	
COMMENT: Wastewater Treatment Plant tank	

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 8	
PHOTOGRAPHER: NG	
DATE: 2/16/10	
DIRECTION: South	
COMMENT: Rail Shipping area rail spurs	

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI

**Phase I Environmental Site Assessment
2100 South Opdyke Road, Pontiac, MI**

Appendix D - Photograph Log

PHOTOGRAPH #: 9	
PHOTOGRAPHER: NG	
DATE: 2/11/10	
DIRECTION: South	
COMMENT: AST storage east of Assembly Plant Building	

CLIENT: Motors Liquidation Company	SITE NAME: GMVM Pontiac Assembly
PROJECT #: BN015317	SITE LOCATION: 2100 South Opdyke Road, Pontiac, MI
PHOTOGRAPH #: 10	
PHOTOGRAPHER: NG	
DATE: 2/11/10	
DIRECTION: South-southeast	
COMMENT: UST storage area east of Assembly Plant Building	

APPENDIX E

Qualifications of Environmental Professionals

Education

BS, Natural Resources and
Environment, University of
Michigan, Ann Arbor, MI, 2007

Years of Experience

Total – 2+

With ARCADIS – 2+

Additional Training

40 Hour Hazwoper

Federal Railroad Association
Training

Natalie H. Gillman Environmental Scientist

Ms. Gillman has over 2 years of experience obtaining and analyzing documentation and drafting Phase I Environmental Site Assessment (ESA) reports in accordance with the ASTM Standard Practice E1527. Ms. Gillman has completed well over 30 Phase I ESA reports during her time at ARCADIS. Ms. Gillman has also organized, contacted subcontractors for subsurface investigation activities and drafted several Phase II ESA reports. Ms. Gillman has experience enforcing soil erosion and sedimentation control practices in accordance with Part 91 of the Natural Resources and Environmental Protection Act. Ms. Gillman also has knowledge of conducting research, analyzing data, and generating reports in a university setting.

Due Diligence

National Gypsum Co., Several Locations Nationwide

2008

Completed Phase I ESA reports on properties consisting of vacant land and wallboard manufacturing plants. Obtained documentation from federal, state, county and local agencies regarding site history and current operations of the individual properties. Researched and evaluated possible environmental liabilities to assist the client in deciding the appropriateness for potential financing and property sales for each facility.

Confidential Client, Several Locations Nationwide

2008

Completed Phase I ESA reports on automobile dealerships and service facilities. Obtained documentation from federal, state, county and local agencies regarding site history and current operations of the individual properties. Researched and evaluated possible environmental liabilities to assist the client in deciding the appropriateness for potential financing and property sales for each facility.

Subsurface Investigation

Confidential Client, Several Locations Nationwide

2008

Completed Phase II ESA reports for automobile dealerships and service facilities. Contracted subcontractors to perform subsurface investigation activities, organized and prepared field personnel for proposed activities, analyzed analytical data from soil and groundwater samples collected during subsurface investigation activities, and formulated conclusions regarding status of the site based on the outcome of the subsurface investigation.

Environmental Program

Charter Township of West Bloomfield – Environmental Department, Michigan

2007

Wrote press releases and maintained website for public environmental education. Created and began implementation of a Township-wide Environmental Sustainability Policy with guidelines for procedures including, but not limited to, recycling, waste reduction, pollution prevention, and best management practices. Enforced soil erosion and sedimentation control measures at various commercial and residential construction sites.

Research Assistance

University of Michigan – School of Natural Resources, Michigan

2007

Tested the effects caudal fin length on a fish has on the fish swimming habits including speed and endurance. Operated laboratory equipment including flow tanks, balances, and video recording equipment. Performed subsequent statistical analysis and reporting of data collected.

DOUGLAS M. LINDSAY, P.G.
Senior Project Geologist

*hydrogeologic investigations
project management
LSP MCP services
soil and groundwater management*

Mr. Lindsay has over 12 years of experience involving subsurface and hydrogeologic investigations, contaminated soil and groundwater management, state and federal regulatory compliance, environmental remediation programs, and American Society for Testing and Materials (ASTM) due diligence. Related projects have included the management of extensive state and federal environmental investigations, subsurface soil and groundwater precharacterization programs, asbestos assessments, lead paint screening, radon sampling, and soil, groundwater, and ambient air field screening. Mr. Lindsay has also conducted groundwater elevation surveys, fate and transport modeling, groundwater and surface water sampling, soil sampling, and soil gas sampling.

Mr. Lindsay has supervised and managed numerous projects simultaneously including operation and maintenance (O&M) of groundwater remediation systems, construction project management, contaminated soil and groundwater management, soil vapor extraction systems, dewatering systems, risk assessments, underground storage tank removals, and Massachusetts Contingency Plan (MCP) regulatory reports. Mr. Lindsay is also involved with researching and evaluating environmental liabilities and determining the cost/benefit analysis associated with applicable remedial measures. Mr. Lindsay manages field staff personnel on the completion of multiple projects.

EDUCATION

B.A. Environmental Science, Boston University, 1995

The School for Field Studies, Rainforest Ecology, Belize, Central America

REPRESENTATIVE EXPERIENCE

- **Subsurface Investigation, Soil Management and Regulatory Closure, Worcester, Massachusetts.** LFR was retained by a private developer for the proposed construction of a retail pharmacy on a property formerly occupied by a truck fueling terminal and lumber yard. Mr. Lindsay oversaw the completion of an ASTM Phase I Environmental Site Assessment and Phase II Subsurface Investigation to investigate potential impacts from former gasoline and diesel fuel aboveground and underground storage tanks. A total of 35 soil borings and 6 monitoring wells were completed to evaluate the nature and extent of soil and groundwater contamination. Based on the results of the sampling data, Mr. Lindsay coordinated the removal of 50 cubic yards of petroleum-contaminated soil for off-site recycling. Results of a site-specific risk characterization concluded that a condition of no significant risk existed. Mr.

Lindsay prepared a Class A-2 Response Action Outcome (RAO) in closure report accordance with the MCP.

- **Construction Management, Soil Disposal Coordination and Tank Removal Activities, Kuss Middle School, Fall River, Massachusetts.** LFR was retained by an earthwork contractor to provide construction management activities and soil disposal coordination during excavation activities associated with the construction of a new middle school building. The property was formerly occupied by textile mill buildings and previous soil sampling results identified contaminated urban fill material which required off-site disposal. During soil excavation activities a 1,000-gallon abandoned underground storage tank was discovered. Mr. Lindsay supervised the removal of the tank, arranged for disposal of the tank and associated soil, and prepared a tank closure report in accordance with tank closure guidance and the Massachusetts Contingency Plan. Mr. Lindsay characterized and coordinated the removal of 1,570 tons of urban fill soils to a Massachusetts Unlined Landfill and a soil recycling facility.
- **MCP and US EPA TSCA Site Closure, Hingham Shipyard – East Side Fill Area, Hingham, Massachusetts.** At the request of a private developer, LFR was retained to delineate and remove PCB-contaminated soil from an area proposed for future residential development. Following the submittal of a US EPA-approved Self-Implementing Plan and a MassDEP-approved Release Abatement Measure (RAM) Plan, Mr. Lindsay oversaw a soil precharacterization program designed to select off-site disposal facilities for the PCB soil. Confirmatory soil samples were collected from test pits at 10-foot sampling frequencies to delineate areas of PCBs containing either greater than or less than 50 mg/kg. Discrete soil samples were collected and analyzed for PCBs in the field with a US EPA-conditionally accepted Dexsil L2000 DX screening instrument. In addition, two overburden and two bedrock groundwater monitoring wells were installed and sampled to assess groundwater conditions. Following the removal of 6,910.13 tons of greater than 50 mg/kg PCB soils and 8,240.47 tons of non-hazardous PCB soil, a site-specific risk assessment concluded that remaining PCB concentrations in soil were below the most-stringent residential cleanup criteria. Mr. Lindsay prepared a Completion of Self-Implementing Plan report and a RAM Completion and Class A-2 RAO report.
- **Precharacterization Program, Readville 5 MBTA Yard, Dedham, Massachusetts.** LFR was retained by a developer interested in constructing residential properties on a former 40-acre rail yard. Mr. Lindsay assisted in the development of a soil precharacterization sampling plan in accordance with MassDEP protocol. Mr. Lindsay supervised a total of 250 test pits in GPS-surveyed locations over a two-week period. As part of the management plan, 900 soil samples were field screened in-situ for RCRA 5 metals with an XRF instrument. The depth of fill material was determined at each location and concentrations of arsenic and lead were presented through 3-D visualization software to the client. Construction management and soil remediation alternatives have been presented at public meetings and will be implemented following public and MassDEP comment.
- **Precharacterization Program, JFK School, Waltham, Massachusetts.** Prior to overseeing field activities, Mr. Lindsay prepared a Soil Management Plan, Construction Materials Management Plan, and a worker Health & Safety Plan for construction activities. Following numerous meetings with the client, Mr. Lindsay identified and selected areas to be sampled as part of a large-scale soil characterization program involved with the redevelopment of the JFK Middle School. A total of 25 test pits were excavated in areas proposed for excavation for foundations and subsurface utilities. Soil quantities were calculated and determined to be

either regulated or unregulated materials. In order to meet stringent project deadlines, facility approvals were expedited and materials transported off-site were managed and documented. A total of 4,500 cubic yards of soil was transported to unlined landfills.

- **Underground Storage Tank Closures and Immediate Response Action, Charlestown, Massachusetts.** Prior assessments performed by LFR had identified the potential for historic USTs at a former rubber manufacturing facility. Since the facility was proposed for residential development, Mr. Lindsay supervised the completion of a supplemental subsurface investigation. Following the identification of two 'benzol' USTs through a GPR survey, a closure strategy was implemented to meet client and MassDEP expedited deadlines. Following MassDEP approvals, an immediate response action was undertaken in response to petroleum contamination in the vicinity of the USTs. Mr. Lindsay oversaw the removal and disposal of the USTs and contaminated soil and groundwater in accordance with the MCP. Mr. Lindsay prepared a response action outcome closure report for site closure in accordance with the MCP.
- **Precharacterization Programs, Logan International Airport, East Boston, Massachusetts.** Mr. Lindsay oversaw four separate soil and groundwater precharacterization programs associated with the redevelopment of the Terminal A area. Activities included supervising the advancement of 80 soil borings and test pits, the installation of monitoring wells, and the collection of 200 soil and groundwater samples. Laboratory analysis results were utilized to characterize the soils and select the most appropriate, cost-effective disposal facilities for the soils. Mr. Lindsay was also responsible for managing field staff and prepared comprehensive reports documenting the findings of the investigations. A total of 270,000 tons of soil was characterized, removed, and transported to 23 Massport and MassDEP-approved facilities. Detailed coordination with the client, subcontractors, and state officials was necessary to complete the project in an organized and timely manner. Additional responsibilities included spill management, health and safety oversight, air sampling, and the operation of temporary groundwater treatment systems for isolated jet-A fuel-impacted areas.
- **Soil Disposal Management/Subcontractor Coordination, Former Mystic Station Power Generating Facility, Everett, Massachusetts.** A total of 60,000 tons of No. 6 oil-contaminated soil and 30,000 tons of urban fill material was excavated and removed from the facility throughout the project's demolition phase. Activities included coordination with seven asphalt batching facilities, two landfills, and several transportation companies. Mr. Lindsay also assisted in the pre-characterization of excavated soil to determine proper off-site disposal alternatives. Continuous management of soil volumes and contractor invoices was necessary to expedite the soil removal process and reduce delays to the project.
- **Tidal Study, Former Mystic Station Power Generating Facility, Everett, Massachusetts.** Mr. Lindsay completed a study involving the effect of tidal fluctuation on groundwater elevation in the vicinity of a large soil excavation and two one-million-gallon bulk fuel oil tanks. The tidal data and its effect on groundwater elevation were used to assess the stability of the supporting matrix beneath the bulk oil tanks. The data assisted in the determination of the type of engineering needed to protect the structural integrity of the fuel oil tanks during planned soil excavation located adjacent to the tanks. By including the tidal fluctuation data, excavation in the immediate vicinity of the tanks was conducted without jeopardizing the tanks or causing delays to the project.

- **Multiphase Investigation, Stoughton, Massachusetts.** In order to bring the property into compliance with the MassDEP, Mr. Lindsay completed an MCP Phase I and Tier Classification to address eight areas of concern. Each area of concern was associated with a release of petroleum compounds and lead from the former use of the Site as an asphalt batching facility. Existing soil and groundwater analysis data, soil removal quantities, and previous RAM Plans completed by others were used to delineate the existing areas of contamination and propose remedial alternatives. The primary sources of subsurface impacts were attributed to asphalt fill material, liquid asphalt tanks, buried drums, and a dry well. The property was classified as a Tier II disposal site and response actions were completed under a new RAM Plan which included oxygenate injections, petroleum-contaminated soil removal, and natural attenuation monitoring. A partial RAO closure report was prepared for seven of the eight areas of concern and natural attenuation monitoring of one area is ongoing.
- **PCB Release Abatement, Former Edgar Station, Weymouth, Massachusetts.** Mr. Lindsay delineated the extent and distribution of high concentrations of PCBs impacted soil and groundwater beneath several former transformers at the facility. In accordance with US EPA TSCA regulations, activities included on-site, quantitative PCB field screening of soil, groundwater, and surface wipe samples, supervision of soil excavation, and management of soil transportation to select soil disposal facilities. Several thousand tons of PCB-impacted soil was removed, risk to on-site workers was eliminated, and future project demolition milestones were completed on schedule.
- **Multiphase Investigation and Remedial Operation Status, Sharon, Massachusetts.** Mr. Lindsay conducted a Phase I and a Phase II Comprehensive Site Assessment at a former manufacturing facility. Activities included the calculation of groundwater flow and determining the extent and distribution of chlorinated solvents in groundwater. Mr. Lindsay assisted in source area location, fate and transport – mass flux calculations, and risk assessment. As part of a Phase III study, remedial alternatives were proposed to comply with stringent drinking water standards applicable to the property. Because natural attenuation and monitoring were determined to be the most cost-effective alternatives, a Phase IV Remedy Implementation Plan and Phase V Remedial Operation Status were prepared and submitted to the MassDEP. Semi-annual groundwater monitoring and status reports are generated for client and MassDEP review.
- **Multiphase Investigation, Stoughton, Massachusetts.** Mr. Lindsay completed a Phase I Site Assessment at a former trucking facility. Activities included the review of prior U.S. Environmental Protection Agency (U.S. EPA) CERCLA investigations, identification of an underground storage tank, and completion of a Tier Classification for the property. A Phase II Comprehensive Site Assessment completed by Mr. Lindsay included the installation of several soil borings and monitoring wells and removal of an underground storage tank and impacted soil in order to delineate subsurface impacts. A Method 3 risk characterization was completed utilizing all existing site data and an RAO closure report was completed.
- **RAOs and Activity and Use Limitations (AULs), Cambridge, Massachusetts.** Several subsurface investigations designed to delineate the extent of urban fill material were supervised by Mr. Lindsay on six parcels of industrial land in Cambridge. At each parcel, site-specific risk characterizations followed by the preparation of separate Activity and Use Limitations restrictive of current and future site uses were completed in order to effectively ‘close’ the parcels under the MCP.

- **Phase I and Phase II Environmental Investigations, Mesa, Arizona.** Mr. Lindsay completed Phase I and Phase II environmental investigations at a dry cleaning facility and oversaw several Geoprobe borings. Based on soil sampling results, a risk characterization was conducted in order to bring the property into compliance with State of Arizona regulations.
- **Corrective Action Plan and Underground Storage Tank Removal, Alexandria, Virginia.** Mr. Lindsay monitored and maintained a groundwater petroleum extraction system for two years at an active trucking facility. After supervising the dismantling of the groundwater extraction system, over 900 tons of petroleum-contaminated soil was removed and the property was closed in accordance with Virginia regulations.

REGISTRATIONS/CERTIFICATIONS

Professional Geologist, New Hampshire, No. 590

Massachusetts Asbestos Inspector Training

Hazardous Materials Transportation Training and Testing – US DOT

OSHA HazWOPER and Emergency Response Training – 40-hour and Annual 8-hour Refreshers

Niton X-Ray Fluorescent Analyzer (XRF) Certified

PROFESSIONAL HISTORY

LFR, Inc., Senior Project Geologist, April 1999 to present

Ransom Environmental Consultants, Inc., Project Geologist, July 1995 to April 1999

RICHARD G. STROMBERG, CPG, LSP, LEP

Senior Associate

remedial designs and implementations
geoenvironmental investigations
soil re-use management
site planning and development
multi-media regulatory compliance audits

As a Senior Associate, Mr. Stromberg's responsibilities include working in multiple technical disciplines to complete geoenvironmental and regulatory compliance projects. His regulatory compliance experience includes work with hazardous waste management; the MassDEP – MCP Program; the CT DEP – RSR Program; multiple state and federal regulated programs; environmental auditing and facility compliance auditing; water resources and geotechnical evaluations; Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Superfund Sites; and Resource Conservation and Recovery Act (RCRA) Part B and solid waste management.

Mr. Stromberg specializes in the creative management of excess soils from construction/demolition projects. Mr. Stromberg is responsible for review and approvals of several “< RCS-1” soil re-use sites and MassDEP permitted landfills in the Boston Area.

Mr. Stromberg has experience negotiating with regulatory agencies and preparing information in support of expert testimony. Mr. Stromberg's geoenvironmental experience includes conducting site investigations and remediations; hydrogeologic assessments, including groundwater flow modeling; performance evaluations; site planning and development; underground storage tank (UST) closures; facility closures; and environmental impact assessments, including large geohydrological investigations and remediations. In addition to the management of projects, he also manages technical practice groups and office staff.

EDUCATION

B.S. Geology, University of Massachusetts, Amherst, 1980

Graduate Level Courses, Syracuse University and Harvard University

REPRESENTATIVE EXPERIENCE

Mr. Stromberg has completed projects involving site audits, resource evaluations, and RCRA and CERCLA studies across the U.S. Project descriptions are available upon request. The following provides a representative list of comprehensive environmental projects in Massachusetts and Connecticut.

- **Terminal A Redevelopment, Logan International Airport, East Boston, Massachusetts.** Mr. Stromberg was the Project Licensed Site Professional (LSP) for

Delta's Terminal A Redevelopment Project at Logan International Airport in East Boston, Massachusetts. Mr. Stromberg coordinated environmental materials management, inspections, and reporting on behalf of Delta and their contractor Skanska USA Building, Inc. LFR also reported to the owner (Massport). The project included coordination with the Massachusetts Department of Environmental Protection (MassDEP), Massport, and Making Projects Work (MPW) on behalf of Delta. Site activities included dismantling a prior terminal/fuel distribution system (FDS), as well as construction of a new terminal and satellite terminal buildings.

Mr. Stromberg prepared a Construction Release Abatement Measure (CRAM) Plan for Massport and Delta for submittal to the MassDEP as required under the Massachusetts Contingency Plan (MCP). The plan was reviewed and approved by Delta/MPW and their consultants, Burns & McDonnell (B&M) and Ambient Engineering along with Massport.

The plan included a Risk Characterization for the project, which was reviewed by B&M to determine soil and groundwater "Cleanup Criteria," which would be safe for current workers and future workers/passengers at the Site. The plan identified key roles and responsibilities for Massport, Delta, Skanska, and its subcontractors. In addition, the plan included provisions for Health & Safety, groundwater de-watering management through a National Pollutant Discharge Elimination System (NPDES) Permit granted by EPA Region I, and a Storm Water Pollution Prevention plan (SWPPP) also approved by EPA. LFR coordinated groundwater testing and reporting under NPDES for the project and trained Skanska to implement the SWPPP.

The plan provided provisions for "Precharacterization Studies" to be conducted in-situ for soil and groundwater so that soil stockpiling was minimized and demolition/construction efforts were conducted efficiently. Once data was received and reviewed by LFR, reports were prepared for the team specifying the appropriate off-site disposal/recycling facilities that were utilized for soil management. These facilities were approved by Massport and Delta/AIG for the project. Shipping documents known as MCP Bills-of-Lading (BOLs) were also prepared by LFR for the T&D of soils.

The plan was utilized as the document-of-record to conduct field testing, inspection, and materials management/spill response for the project. LFR maintained a staff of 2-5 trained professionals at the Site to coordinate all aspects of the program through the LSP to Massport, Delta/MPW, and Skanska.

LFR also worked closely with Massport on behalf of Delta and Skanska to prepare a revised feasibility study and design plan (MCP-Phase III/IV documents) to demonstrate to MassDEP that efforts were undertaken during the project to implement a "permanent solution" for the Site, which is listed by MassDEP under the MCP. This document was reviewed and approved by MassDEP.

The environmental management project was performed from June 2002 to 2005. LFR submitted periodic "RAM Status Reports" to MassDEP and to the Project Team summarizing the findings and the quantities of materials managed to date.

- **Soil Re-use Management Plans and Approvals, Eastern Massachusetts.** Soil Re-use Management Plans for <RCS-1” soils were prepared for six re-use sites in eastern Massachusetts in accordance with “anti-degradation” provisions in the MCP. The plans were prepared for property developers and input/comments were received from MassDEP. Mr. Stromberg provides periodic review and approvals of certain candidate soils from various construction/demolition projects in eastern Mass for these sites. Mr. Stromberg also conducts LSP review of candidate soils for two MassDEP permitted landfills in eastern Mass under MassDEP’s “COMM-97-001” soil disposal/re-use policy.
- **Power Developer, Eastern Massachusetts.** Mr. Stromberg served as Project LSP for the reconstruction of two power distribution facilities in Charlestown and Weymouth Mass. The work involved collection of a large amount of soils data during the project and preparation of RAM Plans and Status Reports and submittals to MassDEP. Work also involved on-call emergency spill response.
- **Lighting Manufacturer, Fall River, Massachusetts.** Prepared initial Class A-3 RAO/AUL in 1996 for solvent release to groundwater. RAO was audited by MADEP in 2000. Prepared Audit Response Plan approved by MassDEP. Conducted Supplemental Phase II investigations and demonstrated that plume was stable or decreasing, was discharging to nearby brook and Taunton River at safe levels, and posed no significant risk to on-site workers and downgradient facilities in the industrial park. MassDEP approved Supplemental Phase II Report. Concluded that no further monitoring was needed and RAO/AUL submittal made in winter 2004. Mr. Stromberg has also served as LSP-of Record for an on-going hydraulic oil release at the site. Phased Reports have been submitted and a Remedy Operation Status (ROS) Report submitted in May 2007. Worked with owner to delineate cracks in floor and pits to minimize oil loss and reconciliation of oil.
- **Residential Developer, Hingham, Massachusetts.** Mr. Stromberg was the LSP-of-Record to assess and remediate a contaminated fill area slated for residential development at the Hingham Shipyard. The fill area contained extensive PCBs and plans were prepared for submittal to MassDEP and U.S. Environmental Protection Agency (U.S. EPA) TSCA PCB Coordinator for approval. Several thousand tons of soils were delineated and excavated for off-site disposal at pre-approved facilities. Air samples were collected to protect residents nearby. An RAO Report was submitted to MassDEP and U.S. EPA and was approved. Another solvent release from a former storm drain was found on the site and an RAO is currently being prepared to demonstrate that there is no on-going source and that residuals will decline with time due to anaerobic degradation.
- **Industrial Metal Manufacturer, Worcester, Massachusetts.** Conducted Phase-I Limited Site Investigation, Release Abatement Measure (RAM), Tier Classification, Downgradient Property Status (DPS) LSP Opinion, Immediate Response Action (IRA) report, Phase-II Comprehensive Site Assessment (CSA) report, and Phase-III evaluation of remedial alternatives for an industrial site with multiple releases of solvents, oils, and metals.
- **City Housing Authority, Boston, Massachusetts.** Developed an Imminent Hazard Evaluation, and an Immediate Response Action (IRA) plan to address lead

contamination at a housing development. Also completed Phase I/Tier classification and IRA Status Reports. Completed Phase III feasibility study in consort with architect for landscaping as remedy. Finally, worked with landscape architect to prepare a Phase IV Final Design that included site re-landscaping as a remedy. Prepared technical specifications and design drawings for the plan. Coordinated work with a tenants group to disseminate information. Prepared RAO with an AUL for final closure.

- **Automotive Repair Facility, Brookline, Massachusetts.** Delineated gasoline plume on site and separated waste oil plume for remediation by facility tenant. Prepared Phase I/Tier Classification. Conducted Imminent Hazard/Critical Exposure Pathway evaluation for vapor migration to residences. Completed Phase II/III Reports. Evaluated in-situ aerobic biodegradation/chemical oxidation and natural attenuation as feasible remedial alternatives. Completed pilot scale studies to assess oxidation and it was found to be infeasible. Prepared Phase IV/V document and ROS for monitored natural attenuation (MNA) as the feasible alternative and monitoring is ongoing.
- **Electronics Manufacturer, Methuen, Massachusetts.** Delineated dissolved copper, nickel, and zinc plume and source in groundwater from a former plating operation. Prepared pilot scale study to demonstrate that 1 molar sodium hydroxide/bicarbonate was a feasible alternative to raise groundwater pH and precipitate metals. Prepared RAM Plan to inject heated solution into groundwater with subsequent monitoring. Determined that injection program was successful in lowering dissolved metal concentrations sufficiently so that a Class A-2 RAO submittal was made in 2005.
- **Westover AFB, Westfield, Massachusetts.** Conducted geophysical investigation (ground penetrating radar) at solid waste landfill to assess extent of disposal activities and migration of oils. Developed report of findings to be used in evaluation of remedial alternatives for landfill.
- **Electronics/ Lighting Manufacturer, Watertown, Connecticut.** Conducted Phase I and II investigations for solvent release to overburden and bedrock with potential migration to residential wells. Prepared environmental condition assessment form (ECAAF) for submittal to CTDEP. CTDEP approval granted for investigation and remediation under RSRs.
- **AlliedSignal, West Hartford, Connecticut.** Conducted Phase II and III comprehensive site assessments and supplemental Phase III investigation for solvent DNAPL release to overburden and dissolved phase migration to bedrock. Completed ECAAF for LEP oversight of remediation, which was approved by CTDEP. Prepared Phase III Remedial Action Plan (RAP) which consisted of shallow soil excavation, covering with a RCRA-compliant asphalt parking lot/cap, limited DNAPL recovery, and monitored natural attenuation in this industrial/commercial area. Solicited CTDEP approvals throughout process.
- **Office Building, Hartford, Connecticut.** Conducted site investigation under voluntary remediation program and approved ECAAF. Conducted monitoring program and solicited CTDEP approval to terminate compliance monitoring with no post remediation monitoring required. Demonstrated upgradient contamination was not responsibility of site owner to remediate. Submitted LEP Verification of Remediation in January 2004.

REGISTRATIONS

Licensed Site Professional (LSP), Massachusetts No. 1008,

Certified Geologist, Maine, No. 276

Licensed Environmental Professional (LEP), Connecticut, No. 196

Licensed Environmental Professional (LEP), North Carolina, No. 199601717

Certified Professional Geologist (CPG), AIPG No. 8367

Registered Professional Geologist, Tennessee, No. TN-1797

PROFESSIONAL AFFILIATIONS AND COURSES

Mr. Stromberg is trained in OSHA HazWoper CFR 1910.120 and work at low-level radiation sites through U.S. Nuclear Regulatory Commission. Mr. Stromberg maintains professional affiliations with AIG, NWWA, GSA, EPOC, and LSPA. Mr. Stromberg is required to enroll in 4 to 5 professional training seminars each year to maintain LSP and LEP licensure.

PROFESSIONAL HISTORY

LFR Inc., Senior Associate, May 1999 to present

O'Brien & Gere, Managing Scientist, 1983 to May 1999

Haley & Aldrich, Inc. 1981 to 1983

Years with Other Firms: 18