

March 11, 2010

BN015317.0002

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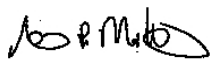
Subject: Phase I Environmental Site Assessment
MLC ID 1120
Flint Flowthrough Warehouse
4002 James Cole Boulevard
Flint, Michigan

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 1120
Flint Flowthrough Warehouse
4002 James Cole Boulevard
Flint, Michigan**

**March 11, 2010
ARCADIS Project No. BN015317.0002**

Prepared for
Motors Liquidation Company
500 Renaissance Drive, Suite 1400
Detroit, Michigan 48243

Prepared by
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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:

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Senior Staff Geologist

Report Reviewed By:



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Senior Geologist

EXECUTIVE SUMMARY

ARCADIS Inc. (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the Flint Flowthrough Warehouse property located at 4002 James Cole Boulevard, Flint, Michigan (the Site). The Site consists of approximately 20 acres of land and is currently vacant. The Site is improved with a 150,600-square foot warehouse on the north side and a 1,400-square foot boiler house on the south side. The buildings are surrounded by an asphalt-paved parking lot. Additionally, there is a helicopter pad on the southwest portion of the Site. Sanborn Fire Insurance maps and aerial photographs identify the Site as residential and vacant from at least 1922 until at least 1972. In 1982 the Site was vacant. From at least 1992 until the present the Site has been occupied by a commercial/industrial building. The Site is currently vacant.

The purpose of the Phase I ESA is 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.

Conclusion

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 4002 James Cole Boulevard, Flint, Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report. This assessment has revealed no evidence of RECs associated with the Site.

CONTENTS

EXECUTIVE SUMMARY	ii
1.0 INTRODUCTION	1
1.1 Purpose	1
1.2 Detailed Scope of Services	1
1.3 Significant Assumptions.....	2
1.4 Limitations and Exceptions	2
1.5 User Reliance	3
2.0 SITE DESCRIPTION	3
2.1 Location and Legal Description	3
2.2 Site and Vicinity General Characteristics	3
2.3 Current Use of the Site.....	4
2.4 Descriptions of Structures, Roads, and Other Improvements on the Site.....	4
2.4.1 Source of Potable Water	4
2.4.2 Sewage Disposal System.....	4
2.4.3 Heating/Cooling Systems	4
2.4.4 Solid Waste Disposal	4
2.5 Current Uses of Adjoining Properties	5
3.0 USER-PROVIDED INFORMATION	5
3.1 Title Records.....	5
3.2 Environmental Liens or Activity and Use Limitations.....	5
3.3 Specialized Knowledge.....	6
3.4 Commonly Known or Reasonably Ascertainable Information.....	6
3.5 Valuation Reduction for Environmental Issues.....	7
3.6 Owner, Property Manager, and Occupant Information.....	7
3.7 Reason for Performing Phase I	7

4.0 RECORDS REVIEW	7
4.1 Historical Use Information	7
4.1.1 Previous Environmental Reports	7
4.1.2 Historic Map Review	8
4.1.3 Aerial Photograph Review	9
4.1.4 City Directories	9
4.1.5 Historical Topographic Maps	9
4.1.6 Building/Planning Departments	10
4.1.7 Additional Record Sources	10
4.1.8 Summary of Historical Information	10
4.2 Historical Use Information on Adjoining Properties	10
4.3 Physical Setting	10
4.3.1 Geology	10
4.3.2 Hydrology	11
4.4 Standard Environmental Record Sources – Federal and State	11
4.4.1 Site12	
4.4.2 Federal Environmental Record Sources	13
4.4.3 State and Tribal Environmental Record Sources	14
4.4.4 Orphan Summary	15
4.5 Additional Environmental Records Sources	16
4.5.1 Fire Department	16
4.5.2 Health Department	16
4.5.3 Michigan Department of Environmental Quality	16
5.0 SITE RECONNAISSANCE	16
5.1 Methodology and Limiting Conditions	16
5.2 Current Site Use	16
5.3 Site Observations	17
5.3.1 Underground Storage Tanks (USTs)	17
5.3.2 Aboveground Storage Tanks (ASTs)	17
5.3.3 Hazardous Substance and Petroleum Use	17
5.3.4 Unlabeled Drums/Containers	17

5.3.5 Stained Soil or Pavement	17
5.3.6 Stains or Corrosion	17
5.3.7 Stressed Vegetation	17
5.3.8 Polychlorinated Biphenyls (PCBs)	17
5.3.9 Solid Waste/Dumping	17
5.3.10 Site Drainage.....	18
5.3.11 Pits, Ponds, Lagoons and Pools of Liquid	18
5.3.12 Wastewater	18
5.3.13 Wells	18
5.3.14 Septic Systems	18
5.3.15 Odors	18
5.3.16 Other Observations.....	18
6.0 INTERVIEWS.....	19
6.1 Interview with Owner/Key Site Manager	19
6.2 Site Occupants	19
6.3 Interviews with Local Regulatory Agencies	19
6.4 Interviews with Others	19
7.0 FINDINGS/OPINION	19
7.1 Known or Suspect Environmental Concerns	19
7.2 Historical Recognized Environmental Conditions	19
7.3 De Minimis Conditions	19
8.0 CONCLUSIONS	20
9.0 DEVIATIONS/DATA GAPS	20
10.0 ADDITIONAL SERVICES	20
11.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL.....	21
12.0 REFERENCES	1

FIGURES

- 1 Site Vicinity Map
- 2 Site Plan
- 3 USGS Topographic Map

APPENDICES

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

1.0 INTRODUCTION

ARCADIS Inc. (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the Flint Flowthrough Warehouse property located at 4002 James Cole Boulevard, Flint, Michigan (the “Site”). The Site consists of approximately 20 acres of land and is currently vacant. The Site is improved with a 150,600-square foot warehouse on the north side and a 1,400-square foot boiler house on the south side. The buildings are surrounded by an asphalt-paved parking lot.

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 4002 James Cole Boulevard, Flint, Genesee County, Michigan. The Site is located at the east side of James Cole Boulevard, adjacent to the southeast of the intersection of East Stewart Avenue and James Cole Boulevard.

Refer to Figure 1 for the location of the Site.

2.2 Site and Vicinity General Characteristics

The Site is approximately 20 acres of land that is situated in a mixed commercial and industrial area on the north side of Flint, Michigan. Commercial and industrial properties are located along the major roads.

2.3 Current Use of the Site

The Site is currently vacant and is occupied by a warehouse on the north side, a boiler house on the south side, and asphalt-paved parking areas surrounding the buildings.

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

The Site is currently vacant and is occupied by a warehouse on the north side, a boiler house on the south side, and asphalt-paved parking areas surrounding the buildings.

The Site is connected to the municipal sewer and water utilities and electrical utilities.

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

2.4.1 Source of Potable Water

The City of Flint provides drinking water to the Site.

2.4.2 Sewage Disposal System

The Site is serviced by the City of Flint municipal sewer system.

2.4.3 Heating/Cooling Systems

The Site buildings had previously been heated by the boilers located on the south side of the Site. The boilers are no longer in use.

2.4.4 Solid Waste Disposal

The Site is currently vacant and solid waste is not generated at the Site. No evidence of solid waste disposal was observed at the Site.

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 Stewart Avenue, across which is Universal Systems.
- The Site is abutted to the west by James P. Cole Boulevard, across which are commercial properties, including the North American Operating Center.
- The Site is abutted to the south by a vacant commercial property.
- The Site is abutted to the east by Interstate-475, across which are commercial properties.

3.0 USER-PROVIDED INFORMATION

The following items regarding the Site were requested by ARCADIS to the Client's representative, Mr. Robert Hare, the Motors Liquidation Company Project Manager for the Site. A copy of the questionnaire will be provided in Appendix A.

3.1 Title Records

Title records were not provided to ARCADIS for review.

3.2 Environmental Liens or Activity and Use Limitations

Mr. Robert Hare 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. Robert Hare was asked the following questions as part of the assessment:

- Does he 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:** Yes. Familiar with the Buick City and Flint North sites.
- Is he 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:** No
- Does he know the past uses of the property? **Answer:** No
- Does he know of specific chemicals that are present or once were present at the property? **Answer:** No
- Does he know of spills or other chemical releases that have taken place at the property? **Answer:** No
- Does he know of any environmental cleanups that have taken place at the property? **Answer:** No
- Does he know if any fill materials have been imported to the Site? **Answer:** No
- Does he know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? **Answer:** No
- Does he know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? **Answer:** No
- Does he 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. Robert Hare was asked the following question as part of the assessment:

- Based on his 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:** Unknown

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 Genesee County Assessor's Office, the Site is owned by General Motors Corporation, which has changed its name to Motors Liquidation Company. The Site is presently managed by Motors Liquidation Company.

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

The Client provided ARCADIS with following previous environmental reports for the Site:

- "Level I and Level II Environmental Site Assessments" prepared by GZA GeoEnvironmental Inc. dated May 21, 1992 and revised October 26, 1992. The areas of concern included one 10,000-gallon diesel fuel underground storage tank (UST), stained soils adjacent to the diesel fuel UST and storm sewer catch basin ST-10, storm sewer lines, stained soils at the southeastern end of south parking area, and miscellaneous drums at the central portion of south parking area. These areas were addressed during the removal of the UST and associated excavations (see below). Additionally, according to the report, the Site had previously been owned by the City of Flint and was sold to the Wilmington Trust Company in 1985. Prior to that time, the Site was part of a residential neighborhood that was developed into an industrial park by the City of Flint.

- “Leaking Underground Storage Tank (LUST) Closure Report” by CRA dated December 18, 2003. The report documented the following remedial actions that took place at the Site:
 - o Approximately 2,657 gallons of diesel product were removed from the Site.
 - o Approximately 1,922 cubic yards of affected soil were removed from the Site.
 - o Approximately 125,731 gallons of groundwater were remediated at the Site.

The report recommended a “Class 4” site classification under the Michigan Department of Environmental Quality (MDEQ). The classification is based on the fact that no long-term threat to human, health, safety, or sensitive environmental receptors exist at the Site. According to the report, all environmental impacts from the UST were delineated and removed. According to the MDEQ Storage Tank Information Database, the LUST was considered closed as of December 18, 2003.

4.1.2 Historic Map Review

ARCADIS reviewed Sanborn Fire Insurance (Sanborn) maps provided by EDR for the years 1928, 1950, and 1967. The maps only show the northern portion of the Site and the northerly and westerly adjoining properties.

The 1928 Sanborn map depicts the northern portion of the Site as occupied by a mixture of mostly vacant and residential properties. The northwest corner is occupied by a commercial structure. Adjacent to the north and west of the Site are mostly residential and vacant properties.

The 1950 Sanborn map is similar to the 1928 map; however there are fewer residential structures on the far north side.

The 1967 Sanborn map is similar to the 1950 map; however there are fewer residential structures on the far north side.

Copies of the Sanborn maps are included in Appendix B.

4.1.3 Aerial Photograph Review

ARCADIS reviewed historical aerial photographs provided by EDR for the years 1937, 1941, 1950, 1964, 1972, 1982, 1992, 1997, and 2005.

The 1937, 1941, and 1950 aerial photographs show the Site as a mixture of residential and vacant properties. Surrounding the Site to the north, south and west are a mixture of residential and vacant properties. Adjacent to the east of the Site is the Flint River and undeveloped land.

The 1964 and 1972 aerial photographs depict the Site and surrounding properties as similar to the 1937, 1941, and 1950 aerial photographs. However, there is more commercial development to the northeast and northwest of the Site.

The 1982 aerial photograph appears to show the Site as vacant. A mixture of vacant and commercial properties surrounds the Site.

The 1992, 1997, and 2005 aerial photographs depict the Site and surrounding properties as observed by ARCADIS during the site visit.

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 for the years 1912 through 2009 in approximately five-year intervals, as available. The Site address was not listed in any of the city directories. Additionally, there are no listings for any addresses on James Cole Boulevard.

The EDR report also presents listings for northerly adjacent addresses on Stewart Avenue. The listings include both residential and commercial properties. No environmentally significant listings were found in the immediate area of the Site.

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 1922, 1969, and 1975.

The topographic maps show the Site and surrounding areas to be in a developed area. There are no buildings depicted on the Site.

The EDR Topographic Map report is included in Appendix B.

4.1.6 Building/Planning Departments

ARCADIS contacted the Flint Building and Planning Departments to review available records on file for the Site. At the time of this report, a response has not been received.

4.1.7 Additional Record Sources

Environmental reports provided by the Client were summarized in Section 4.1.1. No other additional record sources were reviewed in the course of this assessment.

4.1.8 Summary of Historical Information

The Site has been occupied by residential and vacant properties from at least 1922 until at least 1972. In 1982 the Site was vacant. From at least 1992 until the present the Site has been occupied by a commercial/industrial building. The Site is currently vacant.

4.2 Historical Use Information on Adjoining Properties

A review of available historical information indicates that the adjoining properties have been occupied by a mixture of residential and vacant properties from at least 1922 until at least 1950. From at least 1964 until at least 1972 the Site was surrounded by a mixture of residential, commercial and vacant properties. From at least 1982 to the present the surrounding properties have been commercial.

4.3 Physical Setting

4.3.1 Geology

4.3.1.1 Surface Features

According to topographic information (Flint North USGS Quadrangle Map), the Site elevation is approximately 750 feet. Topographically, the Site and surrounding area is relatively flat with a slope to the east/southeast by the Flint River

4.3.1.2 Subsurface Features

According to the EDR report, the subsurface soil at the Site consists of Urban Soil and Miscellaneous land that has not been mapped. Urban Soils have been disturbed by manmade activities that the original characteristics of the soil are no longer retained.

4.3.2 Hydrology

4.3.2.1 Surface Water

There was no surface water visible at the Site or surrounding properties. Surface water flow in the area is largely controlled by artificial structures along roadways and in paved areas. The regional flow is anticipated to be to the east/southeast, towards the Flint River, which is located approximately 300 feet east of the Site.

4.3.2.2 Groundwater

Groundwater flow is anticipated to be to the east/southeast, towards the Flint River.

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	Site	Adjacent	0 – 1/8 mile	1/8 – ¼ mile	¼ - ½ mile	½ - 1 mile
NPL	1 mile	No	0	0	0	0	0
Delisted NPL	1 mile	No	0	0	0	0	0
CERCLIS	0.50 mile	No	0	0	0	1	-
CERCLIS-NFRAP	0.50 mile	No	0	0	0	0	-
RCRA CORRACTS	1 mile	No	0	0	0	0	0
RCRA TSD	0.50 mile	No	0	0	0	0	-
RCRA Generators	Site & adjacent	No	0	-	-	-	-
ERNS Site	Site	Yes	-	-	-	-	-
US IC/EC Registries	Site	No	-	-	-	-	-
SHWS	1 mile	No	0	0	1	0	2
State & Tribal SWF/LF	0.50 mile	No	0	0	0	0	-
State & Tribal LUST	0.50 mile	Yes	1	0	1	0	-
State & Tribal USTs	Site & adjacent	Yes	1	-	-	-	-
State ASTs	Site & adjacent	No	0	-	-	-	-
State IC/ EC Registry	Site	No	-	-	-	-	-
State Brownfields	0.50 mile	No	0	0	0	0	-
Indian VCP	0.50 mile	No	0	0	0	0	-
BEA	0.50 mile	No	1	1	0	0	-
Spills	Site	No	-	-	-	-	-
Drycleaners	0.25 mile	No	0	0	0	-	-
DOT OPS	Site	Yes	-	-	-	-	-

4.4.1 Site

The subject Site was identified on the ERNS, LUST, UST, BEA and DOT OPS databases searched by EDR.

4.4.2 Federal Environmental Record Sources

EDR did not identify facilities within the applicable radius for the Federal databases searched, except for the following:

CERCLIS

EDR identified one CERCLIS facility within 0.5 mile of the Site.

Flint Industries Plating at 1109 East Stewart Street is located approximately 2,200 feet to the west and is expected to be hydraulically up- to crossgradient of the Site. The property was discovered in 1987, was listed as No Further Remedial Action Planned in 1988, and had a cleanup in 2005. Based on its regulatory status and distance from the Site, this facility does not appear to represent an environmental concern to the Site at this time.

ERNS

EDR identified an ERNS incident at the Site.

4002 James P. Cole at 4002 James P. Cole Boulevard is located at the Site. A diesel fuel release was reported in 1989. According to the LUST database, the release is considered “Closed”. Based on the status, this listing does not appear to represent an environmental concern.

State Hazardous Waste Sites (SHWS)

EDR identified three SHWS facilities within one mile of the Site. Two of the facilities are located more than one half mile from the Site, while one facility is located less than a quarter mile from the Site:

Lockhart Chemical Company at 4302 James P. Cole Boulevard is located approximately 1,130 feet to the north and is expected to be hydraulically crossgradient of the Site. The database listing is currently classified as “Interim Response in Progress”. Based on its distance, this facility does not appear to represent an environmental concern to the Site at this time.

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 did not identify facilities within the applicable radii for the State and Tribal databases searched, except for the following:

Leaking Underground Storage Tank (LUST) Sites

EDR identified one LUST incident at the Site and two LUST sites within 0.50-miles of the subject Site:

Allen Storage Facility at 4002 James Cole Boulevard is located at the subject Site. According to the EDR report, a diesel fuel release was reported at this facility on October 3, 1989 and on June 6, 1995. The database listing is currently classified as “Closed.” This listing is deemed an historical REC; however, based on the status of the facility and the identification of a responsible party for the release, this listing for the Site does not appear to represent an environmental concern.

Universal Systems at 1401 East Stewart Avenue is located adjacent to the north of the Site. According to the EDR report, a gasoline release was reported at this facility on April 21, 2003. The database listing is currently classified as “Closed.” Based on the status of the facility and the identification of a responsible party for the release, this facility does not appear to represent an environmental concern to the Site at this time.

Prince Singh LLC at 4111 North Dort Highway is located approximately 1,260 feet east and hydraulically downgradient of the Site. According to the EDR report, an unknown release was reported at this facility on October 1, 1998. The database listing is currently classified as “Open.” Based on its distance and inferred downgradient direction, this facility does not appear to represent an environmental concern to the Site at this time.

Underground Storage Tank (UST) Sites

EDR identified the Site and one adjoining property on the UST database:

Allen Storage Facility at 4002 James Cole Boulevard is located at the Site. According to the EDR report, one 10,000-gallon capacity diesel UST was installed at the facility in 1985. The database reports that the UST was removed in 2002. Based on the closed status, this listing does not appear to represent an environmental concern to the Site.

Universal Systems at 1401 East Stewart Avenue is located adjacent to the north of the Site. According to the EDR report, one 3,000-gallon gasoline UST was installed at the facility in 1981. The database reports that the UST was removed in 2003. Based on the closed status, this facility does not appear to represent an environmental concern to the Site at this time.

Baseline Environmental Assessments

EDR identified 2 BEA facilities within 0.5 mile of the Site:

4221 James P. Cole Boulevard at 4221 James P. Cole Boulevard is located approximately 560 feet to the northwest and is expected to be hydraulically up to crossgradient of the Site. According to the EDR report, there are no hazardous substances at the facility. Based on the regulatory status, this facility does not appear to represent an environmental concern to the Site at this time.

Lockhart Chemical Company at 4302 James P. Cole Boulevard is located approximately 1,130 feet to the north and is expected to be hydraulically crossgradient of the Site. According to the EDR report, there are no hazardous substances at the facility. Based on the regulatory status, distance from the Site, and the identification of a responsible party, this facility does not appear to represent an environmental concern to the Site at this time.

Department of Transportation Office of Pipeline Safety (DOT OPS)

EDR identified the Site on the DOT OPS database:

Consumers Energy at 4002 James P. Cole Boulevard is located at the Site. According to the EDR report, an underground carbon dioxide leak occurred in 2007, which sparked an explosion. The leak was reported to have been caused by a rupture in the piping. However, the leak did not affect soil or groundwater, and therefore the incident does not appear to represent an environmental concern to the Site at this time.

A compilation of the 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. The 25 facilities listed in the Orphan summary do not appear to be located within the Approximate Minimum Search Distance for the above-referenced Federal and State regulatory databases, except for the following BEA facility:

SE Corner of Stewart Avenue James P. Cole Boulevard at SE corner of Stewart Avenue and James P. Cole Boulevard is located at the Site. According to the EDR report, there are no hazardous substances at the facility. Based on the regulatory status, this facility does not appear to represent an environmental concern to the Site at this time.

4.5 Additional Environmental Records Sources

4.5.1 Fire Department

ARCADIS contacted the City of Flint Fire Department regarding ASTs, USTs or the storage or release of oil and/or hazardous material (OHM). At the time of this report, a response has not been received.

4.5.2 Health Department

ARCADIS contacted the Genesee County Health Department and no records were available for the Site.

4.5.3 Michigan Department of Environmental Quality

ARCADIS contacted the Michigan Department of Environmental Quality (MDEQ), which did not identify records on file for the Site pertaining to ASTs, USTs or the storage or release of OHM.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Ms. Andrea Rayner of ARCADIS visited the Site on December 16, 2009. Mr. Sam Solomon, the facility manager was present. The weather at the time of ARCADIS' investigation was cool and sunny, with a temperature of approximately 15 degrees Fahrenheit. ARCADIS inspected the entire Site. Photographs are included in Appendix D.

5.2 Current Site Use

The Site is currently vacant and is occupied by a warehouse on the north side, a boiler house on the south side, and asphalt parking areas surrounding the buildings. There are no operations occurring at the Site.

5.3 Site Observations

5.3.1 Underground Storage Tanks (USTs)

ARCADIS did not observe fill pipes, vent pipes or other evidence of USTs on the Site.

5.3.2 Aboveground Storage Tanks (ASTs)

ARCADIS did not observe evidence of ASTs at the Site.

5.3.3 Hazardous Substance and Petroleum Use

ARCADIS did not observe hazardous substances or petroleum products being used or stored at the Site.

5.3.4 Unlabeled Drums/Containers

ARCADIS did not observe unlabeled drums or containers at the Site.

5.3.5 Stained Soil or Pavement

ARCADIS did not observe stained soil or pavement at the Site.

5.3.6 Stains or Corrosion

ARCADIS did not observe stains or corrosion at the Site.

5.3.7 Stressed Vegetation

ARCADIS did not observe evidence of stressed vegetation at the Site.

5.3.8 Polychlorinated Biphenyls (PCBs)

ARCADIS observed four transformer units located near the southwest corner of the building that contained labels stating they are non-PCB containing. ARCADIS did not observe any other electrical or hydraulic equipment at the Site suspected to contain PCBs.

5.3.9 Solid Waste/Dumping

ARCADIS did not observe evidence of solid waste or dumping at the Site.

5.3.10 Site Drainage

Surface water on the Site is directed to the south along the adjacent roadways. ARCADIS did not observe standing water or catch basins at the Site.

5.3.11 Pits, Ponds, Lagoons and Pools of Liquid

ARCADIS did not observe pits, ponds, lagoons or pools of liquid on the Site.

5.3.12 Wastewater

ARCADIS did not observe processes at the Site that generated wastewater.

5.3.13 Wells

ARCADIS did not observe monitoring wells, dry wells, irrigation wells, injection wells, or abandoned wells at the Site.

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 interviewed Mr. Sam Solomon, Property Manager, and Mr. Ken Richards, Remediation Project Manager at the time of the assessment. Information provided by these individuals is presented throughout the report.

6.2 Site Occupants

The Site is currently vacant and is occupied by a warehouse on the north side, a boiler house on the south side, and asphalt parking areas surrounding the buildings.

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

No additional interviews were conducted as part of this assessment.

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 did not identify any known or suspect environmental concerns.

7.2 Historical Recognized Environmental Conditions

No historical RECs were identified in the course of this investigation.

7.3 De Minimis Conditions

ARCADIS did not identify any *de minimis* environmental conditions at the Site.

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 4002 James Cole Boulevard, Flint, Genesee County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report. This assessment has revealed no evidence of RECs in connection with the Site.

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 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

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.



Douglas M. Lindsay, PG, LSP
Senior Geologist



for:

Morgan L. Vogt
Senior Staff Geologist

12.0 REFERENCES

City of Flint

- Fire Department
- Building Department

Genesee County

- Health Department
- Assessor's Office

State of Michigan

- Michigan Department of Environmental Quality

2. Reports, Plans and Other Documents Reviewed:

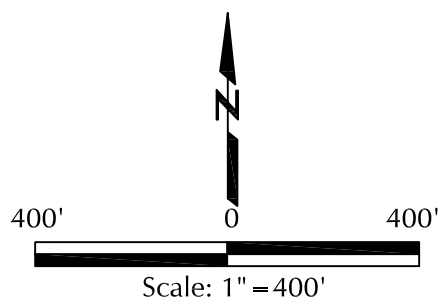
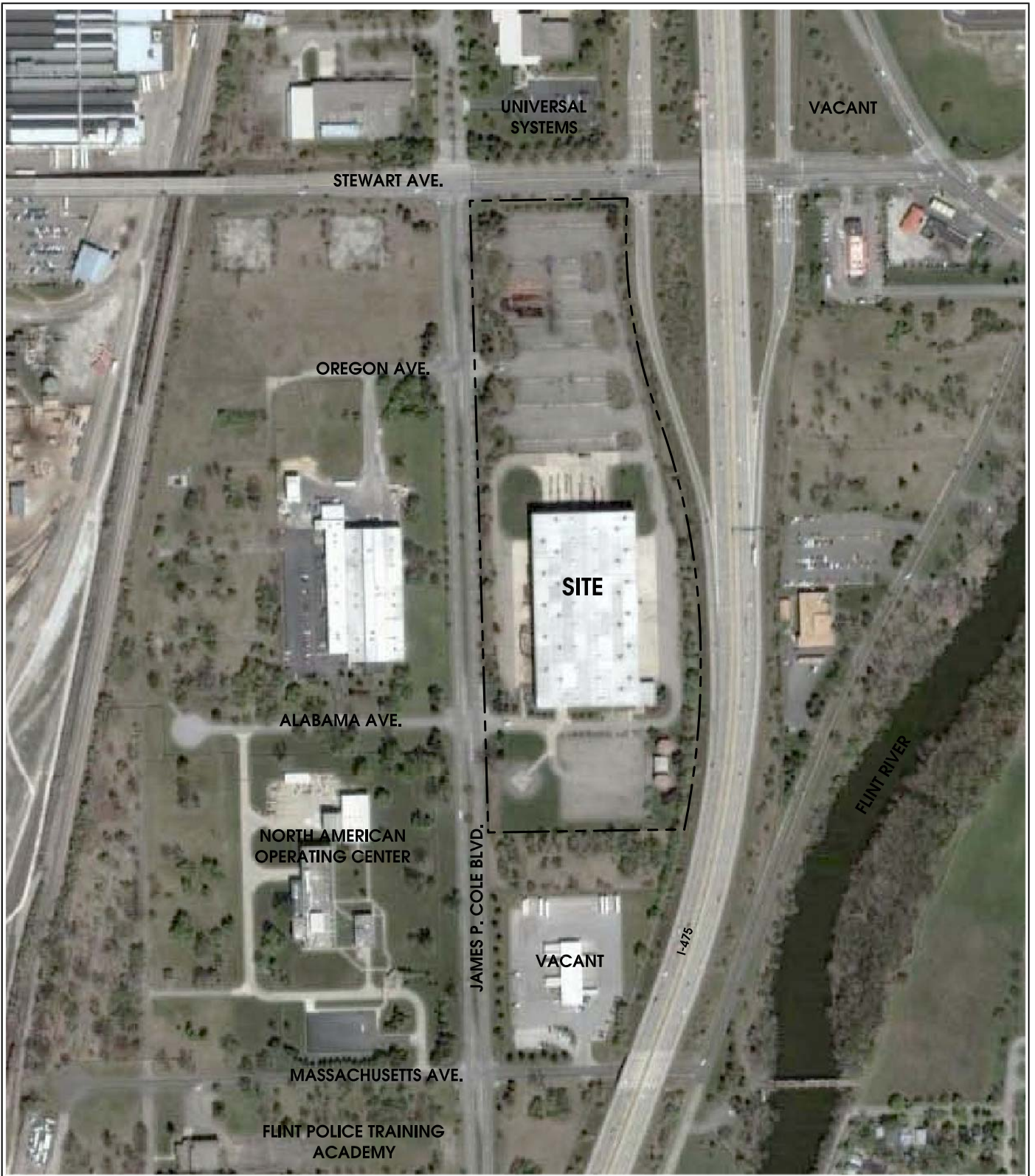
EDR:

- *The EDR Aerial Photo Decade Package*, Inquiry Number 2616104.5, October 20, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Radius Map with GeoCheck*, Inquiry Number 2616104.2s, October 16, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Sanborn Map Report*, Inquiry Number 2616104.3, October 16, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Topographic Map Report*, Inquiry Number 2616104.4, October 16, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR City Directory Abstract*, Inquiry Number 2616104.6, October 21, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.

Genesee County

- Assessor's Map
- Property Card
- Tax Parcel ID
- Ownership Data

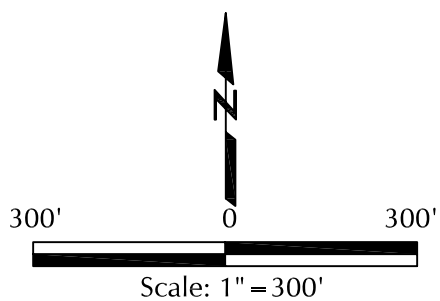
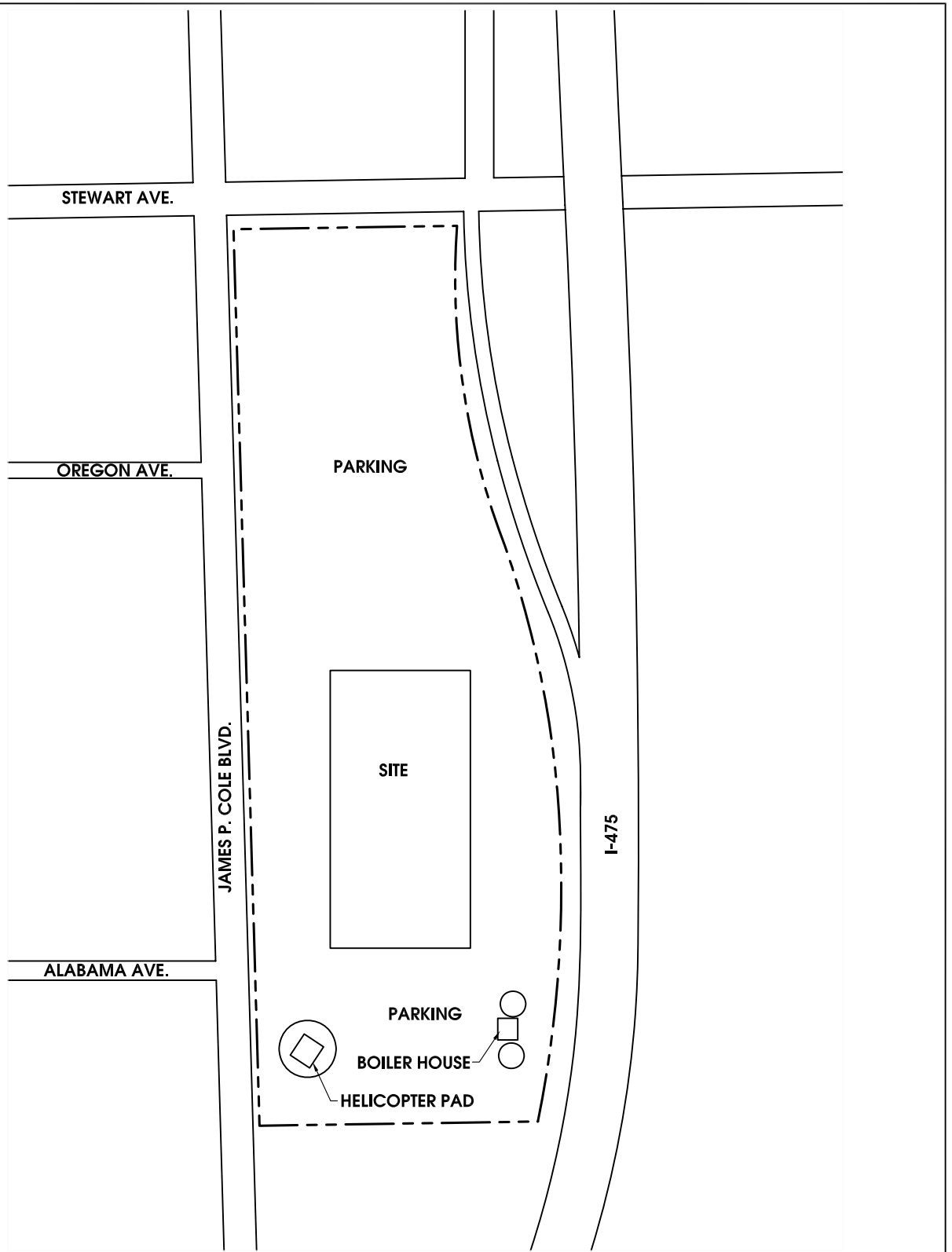
FIGURES



Site Vicinity Map

4002 James Cole Blvd.
Flint, Michigan

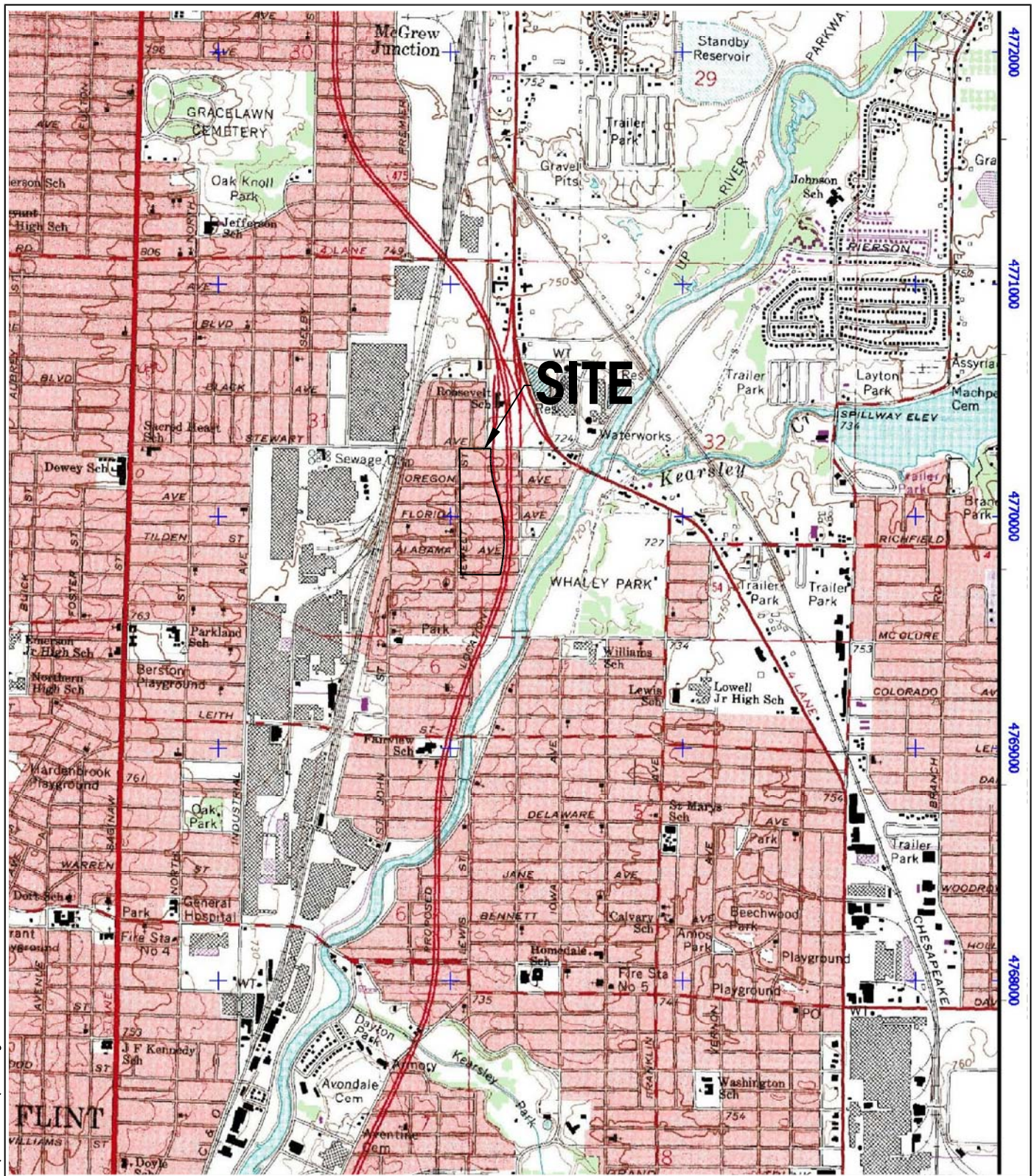
Figure 1



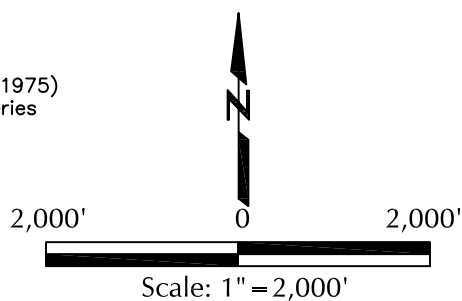
Site Plan

4002 James Cole Blvd.
Flint, Michigan

Figure 2



Source:
Flint North, Illinois (1975)
USGS 7.5 Minute Series
Quadrangle Map



Topo Map

4002 James Cole Blvd.
Flint, Michigan

Figure 3

APPENDIX A

User Questionnaire



ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

Phase I Environmental Site Assessment Questionnaire

(User Provided Information Questionnaire)

Date: January 25, 2010 _____
Site Name: Flint Flow Through Warehouse _____ Your Name: Robert W. Hare _____
Site Location: Flint, MI _____ Your Title: Proj. Mgr. _____
Relationship to Site: ☒ Owner ☐ Occupant ☐ Purchaser ☐ Other
Length of Time Associated with Site: 30 days _____

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. 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: _____

2. 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: _____



3. 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: Familiar with the Buick City and Flint North sites _____

4. 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?

☐ Yes ☒ No ☐ Unknown ☐ N/A

If Yes, please explain: _____

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

☐ Yes ☒ No ☐ Unknown ☐ N/A

If Yes, please explain: _____

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

☐ Yes ☒ No ☐ Unknown ☐ N/A

If Yes, please explain: _____

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

☐ Yes ☒ No ☐ Unknown ☐ N/A

If Yes, please explain: _____



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

☐ Yes X No ☐ Unknown ☐ N/A

If Yes, please explain: _____

6. 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 X No ☐ Unknown ☐ N/A

If Yes, please explain: _____

7. 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 X No ☐ Unknown ☐ N/A

If Yes, please explain: _____

8. 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 X Unknown ☐ N/A

If Yes, please explain: _____



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

☐ Yes

☐ No

☒ 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

☐ Unknown

☒ N/A

If Yes, please explain: _____

APPENDIX B

Historical Research Documentation

Aerial Photographs

MLC - Flint Flowthrough

4002 James Cole Blvd

Flint, MI 48505

Inquiry Number: 2616104.5

October 20, 2009

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 October 20, 2009

Target Property:

4002 James Cole Blvd

Flint, MI 48505

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1937	Aerial Photograph. Scale: 1"=500'	Flight Year: 1937 Best Copy Available from original source	AAA
1941	Aerial Photograph. Scale: 1"=500'	Flight Year: 1941	AAA
1950	Aerial Photograph. Scale: 1"=500'	Flight Year: 1950	PMA
1964	Aerial Photograph. Scale: 1"=500'	Flight Year: 1964	ASCS
1972	Aerial Photograph. Scale: 1"=600'	Flight Year: 1972	ASCS
1982	Aerial Photograph. Scale: 1"=600'	Flight Year: 1982	ASCS
1992	Aerial Photograph. Scale: unknown	Flight Year: 1992	FSA
1997	Aerial Photograph. Scale: unknown	Flight Year: 1997	FSA
2005	Aerial Photograph. 1" = 604'	Flight Year: 2005	EDR



INQUIRY #: 2616104.5

YEAR: 1937

— = 500'





INQUIRY #: 2616104.5

YEAR: 1941

1" = 500'





INQUIRY #: 2616104.5

YEAR: 1950

— = 500'





INQUIRY #: 2616104.5

YEAR: 1964

| = 500'





INQUIRY #: 2616104.5

YEAR: 1972

| = 600'



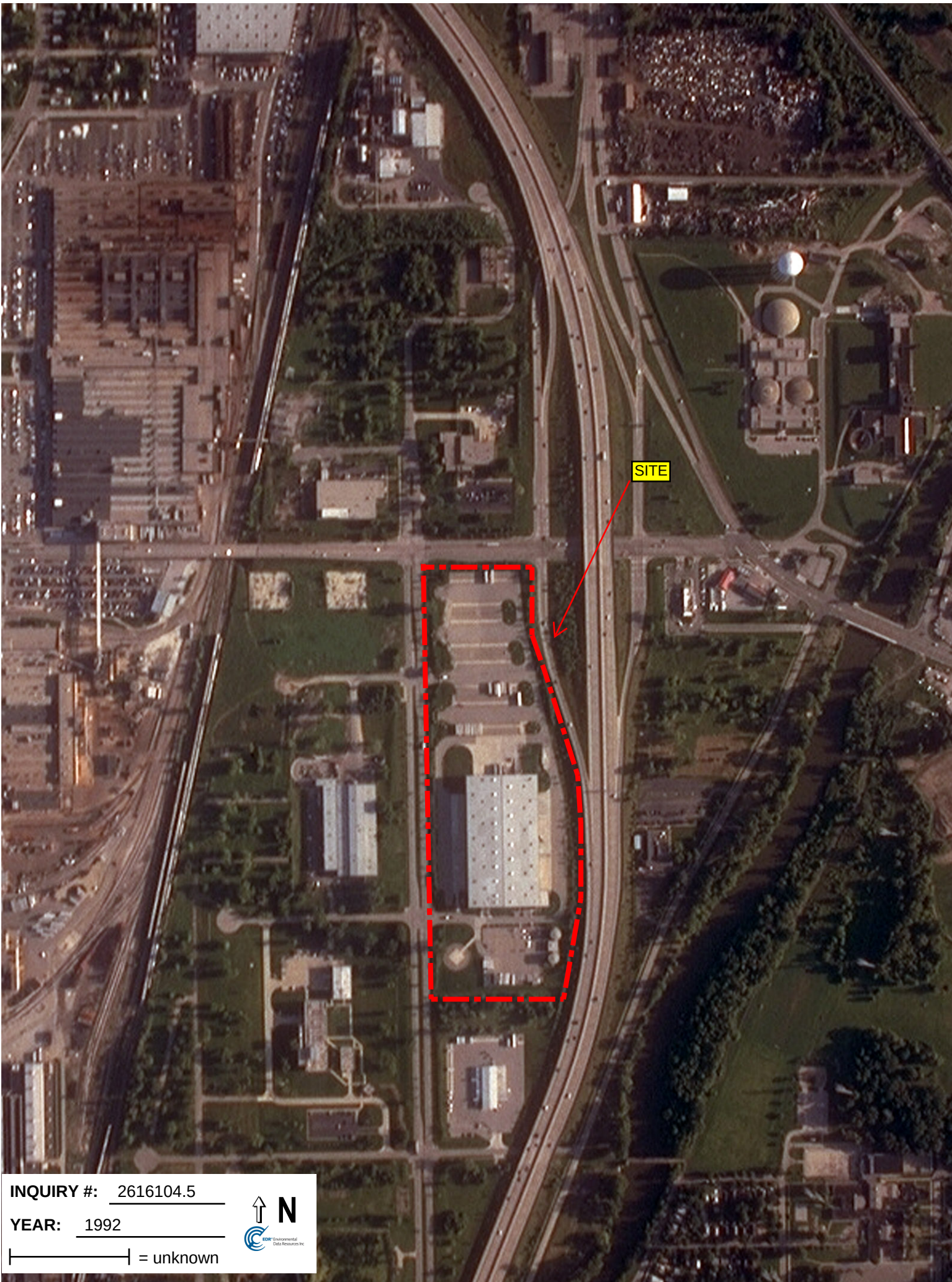


INQUIRY #: 2616104.5

YEAR: 1982

| = 600'





INQUIRY #: 2616104.5

YEAR: 1992

| = unknown





INQUIRY #: 2616104.5

YEAR: 1997

— = unknown





INQUIRY #: 2616104.5

YEAR: 2005

— = 604'



Sanborn Maps

MLC - Flint Flowthrough

4002 James Cole Blvd

Flint, MI 48505

Inquiry Number: 2616104.3

October 16, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

10/16/09

Site Name:

MLC - Flint Flowthrough
4002 James Cole Blvd
Flint, MI 48505

Client Name:

LFR Inc
630 Tollgate Road
Elgin, IL 60123

EDR Inquiry # 2616104.3

Contact: Morgan Vogt



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: MLC - Flint Flowthrough
Address: 4002 James Cole Blvd
City, State, Zip: Flint, MI 48505
Cross Street:
P.O. # NA
Project: 010-15218-00
Certification # C731-4B7B-AA85



Sanborn® Library search results
Certification # C731-4B7B-AA85

Maps Provided:

1967
1950
1928

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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Certified Sanborn® Map Report Enhancements for 2009

The accompanying Certified Sanborn Map Report reflects a number of enhancements that make it easier for you to review these historical maps. EDR has digitally joined together the more than one million fire insurance maps from the Sanborn Library collection so that your target property is centered, making it easier for you to review adjoining properties. Here is a list of the new features:

- Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.
- All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.
- We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.
- A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1967 Source Sheets



Volume 3, Sheet 353



Volume 3, Sheet 354



Volume 3, Sheet 362

1950 Source Sheets



Volume 3, Sheet 353



Volume 3, Sheet 362



Volume 3, Sheet 354

1928 Source Sheets



Volume 3, Sheet 353

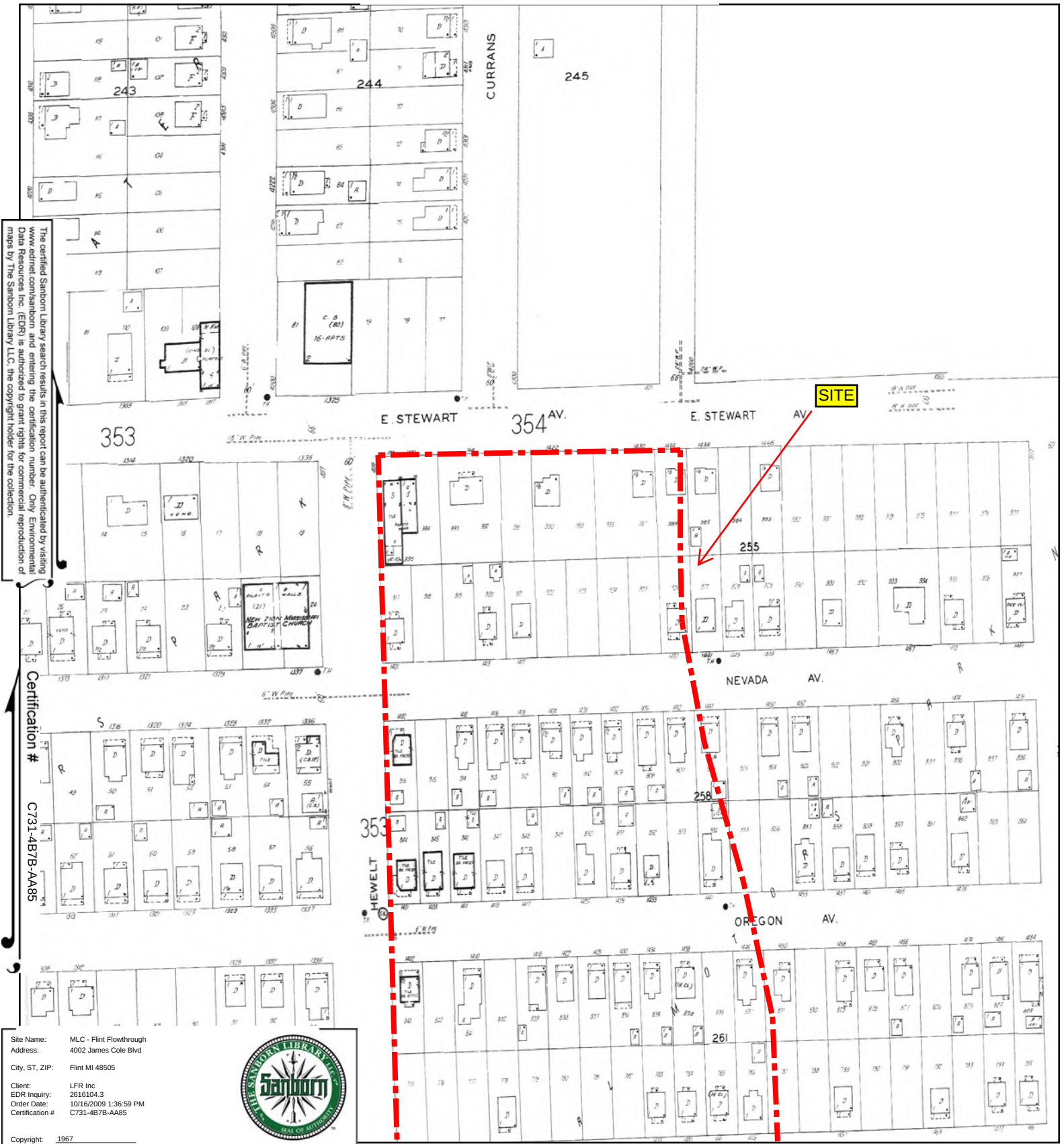


Volume 3, Sheet 354

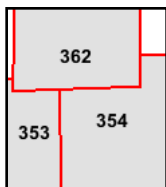
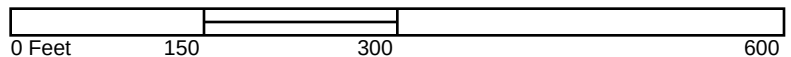


Volume 3, Sheet 362

1967 Certified Sanborn Map



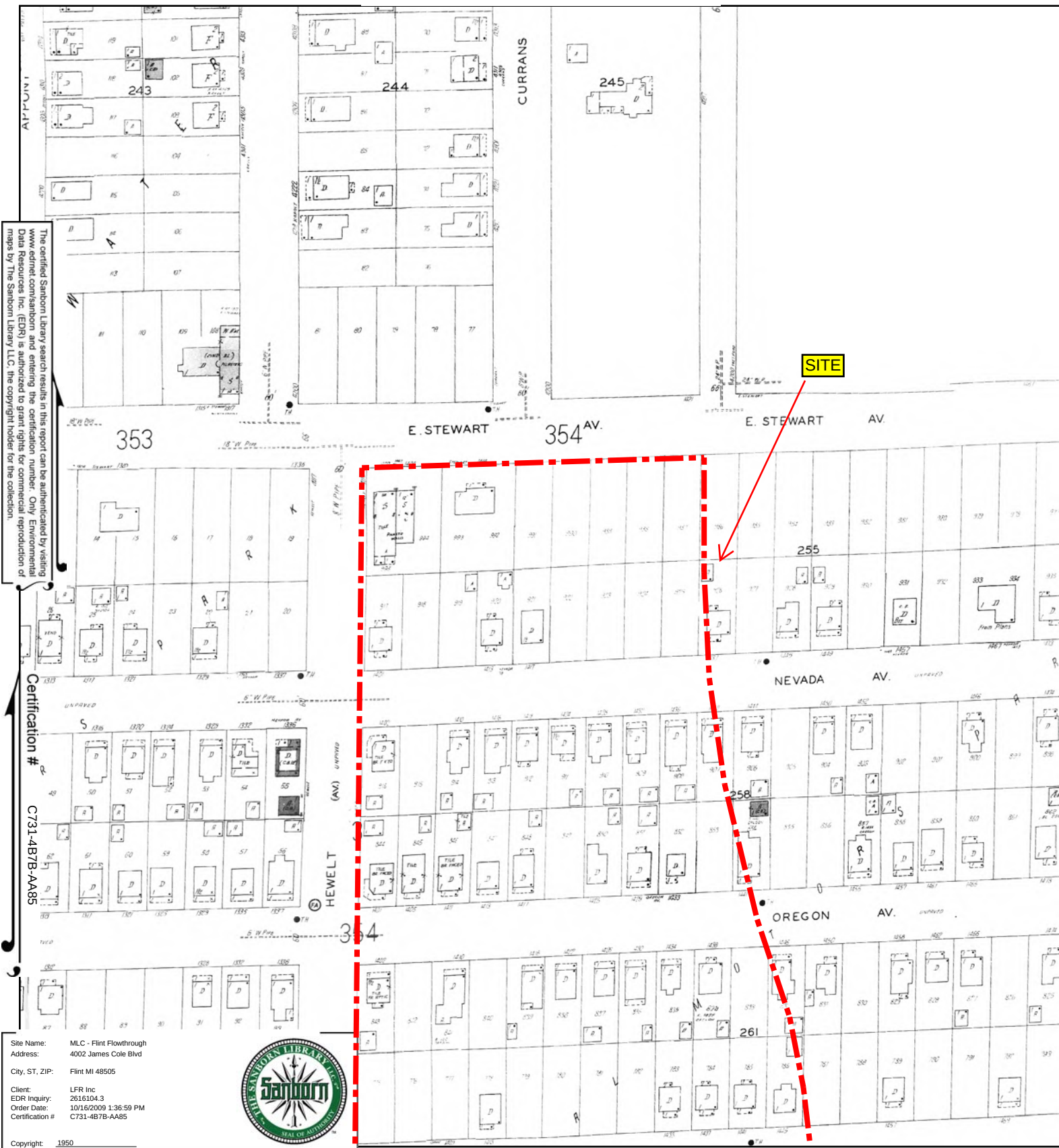
This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



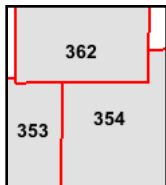
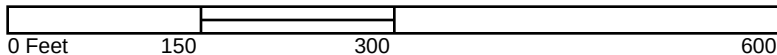
Volume 3, Sheet 353
Volume 3, Sheet 354
Volume 3, Sheet 362



1950 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



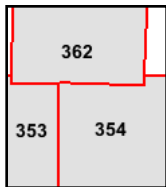
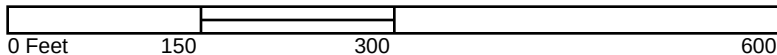
Volume 3, Sheet 353
Volume 3, Sheet 362
Volume 3, Sheet 354



1928 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 3, Sheet 353
Volume 3, Sheet 354
Volume 3, Sheet 362



City Directory Abstract

MLC - Flint Flowthrough

4002 James Cole Blvd
Flint, MI 48505

Inquiry Number: 2616104.6
October 21, 2009

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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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	Polk's City Directory	-	X	X	-
2004	Polk's City Directory	-	X	X	-
2000	Polk's City Directory	-	X	X	-
1995	Polk's City Directory	-	X	X	-
1988	Polk's City Directory	-	X	X	-
1983	Polk's City Directory	-	X	X	-
1978	Polk's City Directory	-	X	X	-
1973	Polk's City Directory	-	X	X	-
1968	Polk's City Directory	-	X	X	-
1963	Polk's City Directory	-	X	X	-
1958	Polk's City Directory	-	X	X	-
1954	Polk's City Directory	-	X	X	-
1949	Polk's City Directory	-	-	-	-
1945	Polk's City Directory	-	-	-	-
1941	Polk's City Directory	-	-	-	-
1936	Polk's City Directory	-	-	-	-
1931	Polk's City Directory	-	-	-	-
1926	Polk's City Directory	-	-	-	-
1921	Polk's City Directory	-	-	-	-
1916	Polk's City Directory	-	-	-	-
1912	Polk's City Directory	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

4002 James Cole Blvd
Flint, MI 48505

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

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

E. Stewart Ave.

1351 E. Stewart Ave.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	Stewart Green Apartments	Polk's City Directory
1968	Stewart Green Apartments	Polk's City Directory
1963	Stewart Avenue Apartments	Polk's City Directory

1401 E. Stewart Ave.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Antioch Missionary Baptist Church	Polk's City Directory
2004	Universal Systems (electric contrs.)	Polk's City Directory
2000	Residential	Polk's City Directory
1995	Universal Systems (elec. contrs.)	Polk's City Directory
1988	Universal Systems (elec. contrs.)	Polk's City Directory
1983	Universal Electrical Constn. Co. (elec. contrs.)	Polk's City Directory
1958	Stewart Avenue Apartments	Polk's City Directory

James Cole Blvd

James Cole Blvd

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	-No Addresses Listed 3700-4100 Block James Cole Blvd.	Polk's City Directory
2004	-No Addresses Listed 3700-4100 Block James Cole Blvd.	Polk's City Directory
2000	-No Addresses Listed 3700-4100 Block James Cole Blvd.	Polk's City Directory
1995	-No Addresses Listed Beyond 1500 Block James Cole Blvd.	Polk's City Directory
1988	-No Addresses Listed Beyond 1500 Block James Cole Blvd.	Polk's City Directory
1983	-No Addresses Listed Beyond 1300 Block James Cole Blvd.	Polk's City Directory
1978	-No Addresses Listed Beyond 1300 Block James Cole Blvd.	Polk's City Directory
1973	-No Addresses Listed Beyond 1400 Block James Cole Blvd.	Polk's City Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1968	-No Addresses Listed Beyond 1400 Block James Cole Blvd.	Polk's City Directory
1963	-No Addresses Listed Beyond 1500 Block James Cole Blvd.	Polk's City Directory
1958	-No Addresses Listed Beyond 1500 Block James Cole Blvd.	Polk's City Directory
1954	-No Addresses Listed 3700-4800 Block James Cole Blvd.	Polk's City 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

James Cole Blvd

Street Not Listed in Research Source

1949, 1945, 1941, 1936, 1931, 1926, 1921, 1916, 1912

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

4002 James Cole Blvd

Address Not Listed in Research Source

2009, 2004, 2000, 1995, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1954

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

1351 E. Stewart Ave.

1401 E. Stewart Ave.

Address Not Listed in Research Source

1958, 1954, 1949, 1945, 1941, 1936, 1931, 1926, 1921, 1916, 1912

1978, 1973, 1968, 1963, 1954, 1949, 1945, 1941, 1936, 1931, 1926, 1921, 1916, 1912

Topographic Maps

MLC - Flint Flowthrough

4002 James Cole Blvd

Flint, MI 48505

Inquiry Number: 2616104.4

October 16, 2009

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.

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

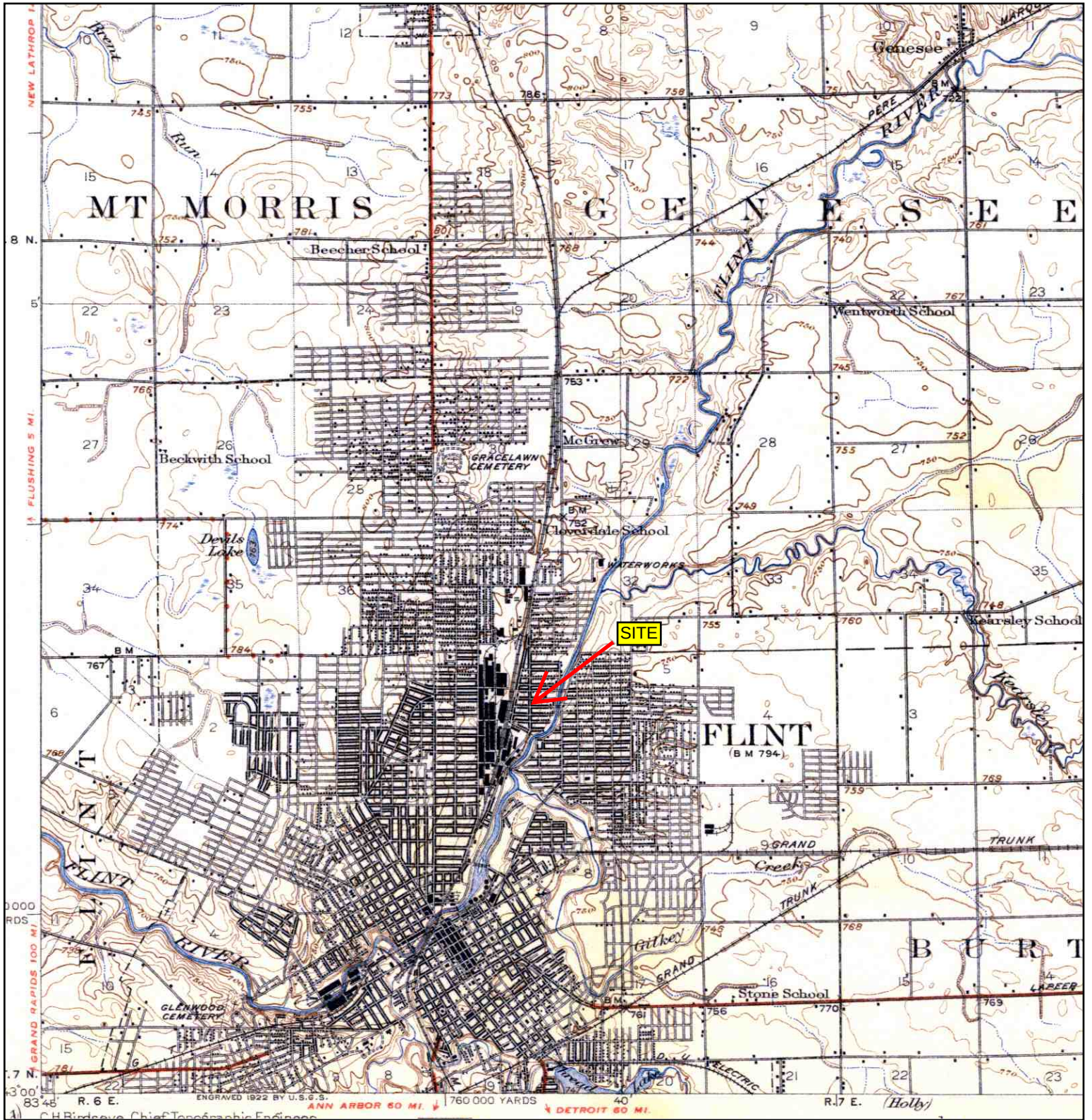
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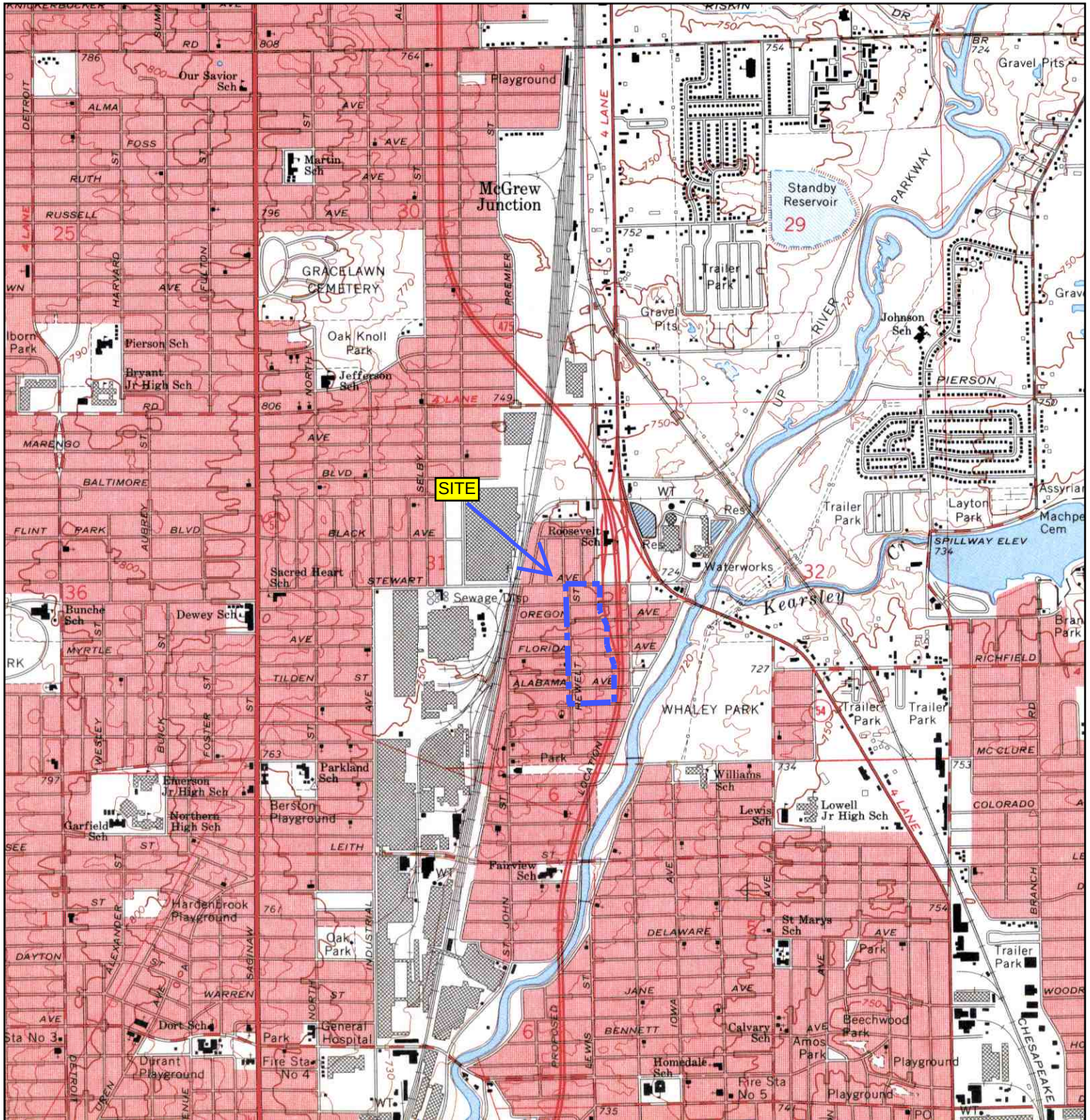
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Historical Topographic Map



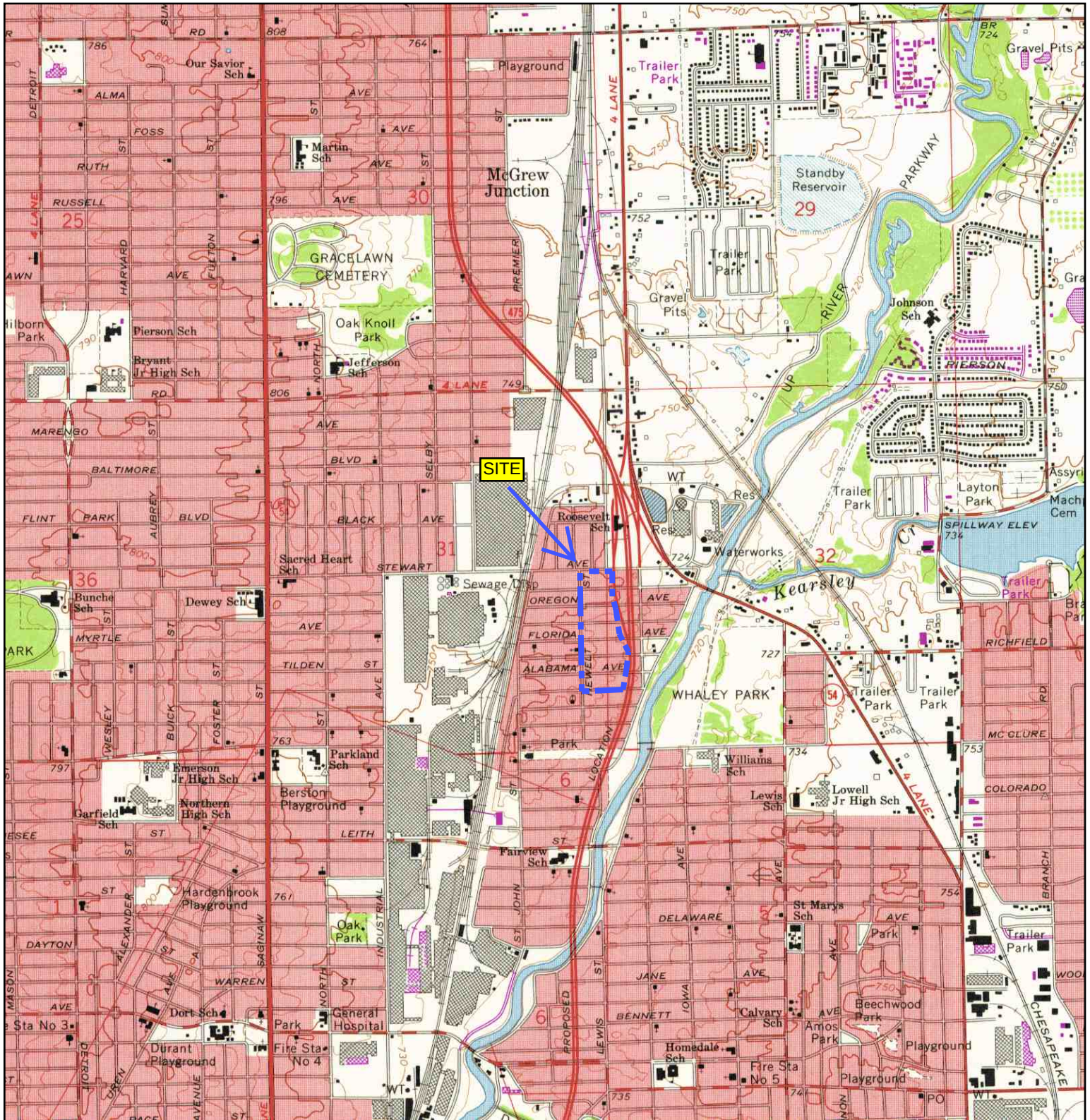
N ↑	TARGET QUAD	SITE NAME: MLC - Flint Flowthrough	CLIENT: LFR Inc
	NAME: FLINT	ADDRESS: 4002 James Cole Blvd	CONTACT: Morgan Vogt
	MAP YEAR: 1922	Flint, MI 48505	INQUIRY#: 2616104.4
		LAT/LONG: 43.0536 / 83.6757	RESEARCH DATE: 10/16/2009
	SERIES: 15		
	SCALE: 1:62500		

Historical Topographic Map



N ↑	TARGET QUAD NAME: FLINT NORTH MAP YEAR: 1969 SERIES: 7.5 SCALE: 1:24000	SITE NAME: MLC - Flint Flowthrough ADDRESS: 4002 James Cole Blvd Flint, MI 48505 LAT/LONG: 43.0536 / 83.6757	CLIENT: LFR Inc CONTACT: Morgan Vogt INQUIRY#: 2616104.4 RESEARCH DATE: 10/16/2009
----------------	---	---	---

Historical Topographic Map



TARGET QUAD
 NAME: FLINT NORTH
 MAP YEAR: 1975
 PHOTOREVISED FROM: 1969
 SERIES: 7.5
 SCALE: 1:24000

SITE NAME: MLC - Flint Flowthrough
 ADDRESS: 4002 James Cole Blvd
 Flint, MI 48505
 LAT/LONG: 43.0536 / 83.6757

CLIENT: LFR Inc
 CONTACT: Morgan Vogt
 INQUIRY#: 2616104.4
 RESEARCH DATE: 10/16/2009

APPENDIX C

EDR Radius Map Report

MLC - Flint Flowthrough

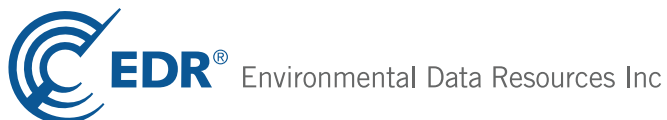
4002 James Cole Blvd

Flint, MI 48505

Inquiry Number: 2616104.2s

October 16, 2009

The EDR Radius Map™ Report with GeoCheck®



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

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	7
Orphan Summary	38
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-18

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

4002 JAMES COLE BLVD
FLINT, MI 48505

COORDINATES

Latitude (North): 43.053600 - 43° 3' 13.0"
Longitude (West): 83.675700 - 83° 40' 32.5"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 282086.1
UTM Y (Meters): 4770027.0
Elevation: 750 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 43083-A6 FLINT NORTH, MI
Most Recent Revision: 1975

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2006, 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
CONSUMERS ENERGY 4002 JAMES P COLE FLINT, MI 48505	DOT OPS	N/A
ALLEN STORAGE FACILITY 4002 JAMES P COLE BLVD FLINT, MI 48505	LUST Facility Status: Closed Facility Status: Closed UST	N/A
4002 JAMES P COLE 4002 JAMES P COLE FLINT, MI	ERNS	N/A

EXECUTIVE SUMMARY

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 NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Transporters, Storage and Disposal

Federal RCRA generators list

RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

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

AST..... Aboveground Tanks

EXECUTIVE SUMMARY

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

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
SPILLS..... Pollution Emergency Alerting System

Other Ascertainable Records

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
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

EXECUTIVE SUMMARY

SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Database
DRYCLEANERS.....	Drycleaning Establishments
NPDES.....	List of Active NPDES Permits
AIRS.....	Permit and Emissions Inventory Data
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH.....	Coal Ash Disposal Sites

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

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 list

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

A review of the CERCLIS list, as provided by EDR, and dated 06/30/2009 has revealed that there is 1 CERCLIS 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>
FLINT IND PLATING	1109 E STEWART ST	W 1/4 - 1/2 (0.417 mi.)	12	36

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-LQG site 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>
LOCKHART CHEMICAL CO	4302 JAMES P COLE BLVD	N 1/8 - 1/4 (0.214 mi.)	D10	24

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 08/11/2009 has revealed that there are 3 SHWS sites 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>
LOCKHART CHEMICAL COMPANY Facility Status: Interim Response in progress	4302 JAMES P. COLE BOUL	N 1/8 - 1/4 (0.214 mi.)	D9	23
2601-2603 RICHFIELD ROAD Facility Status: Inactive - no actions taken to address contamination	2601-2603 RICHFIELD ROA	ESE 1/2 - 1 (0.968 mi.)	14	37

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
(FRMR) ZACK CO/DEMO DUMP Facility Status: Inactive - no actions taken to address contamination	4401 WESTERN ROAD	E 1/2 - 1 (0.960 mi.)	13	37

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 09/01/2009 has revealed that there are 2 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>
UNIVERSAL SYSTEMS Facility Status: Closed	1401 E STEWART AVE	WNW 0 - 1/8 (0.054 mi.)	B5	16

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRINCE SINGH LLC Facility Status: Open	4111 N DORT HWY	E 1/8 - 1/4 (0.239 mi.)	11	34

EXECUTIVE SUMMARY

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 09/01/2009 has revealed that there are 2 UST 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>
UNIVERSAL SYSTEMS	1401 E STEWART AVE	WNW 0 - 1/8 (0.054 mi.)	B5	16
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRINCE SINGH LLC	4111 N DORT HWY	E 1/8 - 1/4 (0.239 mi.)	11	34

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 11/12/2008 has revealed that there are 3 RCRA-NonGen 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>
UNIVERSAL SYSTEMS	1401 E STEWART AVE	WNW 0 - 1/8 (0.054 mi.)	B4	14
FLINT COATINGS INC	4221 JAMES P COLE	NNW 0 - 1/8 (0.107 mi.)	C6	17
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MI DEPT/TRANSPORTATION	I-475 OVER STEWART	E 1/8 - 1/4 (0.150 mi.)	8	21

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 09/14/2009 has revealed that there are 2 BEA sites within approximately 0.5 miles of the target property.

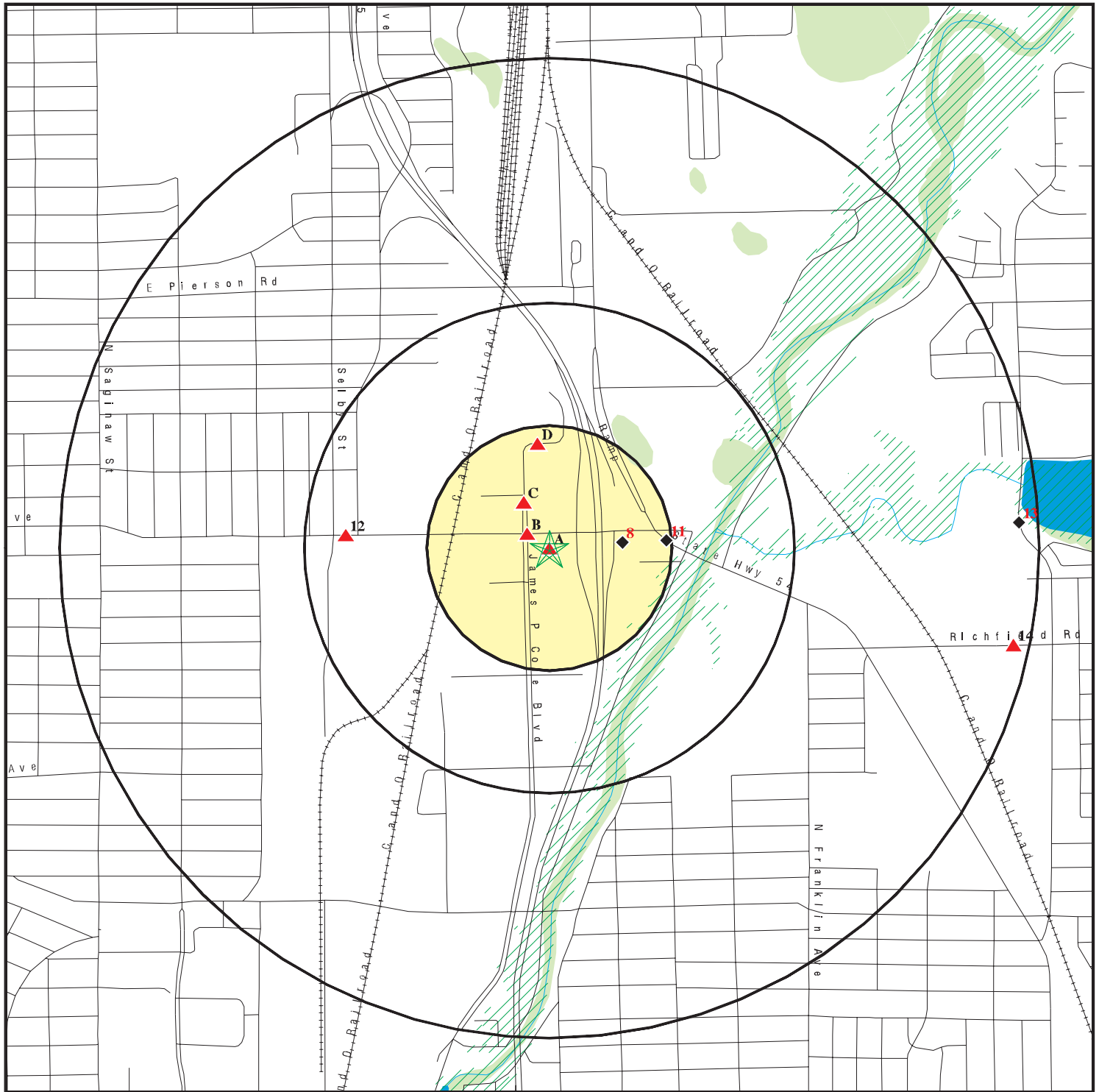
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
4221 JAMES P COLE BOULEVARD	4221 JAMES P COLE BOULE	NNW 0 - 1/8 (0.107 mi.)	C7	21
LOCKHART CHEMICAL COMPANY	4302 JAMES P. COLE BOUL	N 1/8 - 1/4 (0.214 mi.)	D9	23

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
FLINT WATER PLANT AND FACILITIES	FINDS, LUST, UST, FTTS, HIST
MARATHON ASHLAND FLINT TERMINAL	FTTS
RESOURCE RECOVERY OF FLINT INC	SHWS
E I DUPONT DUMP	SWF/LF
FORMER SUNOCO #0354/ A J MINI MART	HIST LF
LEEMON OIL CO INC	BROWNFIELDS
CITY OF FLINT	LUST, UST
JET AUTO REPAIR IC	RCRA-NonGen
MI DEPT/ENVIRONMENTAL QUALITY	RCRA-NonGen
NORTH CEN CO-OP TRUCKING	RCRA-NonGen
CSX	RCRA-NonGen
AIRGAS GREAT LAKES INC	RCRA-CESQG
1512 AND 1514 S. DORT HWY.	BEA
3701 AND 3751 S. DORT HIGHWAY	BEA
3701 AND 3751 S. DORT HWY	BEA
5130 AND 5122 NORTH DORT HIGHWAY	BEA
S.E. CORNER STEWART AVE. & JAMES P	BEA
0.619 ACRES NE CORNER OF N.DORT HW	BEA
2.7 ACRES NE CORNER N. DORT HWY/DA	BEA
G-5150 DORT HIGHWAY	BEA
5167 NORTH DORT HIGHWAY	BEA
PARCEL 07-32-102-001 & 07-32-102-0	BEA
G-5107 NORTH DORT HWY	BEA
G-5150 NORTH DORT HIGHWAY	BEA
RAILROAD RIGHT-OF-WAY (FORMER)	BEA

OVERVIEW MAP - 2616104.2s



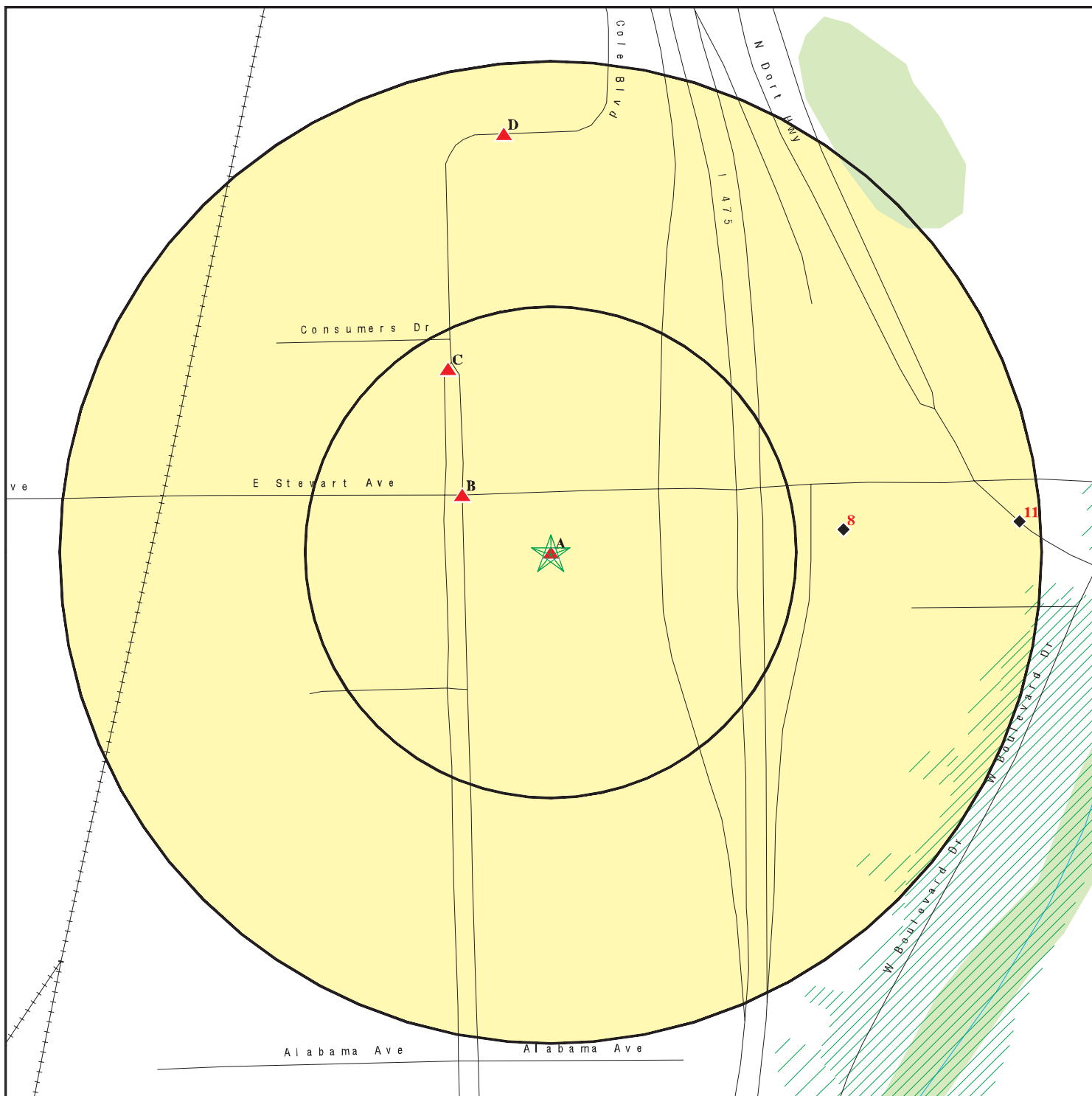
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- 🚒 National Priority List Sites
- 🏢 Dept. Defense Sites
- 🏠 Indian Reservations BIA
- 🛢 Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 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: MLC - Flint Flowthrough
 ADDRESS: 4002 James Cole Blvd
 Flint MI 48505
 LAT/LONG: 43.0536 / 83.6757

CLIENT: LFR Inc
 CONTACT: Morgan Vogt
 INQUIRY #: 2616104.2s
 DATE: October 16, 2009 12:51 pm

DETAIL MAP - 2616104.2s



- ★ 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

0 1/16 1/8 1/4 Miles



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SITE NAME: MLC - Flint Flowthrough
 ADDRESS: 4002 James Cole Blvd
 Flint MI 48505
 LAT/LONG: 43.0536 / 83.6757

CLIENT: LFR Inc
 CONTACT: Morgan Vogt
 INQUIRY #: 2616104.2s
 DATE: October 16, 2009 12:51 pm

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	1	NR	NR	1
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.000	0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG		0.250	0	1	NR	NR	NR	1
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<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	0	NR	NR	0
<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	1	0	2	NR	3
<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	1	1	0	NR	NR	2
INDIAN LUST		0.500	0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	X	0.250	1	1	NR	NR	NR	2
AST		0.250	0	0	NR	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
INDIAN UST		0.250	0	0	NR	NR	NR	0
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		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	2	1	NR	NR	NR	3
DOT OPS	X	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
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		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	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
ICIS		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	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
BEA		0.500	1	1	0	NR	NR	2
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	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
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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
CONSUMERS ENERGY
4002 JAMES P COLE
FLINT, MI 48505

DOT OPS **1010080834**
N/A

Site 1 of 3 in cluster A

Actual:
750 ft.

DOT OPS:
Report ID: 20070030
Facility name: CONSUMERS ENERGY
Address: 4002 JAMES P COLE
FLINT, MI 48505
Latitude: 43.0634
Longitude: -83.7001

EDR type: NATURAL GAS DISTRIBUTION
Incident year: 2007
Incident region: CENTRAL
Operator ID: 2748
Operator name: CONSUMERS ENERGY
Operator address: ONE ENERGY PLAZA
JACKSON, MI 49201

Operator county: JACKSON
Incident time: 1027
Incident date: 2/10/2007
Incident address: 4002 JAMES P COLE
FLINT, MI 48505

Incident county: GENESEE
Latitude: 43.0634
Longitude: -83.7001
Location class: 3
Federal land: No
Type of leak/rupture: OTHER
Description if leak: Not reported
Puncture diam. if leak: Not reported
Rupture type: Not reported
Rupture length in inches: Not reported
Length of propagation: Not reported
Other type of leak/rupture: POSSIBLE REGULATOR OR RELIEF FAILURE
Number of fatalities: 0
Employee fatalities: 0
Non-empl. contractor fatalities: 0
Public fatalities: 0
Number of injured: 0
Employees injured: 0
Non-empl. contractor injured: 0
Public injured: 0
Total \$ property damages: 50200
Total \$ gas loss: 100
Total \$ operator damage: 100
Public/priv property damage: 50000
Did gas ignite: Yes
Explosion occurred: Yes
Evacuation occurred: Null
Number evacuated: Not reported
Evacuation reason: Not reported
Elapsed hours area made safe: 0
Elapsed minutes area made safe: 31
Date incident reported to NRC: 2/10/2007 0:00
NRC telephonic report #: 826135

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY (Continued)

1010080834

Pressure at point and time of incident: 10
Max. Allowable Operating Pressure: 5
MAOP established by test: 10
MAOP by 49 CFR sec. 192.619(a)(3): 1
Preparer name: 5
Preparer phone: OTHER
Incident occurred on: 5
Incident other comment: OTHER
Component which failed: 5
Component other comment: OTHER MATERIAL
Material involved: Not reported
Ductile plastic: Not reported
Joint failure plastic: UNKNOWN
Brittle plastic: Not reported
Material other comment: Not reported
Year component installed: Not reported
Nominal pipe size in inches: Not reported
Pipe wall thickness in inches: Not reported
Component specification: Not reported
Specified Minimum Yield Strength: Not reported
Seam type: Not reported
Valve type: Not reported
Component manufacturer: 6
Year manufactured: INSIDE/UNDER BU
Area of incident: 20
Area other comment: MALFUNCTION OF CONTROL/RELIEF EQUIPMENT
Apparent cause: Not reported
Pipe coated: Not reported
Visual examination: Not reported
Vis. exam other comment: Not reported
Cause of corrosion: Not reported
Corrosion other comment: Not reported
Corroded part cathodically protected: Not reported
Cathodic protection year: Not reported
Previous damage: Not reported
How long previous damage (yrs): Not reported
How long previous damage (mos): Not reported
Earth movement: Not reported
Movement other comment: Not reported
Floods: Not reported
Floods other comment: Not reported
Temperature: Not reported
Temperature other comment: Not reported

EDR type: HAZARD LIQUID ACCIDENT
Incident cause: BUTT
Pipe coated: Not reported
Visual examination: Not reported
Vis. exam other comment: Not reported
Cause of corrosion: Not reported
Corrosion other comment: Not reported
Corroded part cathodically protected: Not reported
Year of protection: Not reported
Previous damage: Not reported
How long previous damage (yrs): Not reported
How long previous damage (mos): Not reported
Unknown previous damage date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY (Continued)

1010080834

Earth movement:	Not reported
Movement other comment:	Not reported
Floods:	Not reported
Floods other comment:	Not reported
Temperature:	Not reported
Temperature other comment:	Not reported
Third party excavation group:	Not reported
Third party type:	Not reported
Third party other comment:	Not reported
Excavation type:	Not reported
Excavation was an ongoing:	Not reported
Excavation last contact:	Not reported
Operator notified of excavation:	Not reported
Excav. notif. date:	Not reported
Excavation notifier:	Not reported
Was pipeline marked:	Not reported
Temporary markings:	Not reported
Permanent markings:	Not reported
Marks description:	Not reported
Timely marked pipeline:	Not reported
Fire/explosion primary cause:	Not reported
Body of Pipe:	Not reported
Body other comment:	Not reported
Component:	Not reported
Component other comment:	Not reported
Joint:	Not reported
Joint other comment:	Not reported
Butt weld:	PIPE
Butt weld other comment:	Not reported
Fillet weld:	Not reported
Fillet weld other comment:	Not reported
Pipe seam:	Not reported
Pipe seam other comment:	Not reported
Type of failure:	CONSTRUCTION DEFECT
Type of construction defect:	POOR WORKMANSHIP
Fail. due to pipe damage in transport:	NO
Part that leaked, pressure tested:	NO
Pressure test month:	Not reported
Pressure test day:	Not reported
Pressure test year:	Not reported
Test medium:	Not reported
Test medium other comment:	Not reported
Duration of pressure test:	Not reported
Test pressure at incident:	Not reported
Malfunction equipment:	Not reported
Malfunction other comment:	Not reported
Threads stripped:	Not reported
Threads other comment:	Not reported
Seal failure:	Not reported
Seal other comment:	Not reported
Incorrect operation type:	Not reported
EDR type:	HAZARD LIQUID ACCIDENT
Incident cause:	BUTT WELD
Operator DOT ID:	31555
Owner assigned operator ID:	Not reported
Operator name:	KINDER MORGAN CO2 CO. L.P.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY (Continued)

1010080834

Operator address: 500 DALLAS SUITE 1000
HOUSTON, TX 77002

Operator county: HARRIS

Time of incident: 1219

Date of incident: 1/21/2007

Year of incident: 2007

Latitude: N 37 25' 40

Longitude: W 108 42' 18

Incident city: CORTEZ

Incident county: MONTEZUMA

Incident state: CO

Incident zip: 81321

Mile post/valve station: Not reported

Survey station number: CORTEZ P/L PUMP STA

NRC telephonic report #: N/A

NRC telephonic report ID: Not reported

Dated reported to NRC: Not reported

Public/priv. property \$ damages: 0

Cost of emergency response: 0

Cost of environmental remediation: 0

Other public costs (\$): 0

Other public costs description: Not reported

Product lost (\$): 163

Operator property damage (\$): 0

Other operator costs (\$): 700

Other operator costs description: WELDER

Total costs (\$): 863

Did commodity spill: YES

Commodity ID: Not reported

Commodity name: CARBON DIOXIDE

Commodity class: CO2/N2 OR OTHER NON-FLAMMABLE, NON-TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS

Spill unit: BARRELS

Estimated loss, (barrels/gals): 98

Estimated amount recovered: 0

General Cause: MATERIAL AND/OR WELD FAILURES

Preparer name: CHARLIE ROSENBAUGH

Preparer phone: 9708825532

Line segment name/ID: PUMP #2 CORTEZ STATION

Federal land: NO

Is pipeline interstate: YES

Is pipeline offshore: NO

Offshore area: Not reported

Offshore block number: Not reported

Offshore of what state: Not reported

Incident was on outer continental shelf: NO

Operator secured property: YES

Pipeline right-of-way: NO

High Consequence Area: NO

HCA description: Not reported

Part of system involved: PUMP/METER STATION; TERMINAL/TANK FARM PIPING AND EQUIPMENT, INCLUDING SUMPS

Part of sys. involved, other: Not reported

Failure occurred on: WELDED FITTING

Failure other comment: Not reported

Year component installed: 1998

Pressure at point and time of incident: 1990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY (Continued)

1010080834

Maximum operating pressure:	2140
Overpressurization occurred:	NO
Type of leak or rupture:	Not reported
Type other comment:	Not reported
Type of leak:	Not reported
Leak puncture diameter:	Not reported
Rupture type:	Not reported
Length of rupture in inches:	Not reported
Length of propagation:	Not reported
Manual upstream block valve:	NO
Automatic upstream block valve:	NO
Remote cont. upstream block valve:	NO
Upstream block check valve:	NO
Manual downstream block valve:	NO
Automatic downstream block valve:	NO
Remote cont. downstream block valve:	NO
Downstream block check valve:	NO
Length of segment isolated:	Not reported
Distance between valves:	Not reported
Segment configured for intern. inspec.:	Not reported
In-line inspection ran at failure point:	Not reported
High resolution magnetic flux tool:	NO
Year Flux tool ran:	Not reported
Low resolution magnetic flux tool:	NO
Year flux tool ran:	Not reported
UT tool:	NO
Year UT tool ran:	Not reported
Geometry tool:	NO
Year geometry tool ran:	Not reported
Caliper tool:	NO
EDR type:	NATURAL GAS TRANSMISSION
Incident year:	2007
Incident region:	SOUTHWEST
Operator DOT ID:	19160
DOT report ID:	20070030
Owner assigned operator ID:	Not reported
Pipeline operator name:	TENNESSEE GAS PIPELINE
Operator address:	Not reported
	Not reported
Operator county:	Not reported
Incident time:	1537
Incident date:	2/17/2007 0:00
Incident city:	CYPRESS
Incident county:	HARRIS
Incident state:	TX
Incident zip:	77429
Mile post/valve station:	387+33
Survey station number:	Not reported
Latitude:	29.90085
Longitude:	95.73204
Was the incident offshore:	ONSHORE
Location class:	1
Offshore area:	Not reported
Offshore block number:	Not reported
Offshore what state:	Not reported
Incident was on outer continental shelf:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY (Continued)

1010080834

Federal land: No
Is pipeline interstate: INTERSTATE
Type of leak or rupture: RUPTURE
Type other comment: Not reported
If leak, type of leak: Not reported
Leak puncture diameter: Not reported
If rupture, type of rupture: LONGITUDINAL-TEAR/CRACK
Length of rupture in inches: 6
Length of propagation: 6
Number of fatalities: 0
Employee fatalities: 0
Non-empl. contractor fatalities: 0
Public fatalities: 0
Total injured: 1
Employee injured: 0
Public injured: 1
Non-empl. contractor injured: 0
Total \$ property damages: 1079486
Total \$ amount of gas loss: 733486
Total \$ amount of operator damage: 110000
Total \$ amount of public prop. damage: 236000
Release was in high consequence area: No
Did gas ignite: No
Was there an explosion: Yes
Was there evacuation: No
Number of people evacuated: 0
Reason for evacuation: Not reported
Hours elapsed until area made safe: 3
Minutes elapsed until area made safe: 0
Date incident reported to NRC: 2/17/2007 0:00
NRC telephonic report #: 826795
NRC telephonic report ID: Not reported
Pressure at point and time of incident: 580
Max. Allowable Operating Pressure: 750
MAOP by 49 CFR sec. 192.619(a)(1): No
MAOP by 49 CFR sec. 192.619(a)(2): No
MAOP by 49 CFR sec. 192.619(a)(3): No
MAOP by 49 CFR sec. 192.619(a)(4): No
MAOP by 49 CFR sec. 192.619(a)(c): Yes
Overpressurization occurred: No
Preparer name: KENNETH C. PETERS
Preparer phone: 2053257554
Incident location: TRANSMISSION
Component which failed: BODY OF PIPE
Component other comment: Not reported
Material involved: STEEL
Material other comment: Not reported
Ductile plastic: N
Brittle plastic: N
Joint failure plastic: N
Part of system involved in incident: PIPELINE
Part of system other comment: Not reported
Year component installed: 1948
Nominal pipe size in inches: 31
Pipe wall thickness in inches: 0.31
Component specification: API 5L
Specified Minimum Yield Strength: 52000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY (Continued)

1010080834

Seam type: DSAW
Valve type: Not reported
Component manufacturer: CONWES
Year manufactured: 1948
Area of incident: UNDER GROUND
Area other comment: Not reported
Depth of cover in inches: 40
Date of report: 3/13/2007 10:24
Apparent cause of incident: RUPTURE OF PREVIOUSLY DAMAGED PIPE
Pipe coated: Not reported
Visual examination: Not reported
Visual exam other comment: Not reported
Cause of corrosion: Not reported
Corrosion other comments: Not reported
Corroded part under cathodic protection: Null
Cathodic protection year: Not reported
Previously damaged in corrosion area: Null
Previous damage year: Not reported

**A2
Target
Property**

**ALLEN STORAGE FACILITY
4002 JAMES P COLE BLVD
FLINT, MI 48505**

**LUST U003083131
UST N/A**

Site 2 of 3 in cluster A

**Actual:
750 ft.**

LUST:

Facility ID: 00008266
Source: STATE OF MICHIGAN
Owner Name: GM Powertrain Flint North
Owner Address: 902 E Leith St MC:485-143-060
Owner City,St,Zip: Flint, MI 48550
Owner Contact: Not reported
Owner Phone: (810) 236-6427
Country: USA
District: Lansing District Office
Site Name: Boc, Allen Storage
Latitude: 43.0515130000
Longitude: -83.6763580000
Date of Collection: 01-12-1998
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0628-89
Release Date: Oct 3 1989
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Dec 18 2003

Leak Number: C-0660-95
Release Date: Jun 6 1995
Substance Released: Diesel
Release Status: Closed
Release Closed Date: Dec 18 2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLEN STORAGE FACILITY (Continued)

U003083131

UST:

Facility ID: 00008266
Facility Type: CLOSED
Latitude: 43.0515130000
Longitude: -83.6763580000
Owner Name: GM Powertrain Flint North
Owner Address: 902 E Leith St MC:485-143-060
Owner City,St,Zip: Flint, MI 48550
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 236-6427
Contact: Robert Metcalf
Contact Phone: (810) 236-0300
Date of Collection: 01-12-1998
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Mar 18 1985
Product: Diesel
Remove Date: Oct 30 2002
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Fiberglass Reinforced Plastic, Double Walled
Impressed Device: No

A3 4002 JAMES P COLE
Target 4002 JAMES P COLE
Property FLINT, MI

ERNS 89124486
N/A

Site 3 of 3 in cluster A

Actual: 750 ft. [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

B4 UNIVERSAL SYSTEMS
WNW 1401 E STEWART AVE
< 1/8 FLINT, MI 48505
0.054 mi.
284 ft. Site 1 of 2 in cluster B

RCRA-NonGen 1007098401
MIK514418854

Relative: RCRA-NonGen:
Higher Date form received by agency: 04/24/2003
Facility name: UNIVERSAL SYSTEMS
Actual: Facility address: 1401 E STEWART AVE
751 ft. FLINT, MI 48505
EPA ID: MIK514418854

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSAL SYSTEMS (Continued)

1007098401

Contact: TODD DENNIS
Contact address: 1401 E STEWART AVE
FLINT, MI 48505
Contact country: Not reported
Contact telephone: (810) 785-7970
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: GENE DENNIS
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: 04/24/2003
Owner/Op end date: Not reported

Owner/operator name: GENE DENNIS
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: 04/24/2003
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

Universal Waste Summary:

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSAL SYSTEMS (Continued)

1007098401

Generated waste on-site: No

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

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

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

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

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

Violation Status: No violations found

**B5
WNW
< 1/8
0.054 mi.
284 ft.**

**UNIVERSAL SYSTEMS
1401 E STEWART AVE
FLINT, MI 48505**

Site 2 of 2 in cluster B

**LUST U003081893
UST N/A**

**Relative:
Higher**

LUST:

Facility ID: 00007289
Source: STATE OF MICHIGAN
Owner Name: Universal Systems
Owner Address: 1401 E Stewart Ave
Owner City,St,Zip: Flint, MI 48505-3616
Owner Contact: Not reported
Owner Phone: 810-785-7970
Country: USA
District: Lansing District Office
Site Name: Universal Systems
Latitude: 43.0542120000
Longitude: -83.6764770000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0160-03
Release Date: Apr 21 2003
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: Jun 2 2003

UST:

Facility ID: 00007289

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSAL SYSTEMS (Continued)

U003081893

Facility Type: CLOSED
Latitude: 43.0542120000
Longitude: -83.6764770000
Owner Name: Universal Systems
Owner Address: 1401 E Stewart Ave
Owner City,St,Zip: Flint, MI 48505-3616
Owner Country: USA
Owner Contact: Not reported
Owner Phone: 810-785-7970
Contact: Todd Dennis
Contact Phone: 810-785-7970
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: 3000
Install Date: Mar 11 1981
Product: Gasoline
Remove Date: Mar 31 2003
Tank Release Detection: Automatic Tank Gauging
Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel, Cathodically Protected Steel
Impressed Device: No

C6
NNW
< 1/8
0.107 mi.
566 ft.

FLINT COATINGS INC
4221 JAMES P COLE
FLINT, MI 48505
Site 1 of 2 in cluster C

FINDS 1000321412
RCRA-NonGen MID981796527

Relative:
Higher

FINDS:

Registry ID: 110000781887

Actual:
751 ft.

Environmental Interest/Information System

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.

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,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FLINT COATINGS INC (Continued)

1000321412

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

RCRA-NonGen:

Date form received by agency: 12/31/2001
Facility name: FLINT COATINGS INC
Facility address: 4221 JAMES P COLE
FLINT, MI 48505
EPA ID: MID981796527
Contact: NOT OBTAINED NOT OBTAINED
Contact address: 4221 JAMES P COLE
FLINT, MI 48505
Contact country: Not reported
Contact telephone: (810) 555-1212
Contact email: Not reported
EPA Region: 05
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FLINT COATINGS INC (Continued)

1000321412

Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

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

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

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

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

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

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

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

Historical Generators:

Date form received by agency: 08/31/1998
Facility name: FLINT COATINGS INC
Classification: Not a generator, verified

Date form received by agency: 11/17/1986
Facility name: FLINT COATINGS INC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FLINT COATINGS INC (Continued)

1000321412

Classification: Not a generator, verified

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 09/02/1998
Date achieved compliance: 10/26/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 09/02/1998
Date achieved compliance: 10/26/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 09/02/1998
Date achieved compliance: 10/26/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 08/13/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 10/26/1998
Evaluation lead agency: State

Evaluation date: 08/13/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 10/26/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FLINT COATINGS INC (Continued)

1000321412

Evaluation lead agency: State

Evaluation date: 08/13/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 10/26/1998
Evaluation lead agency: State

**C7
NNW
< 1/8
0.107 mi.
566 ft.**

**4221 JAMES P COLE BOULEVARD
4221 JAMES P COLE BOULEVARD
FLINT, MI**

**BEA S107596698
N/A**

Site 2 of 2 in cluster C

**Relative:
Higher**

BEA:
Secondary Address: Not reported
BEA Number: 1014
District: Lansing
Date Received: 12/22/2005 12:59:00 AM
Submitter Name: Lasalle Bank
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: innesj
Division Assigned: Environmental Response Division

**Actual:
751 ft.**

Secondary Address: Not reported
BEA Number: 1227
District: Lansing
Date Received: 9/28/2007 12:59:00 AM
Submitter Name: Thomas A Panek
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: innesj
Division Assigned: Environmental Response Division

**8
East
1/8-1/4
0.150 mi.
790 ft.**

**MI DEPT/TRANSPORTATION
I-475 OVER STEWART
FLINT, MI 48501**

**FINDS 1001228757
RCRA-NonGen MIR000034330**

**Relative:
Lower**

FINDS:

Registry ID: 110007593443

**Actual:
734 ft.**

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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MI DEPT/TRANSPORTATION (Continued)

1001228757

RCRA-NonGen:

Date form received by agency: 02/28/2001
Facility name: MI DEPT/TRANSPORTATION
Facility address: I-475 OVER STEWART
FLINT, MI 48501
EPA ID: MIR000034330
Mailing address: 9495 E POTTER RD
DAVISON, MI 48423
Contact: ARMANDO LOPEZ
Contact address: I-475 OVER STEWART
FLINT, MI 48501
Contact country: Not reported
Contact telephone: (810) 653-7470
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: MICH DEPT OF TRANSPORTATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1901
Owner/Op end date: Not reported

Owner/operator name: MICH DEPT OF TRANSPORTATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1901
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

MI DEPT/TRANSPORTATION (Continued)

1001228757

Universal Waste Summary:

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

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

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

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

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

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

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

Historical Generators:

Date form received by agency: 10/10/2000
Facility name: MI DEPT/TRANSPORTATION
Classification: Not a generator, verified

Date form received by agency: 08/11/1998
Facility name: MI DEPT/TRANSPORTATION
Classification: Not a generator, verified

Violation Status: No violations found

D9
North
1/8-1/4
0.214 mi.
1132 ft.

LOCKHART CHEMICAL COMPANY
4302 JAMES P. COLE BOULEVARD
FLINT, MI 48505

Site 1 of 2 in cluster D

SHWS **S107792965**
BEA **N/A**
NPDES

Relative:
Equal

SHWS:

Facility ID: 25000013
Facility Status: Interim Response in progress

Actual:
750 ft.

Source: Petroleum Products
SAM Score: 34 out of 40
SAM Score Date: 5/23/2005
Township: 08N
Range: 07E
Section: 31
Quarter: NE
Quarter/Quarter: Not reported
Pollutants: 1,3-Dichloropropene; Sb; As; Benzene; Ni; PCB's; BEHP; Hg

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL COMPANY (Continued)

S107792965

BEA:

Secondary Address: Not reported
BEA Number: 1405
District: Lansing
Date Received: 5/28/2009 12:59:00 AM
Submitter Name: Additives International, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: innesj
Division Assigned: RRD

MI NPDES:

Permit Number: MIS510265
Permittee PO Box: N
Permittee Email: Not reported
Issue Date: 1/20/2005
Effective Date: 4/1/2005
Expiration Date: 4/1/2010
Permittee Name: Lockhart Chemical Company
Permittee Address: 4302 James P. Cole Boulevard
Permittee Addr2: Not reported
Permittee City,St,Zip: Flint, MI 48505
Permit Type: COC
Facility Name 2: Not reported
Facility Name 3: Not reported
Facility Name 4: Not reported
Designed Name: Lockhart Chem Co-Flint
Latitude: 43.058900000000001
Lat Direction: N
Lat Type Code: LAT
Longitude: -83.676400000000001
Lon Direction: W
Lon Type Code: LON
Hydrologic Unit Code: 4080204

D10 **LOCKHART CHEMICAL CO**
North **4302 JAMES P COLE BLVD**
1/8-1/4 **FLINT, MI 48505**

0.214 mi.
1132 ft.

Site 2 of 2 in cluster D

Relative:
Equal

FINDS:

Registry ID: 110000407596

Actual:
750 ft.

Environmental Interest/Information System

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

FINDS **1000270272**
RCRA-LQG **48505LCKHR47**
TRIS
MANIFEST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

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

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.

US Facility Response Plan (FRP) contains plans for responding, to the maximum extent practical, to worst case discharges of oil.

RCRA-LQG:

Date form received by agency: 02/18/2008

Facility name: LOCKHART CHEMICAL CO

Facility address: 4302 JAMES P COLE BLVD
FLINT, MI 48505

EPA ID: MID033674730

Contact: RAJINDER MINHAS

Contact address: 4302 JAMES P COLE BLVD
FLINT, MI 48505

Contact country: Not reported

Contact telephone: (810) 789-8330

Contact email: Not reported

EPA Region: 05

Land type: Private

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: LOCKHART HOLDING MID033674730

Owner/operator address: Not reported

Owner/operator country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1985
Owner/Op end date: Not reported

Owner/operator name: LOCKHART HOLDING MID033674730
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: 01/01/1985
Owner/Op end date: Not reported

Owner/operator name: NL KIMES ASSOC INC MIT270013014
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

Owner/operator name: NL KIMES ASSOC INC MIT270013014
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

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

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

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

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

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

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

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

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

Historical Generators:

Date form received by agency: 03/01/2006
Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 02/14/2006
Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 03/02/2005
Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 03/01/2004
Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 02/26/2004
Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 03/24/2003
Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002
Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 02/25/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 01/01/2001

Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 12/21/2000

Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 02/11/1998

Facility name: LOCKHART CHEMICAL CO
Site name: LOCKHART CHEMICAL COMPANY
Classification: Large Quantity Generator

Date form received by agency: 02/03/1989

Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 11/24/1980

Facility name: LOCKHART CHEMICAL CO
Classification: Large Quantity Generator

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): 297341

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 284230.2

Waste code: D021
Waste name: CHLOROBENZENE
Amount (Lbs): 1369.5

Waste code: D022
Waste name: CHLOROFORM
Amount (Lbs): 1369.5

Waste code: D025
Waste name: P-CRESOL
Amount (Lbs): 1369.5

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 1369.5

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 1369.5

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Not reported
Date violation determined: Not reported
Date achieved compliance: Not reported
Violation lead agency: Not reported
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Tank System Standards
Date violation determined: 02/01/2006
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/14/2006
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-Tank System Standards
Date violation determined: 02/01/2006
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 02/14/2008
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

Area of violation: TSD IS-Preparedness and Prevention
Date violation determined: 02/01/2006
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 02/14/2008
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-Preparedness and Prevention
Date violation determined: 02/01/2006
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/14/2006
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: Generators - Pre-transport
Date violation determined: 07/13/1999
Date achieved compliance: 10/16/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/13/1999
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 - General
Date violation determined: 06/29/1999
Date achieved compliance: 10/16/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/13/1999
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: 05/10/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

Evaluation: FOLLOW-UP INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/30/2006
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Preparedness and Prevention
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 08/30/2006
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Tank System Standards
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 02/01/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Tank System Standards
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 02/01/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Preparedness and Prevention
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/29/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/16/2000
Evaluation lead agency: State

Evaluation date: 06/29/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 10/16/2000
Evaluation lead agency: State

NY MANIFEST:

EPA ID: MID033674730
Country: USA
Mailing Name: LOCKHART CHEMICAL CO
Mailing Contact: RAJ MINHAS
Mailing Address: JAMES P COLR BLVD
Mailing Address 2: Not reported
Mailing City: FLINT
Mailing State: MI
Mailing Zip: 48505
Mailing Zip4: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

Mailing Country: USA
Mailing Phone: 810-789-8330

Document ID: NYB8912277
Manifest Status: Not reported
Trans1 State ID: NYD986969947
Trans2 State ID: Not reported
Generator Ship Date: 05/26/1998
Trans1 Recv Date: 05/26/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/27/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID033674730
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: 0225848ME
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 19740
Units: P - Pounds
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 98
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: NYB9092682
Manifest Status: Not reported
Trans1 State ID: NYD986969947
Trans2 State ID: Not reported
Generator Ship Date: 12/10/1998
Trans1 Recv Date: 12/10/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/11/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID033674730
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: 88916MNY
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 32160
Units: P - Pounds

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOCKHART CHEMICAL CO (Continued)

1000270272

Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 98
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: NYB9132867
Manifest Status: Not reported
Trans1 State ID: OHD009865825
Trans2 State ID: Not reported
Generator Ship Date: 08/12/1999
Trans1 Recv Date: 08/12/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/13/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID033674730
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: T262KJ
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 16480
Units: P - Pounds
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 99
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

11
East
1/8-1/4
0.239 mi.
1262 ft.

PRINCE SINGH LLC
4111 N DORT HWY
FLINT, MI 48505

LUST **U000253210**
UST **N/A**

Relative:
Lower

LUST:

Facility ID: 00015951
Source: STATE OF MICHIGAN
Owner Name: Prince Singh LLC
Owner Address: 4111 N Dort Hwy
Owner City,St,Zip: Flint, MI 48505
Owner Contact: Not reported
Owner Phone: (810) 787-6510
Country: USA
District: Lansing District Office
Site Name: Citgo Petroleum Co.
Latitude: 43.0539000000
Longitude: -83.6713580000
Date of Collection: 01-12-1998
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0951-98
Release Date: Oct 1 1998
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00015951
Facility Type: ACTIVE
Latitude: 43.0539000000
Longitude: -83.6713580000
Owner Name: Prince Singh LLC
Owner Address: 4111 N Dort Hwy
Owner City,St,Zip: Flint, MI 48505
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 787-6510
Contact: Balkar Singh
Contact Phone: (810) 787-6510
Date of Collection: 01-12-1998
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 2
Tank Status: **Currently In Use**
Capacity: 12000
Install Date: Mar 6 1985
Product: Gasoline

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PRINCE SINGH LLC (Continued)

U000253210

Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Cathodically Protected Steel
Impressed Device: No

Tank ID: 1
Tank Status: Currently In Use
Capacity: 12000
Install Date: Mar 6 1985
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Cathodically Protected Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Mar 6 1985
Product: Used Oil
Remove Date: Oct 1 1998
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Gravity Fed?
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Currently In Use
Capacity: 6000
Install Date: Jan 1 1998
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Cathodically Protected Steel
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

12
West
1/4-1/2
0.417 mi.
2200 ft.

FLINT IND PLATING
1109 E STEWART ST
FLINT, MI 48505

CERCLIS **1003871916**
MID981958978

Relative:
Higher

CERCLIS:
Site ID: 0503643
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

Actual:
755 ft.

CERCLIS Site Contact Name(s):

Contact Name: Not reported
Contact Tel: Not reported
Contact Title: 52727

Site Description: Not reported

CERCLIS Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 4/29/1987 0:00:00
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 8/2/1988 0:00:00
Priority Level: NFRAP: No further Remedial Action planned

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 9/15/1999 0:00:00
Priority Level: Not reported

Action: Notice Letters Issued
Date Started: Not reported
Date Completed: 8/11/2005 0:00:00
Priority Level: Not reported

Action: SITE UNARCHIVED
Date Started: Not reported
Date Completed: 8/23/2005 10:50:25
Priority Level: Not reported

Action: REMOVAL
Date Started: 8/26/2005 0:00:00
Date Completed: 9/28/2005 0:00:00
Priority Level: Cleaned up

Action: NON-NPL PRP SEARCH
Date Started: Not reported
Date Completed: 12/29/2006 0:00:00
Priority Level: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

13
East
1/2-1
0.960 mi.
5068 ft.

(FRMR) ZACK CO/DEMO DUMP
4401 WESTERN ROAD
FLINT, MI 48506

SHWS S105144002
N/A

Relative:
Lower

SHWS:

Facility ID: 25000352
Facility Status: Inactive - no actions taken to address contamination
Source: Fabricated Metal Products
SAM Score: 32 out o
SAM Score Date: 4/15/2004
Township: 08N
Range: 07E
Section: 32
Quarter: NE
Quarter/Quarter: SE
Pollutants: Benzo(a)pyrene; Pb; PCB's; PCE

Actual:
734 ft.

14
ESE
1/2-1
0.968 mi.
5112 ft.

2601-2603 RICHFIELD ROAD
2601-2603 RICHFIELD ROAD
FLINT, MI

SHWS S102720999
BEA N/A

Relative:
Higher

SHWS:

Facility ID: 25000655
Facility Status: Inactive - no actions taken to address contamination
Source: Unknown
SAM Score: 19 out o
SAM Score Date: 5/12/2004
Township: 07N
Range: 07E
Section: 32
Quarter: Not reported
Quarter/Quarter: Not reported
Pollutants: As

Actual:
759 ft.

BEA:

Secondary Address: Not reported
BEA Number: 18
District: Lansing
Date Received: 4/22/1996
Submitter Name: Flint Auto Auction, Inc.
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: temppm
Division Assigned: Environmental Response Division

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FLINT	S104909673	1512 AND 1514 S. DORT HWY.	1512 / 1514 S. DORT HWY.		BEA
FLINT	S104911420	3701 AND 3751 S. DORT HIGHWAY	3701 / 3751 S. DORT HIGHWAY		BEA
FLINT	S108895881	3701 AND 3751 S. DORT HWY	3701 / 3751 S. DORT HWY		BEA
FLINT	S108669810	5130 AND 5122 NORTH DORT HIGHWAY	5130 / 5122 NORTH DORT HIGHWAY		BEA
FLINT	1010320650	CITY OF FLINT	CHEVROLET AVENUE BRIDGE OVER F	48505	RCRA-NonGen
FLINT	S104910079	S.E. CORNER STEWART AVE. & JAMES P	S.E. CORNER STEWART AVE. / J		BEA
FLINT	S108895850	0.619 ACRES NE CORNER OF N.DORT HW	NE CORNER OF N.DORT HWY/DAVISO		BEA
FLINT	S108895865	2.7 ACRES NE CORNER N. DORT HWY/DA	NE CORNER N. DORT HWY/DAVISON		BEA
FLINT	S101642102	RESOURCE RECOVERY OF FLINT INC	5125 NORTH DORT HWY.	48505	SWF/LF
FLINT	1004533907	FLINT WATER PLANT AND FACILITIES	4500 N DORT HWY	48505	FINDS, LUST, UST, FTTS, HIST FTTS
FLINT	1010319430	JET AUTO REPAIR IC	5201 N DORT HWY	48505	RCRA-NonGen
FLINT	S100070410	E I DUPONT DUMP	5022 N DORT HWY	48505	HIST LF
FLINT	S105254445	G-5150 DORT HIGHWAY	G-5150 DORT HIGHWAY	48505	BEA
FLINT	S106896450	5167 NORTH DORT HIGHWAY	5167 NORTH DORT HIGHWAY	48505	BEA
FLINT	S108633182	FORMER SUNOCO #0354/ A J MINI MART	1780 DORT HWY.		BROWNFIELDS
FLINT	S108084417	PARCEL 07-32-102-001 & 07-32-102-0	NORTH DORT HIGHWAY		BEA
FLINT	1007100538	MI DEPT/ENVIRONMENTAL QUALITY	GROVELAND AVE NEAR N DORT	48505	RCRA-NonGen
FLINT	1010319910	AIRGAS GREAT LAKES INC	G5075 N DORT HWY	48505	RCRA-CESQG
FLINT	U000253494	LEEMON OIL CO INC	G5150 N DORT HWY	48505	LUST, UST
FLINT	S108036275	MARATHON ASHLAND FLINT TERMINAL	G-6065 N. DORT HIGHWAY	48506	SHWS
FLINT	S104911551	G-5107 NORTH DORT HWY	G-5107 NORTH DORT HWY.	48505	BEA
FLINT	S108895939	G-5150 NORTH DORT HIGHWAY	G-5150 NORTH DORT HIGHWAY	48505	BEA
FLINT	S104911368	RAILROAD RIGHT-OF-WAY (FORMER)	NE OF DORT HWY / R.T. LONGWA		BEA
FLINT	1007096961	NORTH CEN CO-OP TRUCKING	OFF RAMP TO DORT FR I-69 W	48505	RCRA-NonGen
FLINT	1007098163	CSX	OFF RAMP TO DORT FR I-69 W	48505	RCRA-NonGen

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: 06/29/2009	Source: EPA
Date Data Arrived at EDR: 07/31/2009	Telephone: N/A
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 10/14/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 01/25/2010
	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: 06/29/2009	Source: EPA
Date Data Arrived at EDR: 07/31/2009	Telephone: N/A
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 10/14/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 01/25/2010
	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: 06/29/2009	Source: EPA
Date Data Arrived at EDR: 07/31/2009	Telephone: N/A
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 10/14/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 01/25/2010
	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: 09/30/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/11/2010
	Data Release Frequency: Quarterly

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: 09/09/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 12/14/2009
	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: 06/30/2009	Source: EPA
Date Data Arrived at EDR: 07/01/2009	Telephone: 800-424-9346
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 08/31/2009
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/30/2009
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/07/2009
Next Scheduled EDR Contact: 01/18/2010
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: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/07/2009
Next Scheduled EDR Contact: 01/18/2010
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: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/07/2009
Next Scheduled EDR Contact: 01/18/2010
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: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/07/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/18/2009
Next Scheduled EDR Contact: 12/28/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/18/2009
Next Scheduled EDR Contact: 12/28/2009
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: 05/15/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 62

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 10/06/2009
Next Scheduled EDR Contact: 01/18/2010
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: 08/11/2009
Date Data Arrived at EDR: 08/18/2009
Date Made Active in Reports: 08/26/2009
Number of Days to Update: 8

Source: Department of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 08/18/2009
Next Scheduled EDR Contact: 11/16/2009
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: 07/21/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 07/24/2009
Number of Days to Update: 3

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 10/05/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Semi-Annually

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: 09/01/2009
Date Data Arrived at EDR: 09/04/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 31

Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 09/04/2009
Next Scheduled EDR Contact: 12/07/2009
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 06/03/2009	Telephone: 303-312-6271
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/16/2009
	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: 08/21/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/16/2009
	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: 08/24/2009	Source: EPA Region 6
Date Data Arrived at EDR: 08/26/2009	Telephone: 214-665-6597
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 11/16/2009
	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: 08/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/08/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/09/2009	Telephone: 415-972-3372
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 104	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/20/2009	Source: EPA Region 10
Date Data Arrived at EDR: 08/21/2009	Telephone: 206-553-2857
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 11/16/2009
	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: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/01/2009
Date Data Arrived at EDR: 09/04/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 27

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 09/04/2009
Next Scheduled EDR Contact: 12/07/2009
Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 09/15/2009
Date Data Arrived at EDR: 09/22/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 9

Source: Department of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 09/08/2009
Next Scheduled EDR Contact: 12/07/2009
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: 09/08/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 27

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

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: 08/24/2009
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 26

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
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: 02/24/2009
Date Data Arrived at EDR: 03/03/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Semi-Annually

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: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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).

Date of Government Version: 08/20/2009	Source: EPA Region 10
Date Data Arrived at EDR: 08/21/2009	Telephone: 206-553-2857
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 11/16/2009
	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	Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 08/21/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/16/2009
	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: 06/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 06/03/2009	Telephone: 303-312-6137
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/16/2009
	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: 06/04/2009	Source: EPA Region 9
Date Data Arrived at EDR: 06/04/2009	Telephone: 415-972-3368
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 109	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Quarterly

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	Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008	Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 10/05/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/18/2010
	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	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 09/21/2009
Date Data Arrived at EDR: 09/21/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 14

Source: Department of Environmental Quality
Telephone: 517-373-4805
Last EDR Contact: 09/14/2009
Next Scheduled EDR Contact: 11/30/2009
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: 09/15/2009
Next Scheduled EDR Contact: 12/21/2009
Data Release Frequency: Varies

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: 10/01/2008
Date Data Arrived at EDR: 11/14/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/11/2009
Next Scheduled EDR Contact: 01/11/2010
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 09/23/2009
Next Scheduled EDR Contact: 12/21/2009
Data Release Frequency: Varies

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997
Date Data Arrived at EDR: 02/28/2003
Date Made Active in Reports: 03/06/2003
Number of Days to Update: 6

Source: Department of Environmental Quality
Telephone: 517-335-4034
Last EDR Contact: 02/28/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/26/2009
Next Scheduled EDR Contact: 11/23/2009
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 06/22/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 91

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/26/2009
Next Scheduled EDR Contact: 06/22/2009
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: 08/20/2009
Date Data Arrived at EDR: 08/21/2009
Date Made Active in Reports: 08/26/2009
Number of Days to Update: 5

Source: Department of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 10/20/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 11/21/2008
Number of Days to Update: 3

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 08/31/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
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: 08/18/2009
Date Data Arrived at EDR: 08/21/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 09/08/2009
Next Scheduled EDR Contact: 12/07/2009
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: 07/13/2009
Date Data Arrived at EDR: 08/17/2009
Date Made Active in Reports: 08/26/2009
Number of Days to Update: 9

Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 08/11/2009
Next Scheduled EDR Contact: 11/10/2008
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: 07/16/2009
Date Data Arrived at EDR: 07/16/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 67

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/05/2009
Next Scheduled EDR Contact: 01/11/2010
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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
Date Data Arrived at EDR: 09/22/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 13

Source: Department of Environmental Quality
Telephone: 517-373-8427
Last EDR Contact: 09/22/2009
Next Scheduled EDR Contact: 12/28/2009
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: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/07/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 72

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/27/2009
Next Scheduled EDR Contact: 11/23/2009
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: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/30/2009
Next Scheduled EDR Contact: 12/28/2009
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 04/24/2009
Date Data Arrived at EDR: 05/19/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 125

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/06/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/23/2009
Date Data Arrived at EDR: 04/28/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 21

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/22/2009
Next Scheduled EDR Contact: 12/28/2009
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: 09/14/2009
Next Scheduled EDR Contact: 12/14/2009
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/28/2009
Date Data Arrived at EDR: 06/23/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 90

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/18/2009
Next Scheduled EDR Contact: 12/21/2009
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: 09/14/2009
Next Scheduled EDR Contact: 12/14/2009
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: 10/07/2009
Next Scheduled EDR Contact: 01/11/2010
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: 09/10/2009
Next Scheduled EDR Contact: 12/14/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 09/10/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/14/2009
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	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	Source: EPA
Date Data Arrived at EDR: 05/19/2009	Telephone: 202-564-4203
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 09/29/2009
Number of Days to Update: 125	Next Scheduled EDR Contact: 01/11/2010
	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: 03/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/20/2009	Telephone: 202-564-5088
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 09/28/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/11/2010
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/27/2009	Source: EPA
Date Data Arrived at EDR: 08/05/2009	Telephone: 202-566-0500
Date Made Active in Reports: 09/29/2009	Last EDR Contact: 08/05/2009
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/02/2009
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/06/2009	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/13/2009	Telephone: 301-415-7169
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 09/21/2009
Number of Days to Update: 70	Next Scheduled EDR Contact: 12/28/2009
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/28/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/28/2009	Telephone: 202-343-9775
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 10/16/2009
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/25/2010
	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: 07/23/2009	Source: EPA
Date Data Arrived at EDR: 07/28/2009	Telephone: (312) 353-2000
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 09/18/2009
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/28/2009
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 92

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/09/2009
Next Scheduled EDR Contact: 12/07/2009
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
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 517-241-1515
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

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: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Varies

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 07/28/2009
Date Data Arrived at EDR: 07/28/2009
Date Made Active in Reports: 08/18/2009
Number of Days to Update: 21

Source: Department of Environmental Quality
Telephone: 517-241-1300
Last EDR Contact: 10/14/2009
Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 05/22/2007
Date Data Arrived at EDR: 10/19/2007
Date Made Active in Reports: 11/05/2007
Number of Days to Update: 17

Source: Department of Environmental Quality
Telephone: 517-373-7074
Last EDR Contact: 10/05/2009
Next Scheduled EDR Contact: 01/11/2010
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: 09/14/2009
Date Data Arrived at EDR: 09/14/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 21

Source: DEPT. OF ENVIRONMENTAL QUALITY
Telephone: 517-373-9541
Last EDR Contact: 09/08/2009
Next Scheduled EDR Contact: 12/07/2009
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
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: 06/29/2009
Date Data Arrived at EDR: 06/29/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 09/08/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/21/2009
Next Scheduled EDR Contact: 11/16/2009
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
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: N/A

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 07/07/2009
Date Data Arrived at EDR: 08/04/2009
Date Made Active in Reports: 08/18/2009
Number of Days to Update: 14

Source: Department of Environmental Quality
Telephone: 586-753-3754
Last EDR Contact: 10/13/2009
Next Scheduled EDR Contact: 01/25/2010
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

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: 09/09/2009
Next Scheduled EDR Contact: 12/07/2009
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: 08/04/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/28/2009
Date Data Arrived at EDR: 08/27/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 25

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/27/2009
Next Scheduled EDR Contact: 11/23/2009
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/11/2008
Date Made Active in Reports: 10/02/2008
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/08/2009
Next Scheduled EDR Contact: 12/07/2009
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: 09/14/2009
Next Scheduled EDR Contact: 12/14/2009
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/24/2009

Next Scheduled EDR Contact: 01/04/2010

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.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MLC - FLINT FLOWTHROUGH
4002 JAMES COLE BLVD
FLINT, MI 48505

TARGET PROPERTY COORDINATES

Latitude (North):	43.05360 - 43° 3' 13.0"
Longitude (West):	83.6757 - 83° 40' 32.5"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	282086.1
UTM Y (Meters):	4770027.0
Elevation:	750 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	43083-A6 FLINT NORTH, MI
Most Recent Revision:	1975

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).

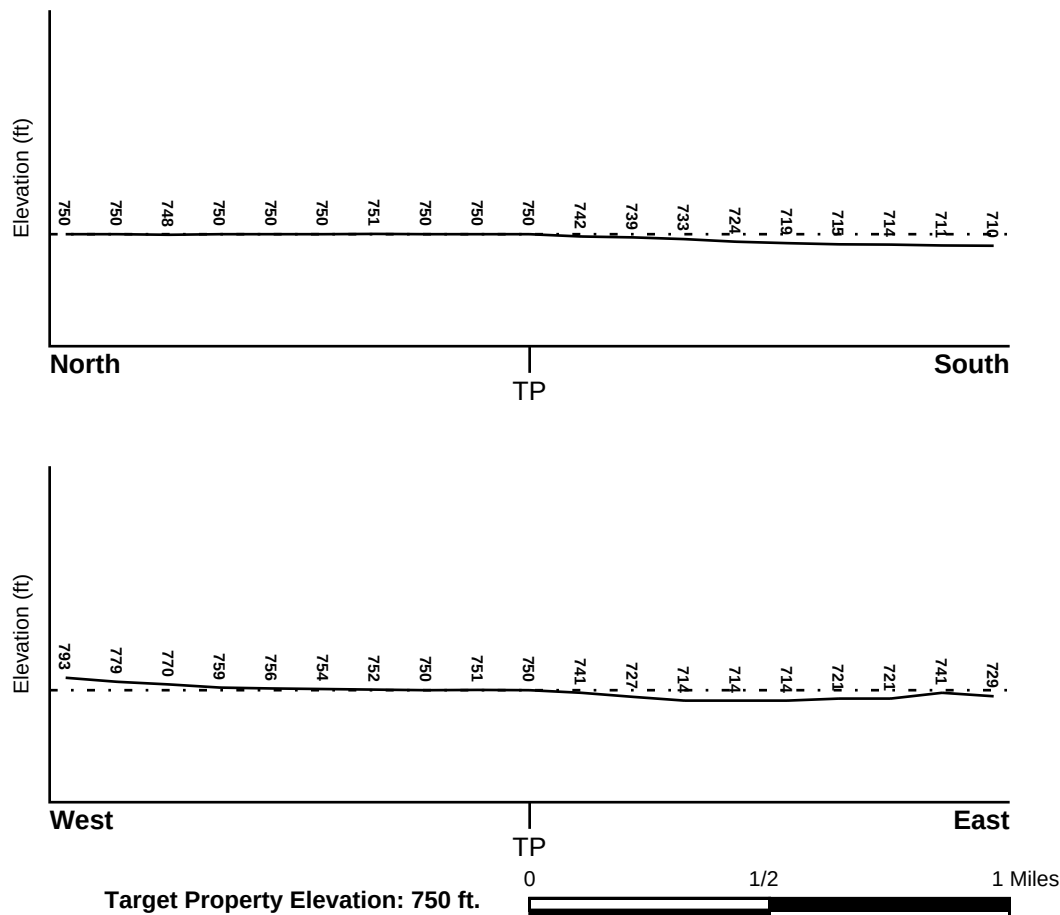
TOPOGRAPHIC INFORMATION

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 ESE

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

<u>Target Property County</u>	<u>FEMA Flood</u>
GENESEE, MI	<u>Electronic Data</u>
	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	2600760020C
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Additional Panels in search area:	2600760010C
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NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
FLINT NORTH	<u>Data Coverage</u>
	Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
A1	1/4 - 1/2 Mile North	NE
A2	1/2 - 1 Mile North	Not Reported
3	1/2 - 1 Mile ESE	NW
7	1/2 - 1 Mile ESE	NW

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

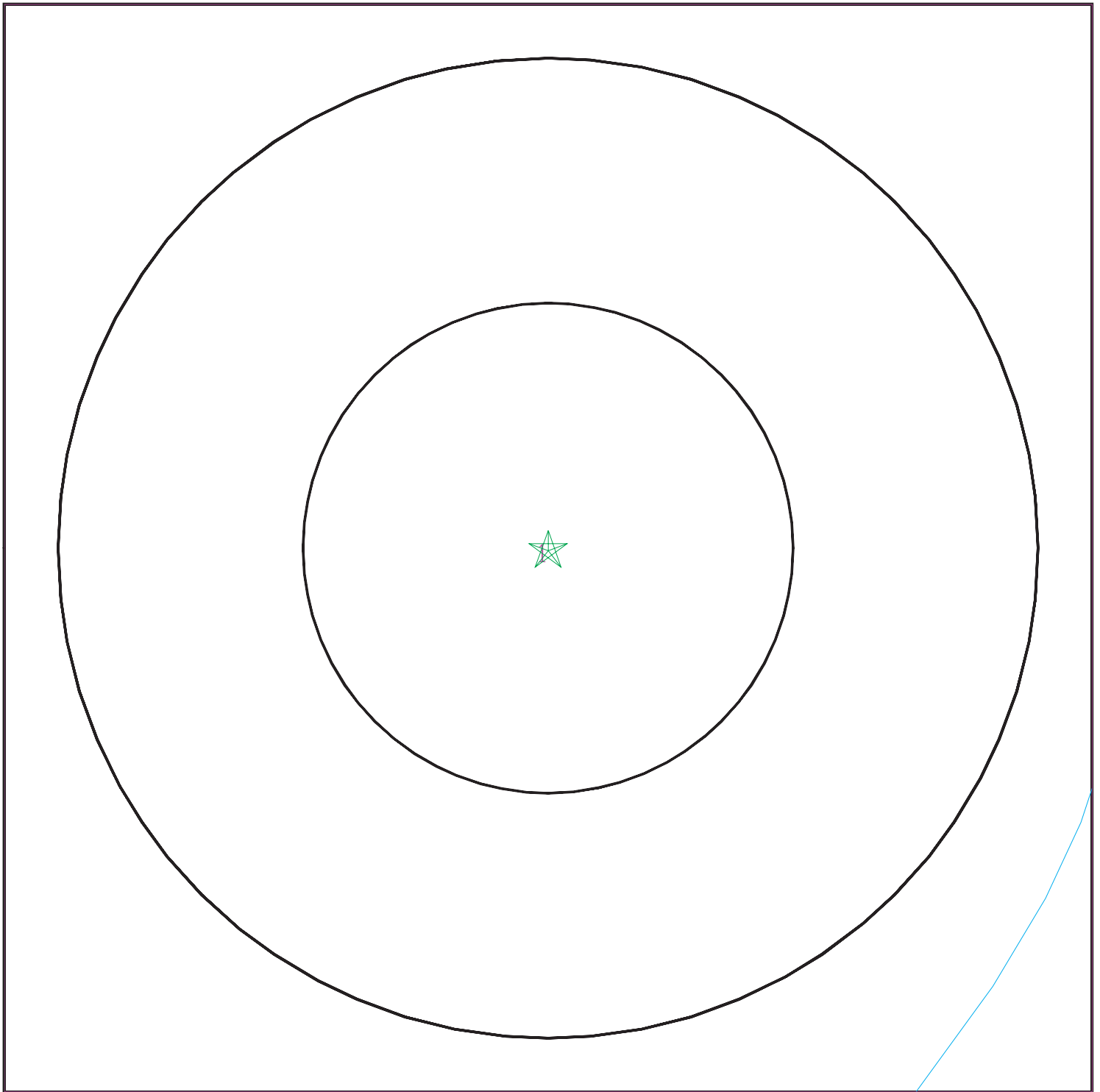
Era:	Paleozoic
System:	Pennsylvanian
Series:	Atokan and Morrowan Series
Code:	PP1 (<i>decoded above as Era, System & Series</i>)

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 - 2616104.2s



- ★ Target Property
- ∨ SSURGO Soil
- ∨ Water



SITE NAME: MLC - Flint Flowthrough
ADDRESS: 4002 James Cole Blvd
Flint MI 48505
LAT/LONG: 43.0536 / 83.6757

CLIENT: LFR Inc
CONTACT: Morgan Vogt
INQUIRY #: 2616104.2s
DATE: October 16, 2009 12:51 pm

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: Miscellaneous Areas

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<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>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

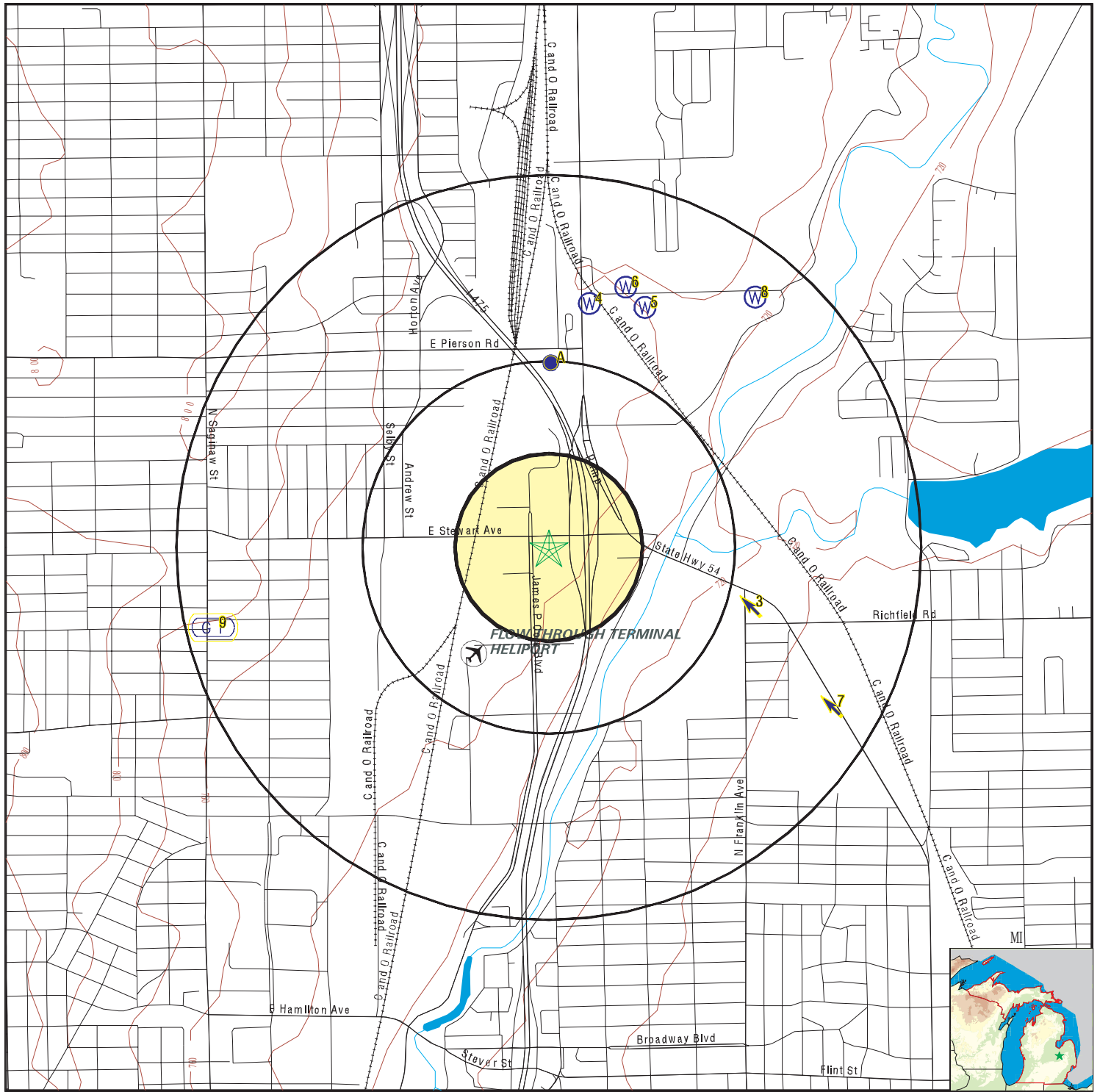
MAP ID	WELL ID	LOCATION FROM TP
<u>No PWS System Found</u>		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	MI20069550	1/2 - 1 Mile North
5	MI20072410	1/2 - 1 Mile NNE
6	MI20072615	1/2 - 1 Mile NNE
8	MI20069549	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 2616104.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- 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

SITE NAME: MLC - Flint Flowthrough
 ADDRESS: 4002 James Cole Blvd
 Flint MI 48505
 LAT/LONG: 43.0536 / 83.6757

CLIENT: LFR Inc
 CONTACT: Morgan Vogt
 INQUIRY #: 2616104.2s
 DATE: October 16, 2009 12:51 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1 North 1/4 - 1/2 Mile Higher	Site ID:	250013	AQUIFLOW	34459
	Groundwater Flow:	NE		
	Shallowest Water Table Depth:	17		
	Deepest Water Table Depth:	23		
	Average Water Table Depth:	Not Reported		
	Date:	05/1987		

A2 North 1/2 - 1 Mile Higher	Site ID:	250146	AQUIFLOW	28239
	Groundwater Flow:	Not Reported		
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	12		
	Date:	06/1994		

3 ESE 1/2 - 1 Mile Lower	Site ID:	250418	AQUIFLOW	28360
	Groundwater Flow:	NW		
	Shallowest Water Table Depth:	13		
	Deepest Water Table Depth:	15		
	Average Water Table Depth:	Not Reported		
	Date:	11/1990		

4 North 1/2 - 1 Mile Lower		MI WELLS	MI20069550
---	--	-----------------	-------------------

Wellid:	25000003335	Import id:	25087729002
County:	Genesee	Township:	Genesee
Town range:	08N 07E	Section:	29
Owner name:	EDGAR CORNWELL		
Well addr:	Not Reported		
Well depth:	241		
Well type:	Test well		
Wssn:	0		
Well num:	Not Reported	Driller id:	0
Const date:	2009-12-05 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:	43.0630837495		
Longitude:	-83.6735381892		
Methd coll:	Interpolation-Map		
Elevation:	750		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	748	Elev dif:	2
Elev miv:	750	Aq code:	Not Reported
Aq flag:	Lithology Problem (Drift under Rock)	Not 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:	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:	40	Pct maq 2:	0
Pct cm 2:	60	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:	75	Pct maq 4:	0
Pct cm 4:	25	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

5

NNE

1/2 - 1 Mile
Lower

MI WELLS

MI20072410

Wellid:	25000007296	Import id:	Not Reported
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	29
Owner name:	James Wilson		
Well addr:	1840 Groveland Dr.		
Well depth:	180		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1886
Const date:	2001-04-20 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	130		
Screen frm:	0		
Screen to:	0		
Swl:	25		
Test depth:	160		
Test hours:	2		
Test rate:	35	Test methd:	Air
Grouted:	1	Pmp cpcity:	10
Latitude:	43.06292753		
Longitude:	-83.6705898		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	738	Elev dif:	738
Elev miv:	738	Aq code:	Rock Well
Aq flag:	Not Reported	Pct aq:	49
Pct aq d:	11	Pct aq r:	76
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	43
Pct cm d:	69	Pct cm r:	24
Pct pcm:	8	Pct pcm d:	20
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	75
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:	40
Pct maq 1:	0	Pct cm 1:	60
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:	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:	N	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

6
NNE
1/2 - 1 Mile
Lower

MI WELLS MI20072615

Wellid:	25000007543	Import id:	Not Reported
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	29
Owner name:	Lumm Masonry		
Well addr:	1820 Groveland		
Well depth:	180		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1886
Const date:	2002-01-10 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	130		
Screen frm:	0		
Screen to:	0		
Swl:	30		
Test depth:	160		
Test hours:	2		
Test rate:	40	Test methd:	Air
Grouted:	1	Pmp cpcity:	10
Latitude:	43.06371723		
Longitude:	-83.67160804		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	738	Elev dif:	738
Elev miv:	738	Aq code:	Rock Well
Aq flag:	Not Reported	Pct aq:	29
Pct aq d:	15	Pct aq r:	37
Pct maq:	6	Pct maq d:	0
Pct maq r:	9	Pct cm:	60
Pct cm d:	69	Pct cm r:	55
Pct pcm:	6	Pct pcm d:	15
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	65
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:	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:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	50	Pct maq 2:	0
Pct cm 2:	50	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	50
Pct pcm 3:	50	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

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:	N	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

7 ESE 1/2 - 1 Mile Higher	Site ID: 250089 Groundwater Flow: NW Shallowest Water Table Depth: 13 Deepest Water Table Depth: 15 Average Water Table Depth: Not Reported Date: 11/27/1991	AQUIFLOW 28240
--	---	-----------------------

8 NE 1/2 - 1 Mile Lower		MI WELLS MI20069549
Wellid: 25000003334 County: Genesee Town range: 08N 07E Owner name: Not Reported Well addr: 1936 GROVELAND ST. Well depth: 160 Well type: Household Wssn: 0 Well num: Not Reported Const date: 1985-05-08 00:00:00.000 Case dia: 5 Case depth: 78 Screen frm: 0 Screen to: 0 Swl: 15 Test depth: 80 Test hours: 2 Test rate: 20 Grouted: 1 Latitude: 43.0633302346 Longitude: -83.6647491484	Import id: 25087729001 Township: Genesee Section: 29 Driller id: 1710 Case type: PVC Plastic Test methd: Unknown Pmp cpcity: 0	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	730		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	728	Elev dif:	2
Elev miv:	730	Aq code:	Rock Well
Aq flag:	Not Reported	Pct aq:	40
Pct aq d:	9	Pct aq r:	52
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	60
Pct cm d:	91	Pct cm r:	48
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:	44
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:	20
Pct maq 1:	0	Pct cm 1:	80
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:	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	R		
Hit swl:	F		
Athk2:	0		
Horiz Conduct:	.0001		
Vert Conduct:	.0001		
T2:	.0024		
D50plek:	.00032		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Test Type	Zip	Floor	Stop Date	Can 1 Res pCi/L	Can 1 Error	Can 2 Res pCi/L	Can 2 Error
Random	48505	0	12/9/87	0.7	21.3%		
Random	48505	0	4/13/88	2.7	11.3%		

State Database: MI Radon

Radon Test Results

Zip	Less than sign	Pci/L
48505		0.70
48505	<	0.30
48505		1.00
48505	<	0.30
48505		1.00
48505		0.60
48505		2.60
48505	<	0.30
48505		1.60
48505		0.50
48505		1.50
48505	<	0.30
48505		0.70
48505		0.50
48505	<	0.30
48505	<	0.30
48505		1.50
48505		3.30
48505		2.60
48505		0.80
48505	<	0.30
48505		0.80
48505		1.80
48505		1.40
48505		0.80
48505	<	0.30
48505		2.60
48505		0.90
48505		2.50
48505	<	0.30
48505		1.30
48505		0.50
48505		

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON**

AREA RADON INFORMATION

	<	0.30
48505		2.30

Federal EPA Radon Zone for GENESEE 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 Zip Code: 48505

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Michigan Department of Natural Resources

Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551

Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of 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

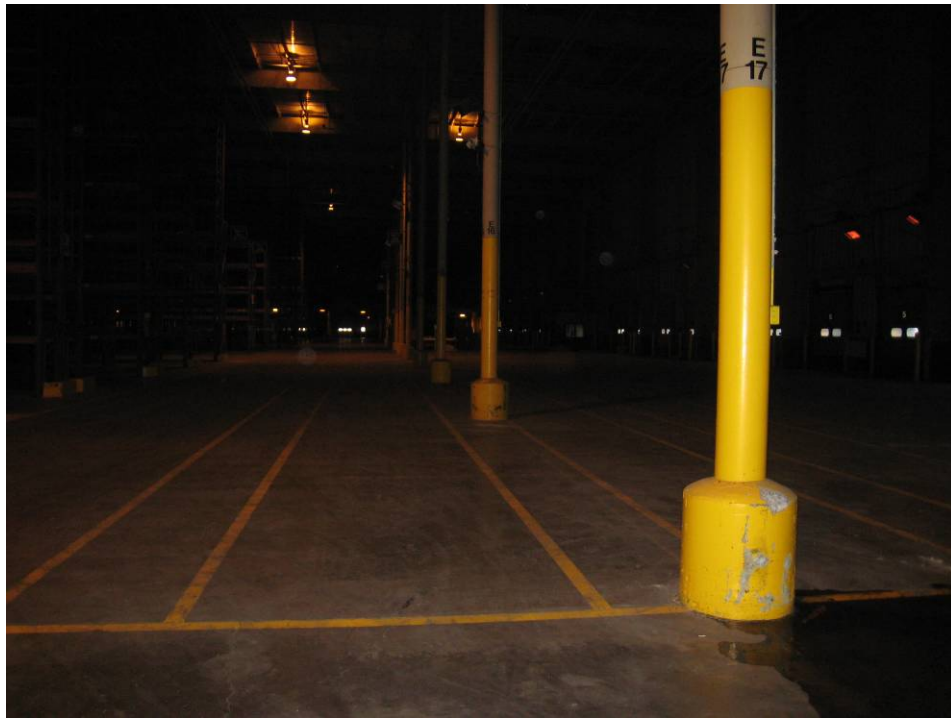
Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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APPENDIX D

Photograph Log



Photograph #1

Description of Photograph:

View of the inside of the warehouse building at the north side of the Site.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #2

Description of Photograph:

View of the office area within the warehouse building on the Site.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #3

Description of Photograph:

View of the southern parking lot at the Site.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #4

Description of Photograph:

View of the boilers and boiler house on the south side of the Site.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #5

Description of Photograph:

View of the interior of the boiler house on the south side of the Site.

Site Location:

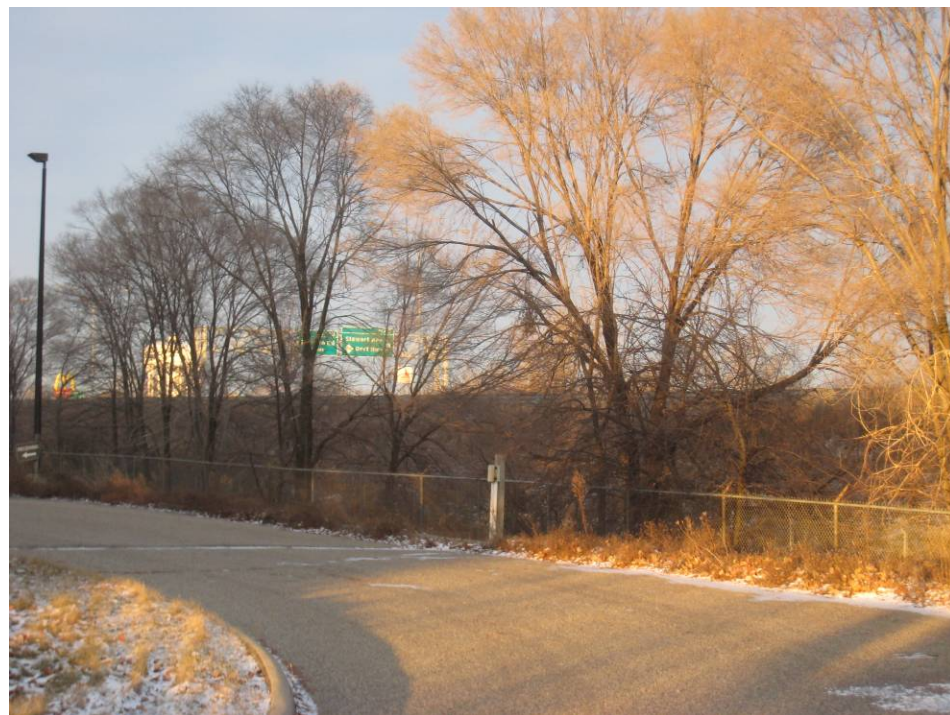
4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #6

Description of Photograph:

View of the easterly adjacent property.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #7

Description of Photograph:

View of the east side of the Site warehouse facing north.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #8

Description of Photograph:

View of the north side of the warehouse facing west.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #9

Description of Photograph:

View of the parking lot area on the north side of the Site.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #10

Description of Photograph:

View of the west side of the Site warehouse facing south.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #11

Description of Photograph:

View of the guard shack located on the southwest portion of the Site.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #12

Description of Photograph:

View of the transformer units located near the southwest corner of the Site warehouse.

Site Location:

4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:

Andrea Rayner

Date of Photograph:

December 16, 2009



Photograph #13

Description of Photograph:
View of the westerly adjacent property.

Site Location:
4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:
Andrea Rayner

Date of Photograph:
December 16, 2009



Photograph #14

Description of Photograph:
View of the northerly adjacent property.

Site Location:
4002 James Cole Blvd.
Flint, Michigan

Photograph Taken By:
Andrea Rayner

Date of Photograph:
December 16, 2009

APPENDIX E

Qualifications of Environmental Professionals

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

MORGAN L. VOGT

Senior Staff Geologist

*Soil and Groundwater Investigations
Underground Storage Tank Removal Oversight
Phase I and Phase II Environmental Site Assessments
Site Remediation
NEPA Compliance
Asbestos Building Inspector*

Ms. Vogt is a Senior Staff Geologist in LFR Inc.'s (LFR) Elgin, Illinois office. She has comprehensive experience in the field of geology and environmental geosciences, including Phase I and Phase II Environmental Site Assessments (ESAs), soil and groundwater monitoring, oversight of underground storage tank (UST) removal, site remediation including soil removal and soil vapor extraction (SVE) systems, National Environmental Policy Act (NEPA) compliance on roadway and water system construction and improvements, and inspecting properties for suspect asbestos-containing building materials (ACBMs).

EDUCATION

New Mexico State University: M.S. Geology, 2005

Truman State University: B.A. Biology, 2002

REPRESENTATIVE EXPERIENCE

- **Phase I Environmental Site Assessments**
Performed over 80 Phase I ESAs for various commercial clients and government agencies in Illinois, Indiana, Missouri, Michigan, Ohio, Tennessee, Georgia, West Virginia, New Mexico, Texas, and Arizona. Properties have included vacant properties, agricultural properties, commercial/retail properties, government buildings, and industrial/manufacturing plants. Phase I ESAs completed in accordance with the United States Environmental Protection Agency (USEPA) All Appropriate Inquiries (AAI) rule and the American Society for Testing and Materials (ASTM) E-1527-05 standard.
- **Phase II Environmental Site Assessments**
Managed Phase II sampling projects for various clients in Illinois, Indiana, New Mexico, Texas, and Arizona. Soil and groundwater investigations have been completed on vacant properties, agricultural properties, commercial/retail properties, industrial/manufacturing plants, and government properties. The investigations were completed to assess concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), concentrations of arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver, polychlorinated biphenyls (PCBs), and herbicides/pesticides.
- **Underground Storage Tank Investigations**
Oversight of the removal of USTs at sites in Illinois, New Mexico, Texas, and Arizona. Collected soil and groundwater confirmation samples as needed to demonstrate compliance with applicable regulations.

- **Soil and Groundwater Monitoring**

Oversaw the installation of monitoring wells at various sites in Illinois, Indiana, New Mexico, Texas and Arizona, including collecting soil samples, documenting soil boring lithology, drafting soil boring diagrams and monitoring well completion diagrams, and writing minimum site assessment reports. Performed groundwater monitoring, including collecting water samples, measuring depth to groundwater, gauging wells for non-aqueous phase hydrocarbon liquid (NAPL), drafting potentiometric surfaces and contaminant maps, and writing groundwater monitoring reports.

- **Site Remediation**

Experience performing SVE pilot testing, drafting conceptual remediation plans for SVE systems, and monitoring SVE systems at various sites in New Mexico. Additionally, oversaw the removal of contaminated soil and collected confirmatory soil samples at various sites in Illinois, New Mexico, Texas and Arizona.

- **NEPA Compliance**

Experience performing Federal agency consultations for NEPA compliance on environmental engineering projects in New Mexico and Arizona, such as roadway and water system construction and improvements. Wrote numerous NEPA reports for various funding agencies, including the United States Environmental Protection Agency (USEPA), the United States Department of Agriculture Rural Development (USDA RD), and the Border Environment Cooperation Commission (BECC).

- **Asbestos Inspections**

Performed asbestos inspection surveys in conjunction with Phase I ESAs at various sites in Illinois, Indiana, Missouri, Michigan, Ohio, Tennessee, Georgia, West Virginia, New Mexico, Texas, and Arizona. Performed site walk-through of multiple buildings in Illinois and Indiana to identify and collect suspected ACBMs, along with logging their locations, conditions, and quantities.

CERTIFICATIONS

40-Hour OSHA Health and Safety Training per 29 CFR 1910.120

24-Hour Asbestos Building Inspector per EPA 40 CFR 763

PROFESSIONAL HISTORY

LFR Inc., Senior Staff Geologist, 2008 – Present

Watterson Environmental Group, Environmental Specialist, 2008

Souder, Miller & Associates, Staff Geoscientist, 2006 – 2008

New Mexico State University, NSF GK-12 Director, 2005 – 2006

New Mexico State University, NSF GK-12 Fellow, 2004 – 2005

New Mexico State University, Geology Teaching Assistant, 2003 – 2004

Institute of Tectonic Studies, Research Assistant, 2002 – 2003

Argonne National Laboratory, Waste Management Intern, 1998 – 2002