

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
DELTA ENGINE PLANT 5
2901 SOUTH CANAL ROAD
LANSING, MI**

PREPARED FOR:

GENERAL MOTORS CORPORATION

ENCORE ENVIRONMENTAL CONSORTIUM, LLC

DATE: OCTOBER 4, 2004

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Project Manager

(Title)

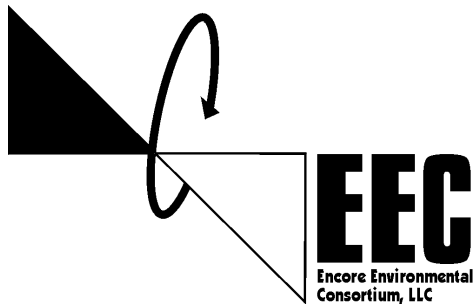


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EXECUTIVE SUMMARY

Encore Environmental Consortium, LLC (EEC) has conducted a Phase I Environmental Site Assessment (ESA) of the General Motors Corporation (GM) Delta Engine Plant located at 2901 Canal Road in Lansing, Eaton County, Michigan (herein referred to as “the Site”). The purpose of the Phase I ESA was to identify and document the current and historical environmental conditions of the Site and the presence of substances which indicate an existing, past, or potential adverse environmental impact to the air, soil, groundwater, or surface waters as a result of operations on the Site and adjacent and surrounding properties, and which indicate that further investigation may be necessary to evaluate potential environmental liabilities associated with the Site.

This Phase I ESA was performed in general accordance with the American Society of Testing and Materials (ASTM) E 1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and other client-specified requirements. The investigation was intended to identify Recognized Environmental Conditions (RECs) as defined by the ASTM E 1527-00 Standard.

For the purposes of this Phase I ESA, RECs have been separated into the following categories:

- General Property RECs - locations of potential or verified environmental conditions;
- Process Specific RECs - locations of potential or verified environmental conditions due to process sumps, trenches, piping, or other structures that have not been decommissioned and can not be inspected due to either lack of accessibility or due to the fact that the structure was filled with liquids or other materials that preclude visual inspection.

A. GENERAL PROPERTY RECs

This assessment has revealed evidence of the following General Property RECs in connection with the Site:

- A previous Phase I ESA of the Site provided a brief summary of an ethylene glycol spill, which was reported in the sidewalk heating system in July 1992. The release involved the loss of approximately 110 gallons of ethylene glycol. Recorded response actions reportedly included the removal of approximately 42 cubic yards of impacted soil, and subsequent replacement of ethylene glycol with propylene glycol. The Site contact provided one report and associated laboratory analytical results documenting soil sampling at the ethylene glycol release area. However, the report was very brief and lacked information regarding the nature of the release, remedial effort details, confirmation sampling locations, or if closure activities were anticipated. Therefore, the location of the spill is considered an REC.
- Storm water runoff from the two large parking lots on the west side of the Site is collected in catch basins and conveyed to a retention pond located to the north of the main production buildings (Buildings 501/502). Water from the north retention pond is pumped into a ditch located to the east of the pond using pumping equipment housed in Building 568. Water from the ditch is routed to a second retention pond located to the south of the wastewater treatment plant (WWTP; Building 561) via underground piping. The south retention pond discharges to Holly Drain, which is located to the east of the Site. According to the Site contact, a release occurred in approximately 1985 that resulted in a discharge of diesel fuel into the storm water management system. The release originated from a ruptured saddle tank on a semi tractor. Diesel fuel spilled on paved surfaces and entered a storm water catch basin and discharged into the south retention pond. The gate valve at the retention pond discharge point was promptly closed and the diesel

fuel was collected from the surface of the pond using absorbent material. The Site contact is not aware of any type of lining within either retention pond, nor is he aware of any additional investigation of the diesel fuel release or periodic maintenance pond dredging activities. Based on the potential impact to both ponds and the connecting ditch from parking lot runoff (automobile fluids) over a twenty-year period, as well as impact to the south pond from the diesel fuel release, the north and south storm water retention ponds and the connecting ditch are considered RECs.

B. PROCESS SPECIFIC RECs

This assessment has revealed evidence of the following Process Specific RECs in connection with the Site:

- A WWTP was operated at the Site in Building 561 to treat non-hazardous process wastewater prior to discharging to the Delta Township municipal sanitary sewer system. Numerous sumps, trenches, treatment tanks, and process piping runs are present within the Site WWTP. No releases from the WWTP were documented, and no evidence of a release was observed during the Site reconnaissance. However, the physical integrity of the numerous sumps, trenches, treatment tanks, and process piping runs present within the Site WWTP was not able to be verified, and there was no indication that previous investigations had been conducted in this area. Therefore, the WWTP is considered a REC.
- Process wastewater containing soluble oil based coolants and oil was conveyed from Buildings 501/502 and other locations to the WWTP for treatment via approximately 3,000 linear feet of underground piping. The process wastewater lines were purged as a part of initial decommissioning activities, though residuals likely exist within the piping. The integrity of the piping is not currently known. Therefore, the piping is considered an REC.
- Coolant recovery trenches are present in areas where wet machining was performed in Buildings 501/502. These trenches collect the coolant after use, and transfer used coolant to coolant recycling stations located in the basements and in areas throughout the manufacturing area. Due to the presence of residual coolants, the trenches could not be thoroughly inspected to evaluate their physical integrity. Therefore, the coolant recovery trenches are considered RECs.
- The harpoon system, which collected and transferred metal cutting swarf from the dry machining area to reclamation bins located at the salvage dock area, consists of several trenches and approximately twenty hydraulic rams. Approximately 84,000 square feet of trenches are included in the Harpoon system in Buildings 501/502. The trenches, as well as the hydraulic rams and associated hydraulic oil, aboveground storage tank (AST), and piping, have been drained, but have not been cleaned and purged. Metal swarf and oily residue were present in the trenches obscuring visual observation of the integrity of the concrete trench walls and base. Therefore, the harpoon system trenches are considered RECs.
- Site personnel indicated that a former paint booth was located within Buildings 501/502, and that the paint booth used a water spray curtain and collection pit to contain paint overspray. The former spray booth was decommissioned (date unknown) and the collection pit was filled to floor grade. The Site contact did not know details of waste handling and disposal practices associated with the former spray paint booth and did not know the location of the former structures within Buildings 501/502. The former paint spray booth and collection pit are considered RECs.
- Three basement areas exist within Buildings 501/502 occupying an area of approximately 30,000 square feet. Some concrete floor staining and minor concrete deterioration was observed within

the basements. The basements contain sumps and trenches which formerly collected coolants and other oils associated with the coolant recovery systems located in the basements. The integrity of the floors, sumps and trenches is not currently known. Therefore, the basement floors, sumps and trenches are considered RECs.

- A below grade sump exists in the Quality Assurance/Quality Control (QA/QC) lab located in Building 501 that was used to collect and pump laboratory waste to the WWTP. The integrity of the sump is not known. Therefore, the below grade sump is considered a REC.
- Oily chips, scrap parts, and oily debris were collected in the salvage dock area on the north end of Buildings 501/502. The salvage dock area contains floor drains (connected to the WWTP) in the train well area, salvage metal bins, and a paint booth and cleaning booth. The concrete floors of the salvage dock area appeared to be in good physical condition with no obvious damage, cracks or holes. However, a 1999 subsurface investigation indicated non-regulated oils (vegetable or synthetic) were observed beneath the floor slab when investigating a suspected process sewer line leak, and no integrity issues associated with the sewer line were identified. Although oils and elevated concentrations of TPH remained beneath the floor slab, TPH is not regulated by Michigan and remedial activities were not required by MDEQ at the time. The presence of the substances beneath the floor slab in this area with no verified source may indicate potential floor integrity issues. Therefore, the salvage dock area is considered an REC.

C. HISTORICAL RECS

This assessment has revealed evidence of the following historical RECs in connection with the Site:

- Documented releases from two former underground storage tanks (USTs #12 and #13) were identified at the Site. UST #12 was a 5,000 gallon premium unleaded gasoline tank that supplied a vehicle refueling dispenser pump and a day fuel storage tank. The day tank supplied gasoline to four engine test cells located within Building 501. The release from UST #12 was reported October 15, 2001. Following removal of the UST and day tank, approximately 40 cubic yards of impacted soil were removed and properly disposed. Detected concentrations of gasoline constituents were below the Michigan Department of Environmental Quality (MDEQ) Part 213 Soil and Groundwater Tier I Risk-Based Screening levels (RBSLs) for Residential and Commercial Standards. A closure report was submitted to the MDEQ in November 2001. UST #13, formerly located to the northeast of the WWTP, was a 5,000 gallon tank that stored a product containing 54 percent petroleum naphtha. The release from UST #13 was reported in September of 1990. Laboratory analytical results indicated the presence of xylenes and total petroleum hydrocarbons (TPH) in soil and methylene chloride in groundwater. A previous Phase I ESA of the Site described investigations of UST #13 performed by ABB Environmental Services, Inc. (ABB). ABB reportedly concluded that the site can be closed because the data supports the conclusion that “groundwater has not been impacted at the site, and with the exception of the excavation water sample, all samples were below Type B criteria”. The previous Phase I ESA report further described that GM received documentation from the Michigan Department of Natural Resources in January 1995 that stated that the release had been remediated to Type B cleanup levels. Releases at former USTs #12 and #13 meet the ASTM definition of historical RECs.

D. OTHER ENVIRONMENTAL ISSUES

In addition to the ASTM standard, this assessment evaluated other client-specified criteria for the Site. This assessment has revealed the following other environmental issues:

- According to Site personnel, there are no pending hazardous waste violations relevant to the Site. No RECs were noted in association with hazardous waste at the Site. The Site is currently categorized as a medium-priority RCRA Corrective Action facility, based on the fact that the Site was previously an interim status hazardous waste Treatment, Storage and Disposal (TSD) facility. The Site had initiated the licensing process as a TSD in the 1980s for a hazardous waste container storage area and two 30,000-gallon USTs used to store waste oily sludge. The container and tank storage areas were closed as greater than 90-day accumulation facilities in 1991. According to Michigan Department of Environmental Quality (MDEQ) officials, there are no current or anticipated corrective actions associated with the two storage areas. However, there is potential corrective action liability in the future.
- Known and suspected asbestos containing materials (ACMs) have been identified at the Site. Based on previous survey results, asbestos abatement would only be required for the demolition or remodeling of the Site. EEC did not observe evidence of damaged ACM at the Site. Therefore, no RECs were noted in association with ACMs. However, the confirmed presence of ACMs identified during previous investigations is considered a Site development issue.
- A lead-based paint survey was not conducted as part of this Phase I ESA. However, a lead-based paint survey conducted by Barnes Engineering, Inc. during March 2001. As a result of the survey, a number of paints at the Site were found to contain lead at concentrations ranging from 0.01 milligrams per cubic centimeter to 4.5 milligrams per cubic centimeter. Paints containing lead at the Site included 18 out of 18 colors identified in the main plant and office, 15 out of 18 colors identified in the WWTP, 4 out of 4 colors identified in the storm water pump house, 7 out of 7 colors identified in the powerhouse, and 3 colors identified in the electrical switch building. The United States Environmental Protection Agency (EPA) and Department of Housing and Urban Development (HUD) define lead-based paint hazardous if it exceeds 1.0 milligrams per cubic centimeter. Forty-two samples exceeded 1.0 milligrams per cubic centimeter. Based on EEC's reconnaissance of the Site (May 2004), to the extent accessible painted surfaces at the Site appeared to generally remain in good condition. Therefore, no RECs were noted in association with lead-based paint at the Site. However, the confirmed presence of lead-based paint is considered a Site development Issue.
- A wetland survey or delineation was not conducted for this Phase I ESA. The EDR report indicated that 2002 National Wetlands Inventory (NWI) data for the Site and surrounding area was not available from the U.S. Fish and Wildlife Service. Site personnel stated that regulated wetlands are not known to exist on the Site. EEC observed three relatively small potential wetland areas (cattails and willows) on the northern vacant portion of the Site at the time of the Site reconnaissance. Each of the three areas appeared to be no larger than approximately 900 square feet. The nearest surface water body is Holly Drain, located adjoining the eastern boundary of the Site. No RECs were noted in association with wetland areas. However, the presence of small isolated potential wetland areas on the northern vacant portion of the Site may present a Site Development issue.

1.0 INTRODUCTION

A Phase I Environmental Site Assessment (ESA) has been performed of the General Motors Corporation (GM) Delta Engine Plant located at 2901 Canal Road in Lansing, Eaton County, Michigan (herein referred to as “the Site;” see Figures 1, 2, and 3 in Appendix A).

The purpose of this Phase I ESA was to identify and document the current and historical environmental conditions of the Site and the presence of substances which indicate an existing, past, or potential adverse environmental impact to the air, soil, groundwater or surface waters as a result of operations on the Site and adjacent and surrounding properties, and which indicate that further investigation may be necessary to evaluate potential environmental liabilities associated with the Site. The investigation was also intended to identify Recognized Environmental Conditions (RECs) as defined by the ASTM E 1527-00.

The ASTM standard defines an REC as *“the presence or likely presence of any hazardous substances or petroleum products on a property (Site) under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on a 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. Conditions determined to be de minimis are not recognized environmental conditions.”*

For the purposes of this Phase I ESA, RECs have been separated into the following categories:

- General Property RECs - locations of potential or verified environmental conditions;
- Process Specific RECs - locations of potential or verified environmental conditions due to process sumps, trenches, piping, or other structures that have not been decommissioned and can not be inspected due to either lack of accessibility or due to the fact that the structure was filled with liquids or other materials that preclude visual inspection.

The ASTM standard defines historical RECs as *“environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently. If a past release of any hazardous substances or petroleum products has occurred in connection with the property and has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidenced by the issuance of a no further action letter or equivalent), this condition shall be considered an historical recognized environmental condition.”*

The conclusions regarding the potential impact of RECs on the Site are intended to help the client and other users of the report evaluate the “business environmental risk” associated with the Site, as defined in the ASTM E 1527-00 Standard. The ASTM Standard defines “business environmental risk” as *“a risk which can have a material environmental or environmentally-driven financial impact on the business associated with the current or planned use of a parcel of commercial real estate.”*

1.1 SCOPE OF WORK

The following scope of work was undertaken, in accordance with ASTM Phase I ESA Standard requirements and client-specified requirements:

- Task 1 A Site reconnaissance was conducted to visually and physically observe the Site in an effort to obtain information suggesting Recognized Environmental Conditions of potential concern, including:
- Observing and recording the physical setting of the Site.
 - Observing and documenting the property and land use, including abutting and surrounding properties.
 - Interviewing the current property owner/tenants/maintenance chief to obtain information on current and past operations that may have led to a release of oil, gasoline, solvents, or hazardous material(s) to the soil or ground water and information regarding the presence of underground storage tanks (USTs), hydraulic lifts, asbestos, lead-based paint, polychlorinated biphenyls (PCBs), etc. onsite.
 - Observing and documenting the Site conditions that may be indicative of past and present releases and practices, including taking color photographs showing the general property and surrounding areas.
 - Observing and documenting the presence and/or absence and the condition and apparent regulatory compliance status of prior and current aboveground storage tanks (ASTs), USTs, chemical storage areas, hydraulic lifts, septic fields, drainage systems, oil/water separators, central vehicle fluid (i.e., oil, grease, transmission fluid, etc.) dispensing systems, etc., including taking color photographs showing the location and condition of these observed areas.
 - Observing and recording the presence or absence of chemical substances and/or debris onsite, including the number of drums/containers, size, estimated quantity, and a description/identification of the contents where possible.
- Task 2 A Site history review was performed to evaluate previous ownership and land use including:
- Local geology/hydrogeology;
 - Groundwater well inventory;
 - Groundwater use;
 - Interviews with local officials from the fire marshal's office, town or city engineer's and assessor's office, etc.;
 - Review of information from town or city historical societies, libraries, etc.; and
 - Review of historic aerial photographs, Sanborn or other fire insurance maps, etc.
- Task 3 An electronic database search report was generated for the Site by Environmental Data Resources, Inc. (EDR) to complete the environmental records review. The database search was used to identify properties that may be listed in the referenced Agency records, located within the ASTM-specified search radii indicated below. The databases reviewed included, but were not limited to:
- | <u>Database</u> | <u>Search Radius</u> |
|-------------------|----------------------|
| • NPL sites:..... | 1 mile |

- CERCLIS sites:..... 0.5 mile
- CERCLIS NFRAP sites Site and Adjoining
- Federal ERNS: Site only
- RCRA non-CORRACTS TSD facilities: 0.5 mile
- RCRA CORRACTS TSD facilities: 1 mile
- RCRA Generators:..... Site & Adjoining
- State Hazardous Waste Sites: 1 mile
- Registered Underground Storage Tanks: Site & Adjoining
- State Landfills and Solid Waste Disposal Sites: 0.5 mile
- State Leaking Underground Storage Tanks: 0.5 mile

A summary of information is provided for each of the above-listed databases in Section 2.3.1 of this report. The complete environmental database report is provided in Appendix D.

The database search was supplemented with inquiries with appropriate regulatory agencies and municipalities regarding the Site, and to the extent practicable, adjacent properties. Inquiries were made with regulatory agencies with regard to basic regulatory compliance issues for the subject property, such as Site drainage, permits, etc.

Task 4 A preliminary asbestos, PCB, lead-based paint, and radon review was performed based on: observations of the Site reconnaissance and property location, the age(s) of the buildings, building materials, discussions with the owner/tenant/operator and the local utility company, and the results of the database search discussed in Task 3.

Task 5 The findings of the ESA have been documented in this report, which presents a professional opinion as to the environmental disposition of the Site with regard to the presence of Recognized Environmental Conditions or other environmental issues.

1.2 EXCEPTIONS AND DEVIATIONS

1.2.1 EXCEPTIONS

The GM Site contact could not provide access to the interior of Building 560 and Building 563 during the Site reconnaissance. No other exceptions to ASTM E1527-00 Standard were taken during this Phase I ESA.

1.2.2 DEVIATIONS

Deviations from the ASTM Standard 1527-00 included addition of several client-specified, non-ASTM considerations.

- Preliminary review of potential for radon gas presence and accumulation;
- Preliminary Asbestos-Containing Material (ACM) evaluation;
- Preliminary Lead-Based Paint presence evaluation;
- Preliminary Wetlands Identification;
- Preliminary Flood Plain Identification; and
- A summary of environmental compliance through review of files, and preliminary observations regarding potential environmental regulatory compliance issues. Subject matters included air emissions and permitting, wastewater, storm water, waste management,

storage tanks, toxic and hazardous substances, and PCBs. The summary compiled in this assessment did not represent a full regulatory compliance audit.

Evaluation of the Site for these criteria was performed for the purpose of providing a general indication of potential problems; this assessment does not serve as a substitute for radon/ACM/lead paint testing, wetlands delineation or a regulatory compliance audit.

2.0 ASSESSMENT FINDINGS

Information obtained from the sources and activities described in Section 1.0 are presented in the following section. Information supporting the observations in this report is provided in the Appendices. A Site Location, Site Map, and Surrounding Property Map are provided in Appendix A. A list of contacts used to prepare this Phase I ESA report is provided in Appendix B. Photographic documentation is provided in Appendix C. The environmental database report is provided in Appendix D. Historical information is provided in Appendix E. A reference list of previous reports made available to EEC is included in Appendix F. Resumes of the EEC personnel who prepared this ESA are provided in Appendix G.

2.1 SITE RECONNAISSANCE

On May 7, 2004, May 10 through 14, 2004 and August 30, 2004, EEC completed the Site reconnaissance. The Site reconnaissance included an inspection of the Site and its structures, review of relevant Site records made available to EEC, visual observations of adjacent properties as viewed from the Site and surrounding roadways, and interviews with individuals associated with the Site. Site representatives accompanied EEC during the Site reconnaissance. Site personnel provided information regarding current and former Site activities and historical Site uses.

2.1.1 SITE LOCATION AND DESCRIPTION

The General Motors Corporation (GM) Delta Engine Plant is located at 2901 South Canal Road southwest of Lansing, Michigan (refer to Figure 1 for the general location). The Site, constructed in 1980, was principally used as an automotive engine manufacturing and assembly plant. Automotive engine manufacturing and assembly operations ceased in 2001, and the Site is currently inactive. GM retained ownership of the Site during the time frame when EEC conducted its Phase I ESA activities.

The Site includes nine buildings totaling approximately 1,127,641 square feet, on approximately 281 acres. Principle improvements at the Site include a main manufacturing building; a wastewater treatment plant (WWTP); a compressor building; a waste storage facility; paved entrance, egress roads and Site parking; an aboveground storage tank (AST) farm and related control house; two storm water detention basins; two rail sidings; and several smaller structures including three pump houses/buildings.

The following is a listing of building numbers and primary historical uses:

Building Number	Historical (1980-2001) Building Use	Square Footage
501	Main manufacturing/assembly, offices	654,975
502	Main manufacturing/assembly, offices	431,120
560	Electrical substation switchgear	4,500
561	WWTP	20,736
563	Fire suppression pump house	1,440
565	Compressor building	15,000
567	North tank farm control house	550
566	Combustible/flammable and waste storage	2,925
568	North retention pond pump house	730
580	Gate house	165

An electrical substation is present on the east central side of the Site. Although the property where the substation is located is part of the Site, the equipment is owned by the Lansing Board of Water and Light and could not be accessed for inspection during the Site reconnaissance. However, the electrical substation was visually observed from outside of the perimeter fence. Also, some of the switchgear equipment inside of Building 560 is owned by the Lansing Board of Water and Light.

With the exception of two-story office and engineering areas located in the central and northwest portion of Building 501, Site buildings are one-story structures. A basement level is present in the WWTP and three basements are located in Buildings 501/502. The basements located in Buildings 501/502 each house a large freight elevator, trenches and sumps, and machining coolant reprocessing equipment.

Construction of the existing Site building occurred in 1980. Production commenced in 1981 and continued through 2001. Activities at the Site included the machining (wet and dry) and assembly of GM engines for shipment to other GM facilities. The Site received pre-cast engine blocks, heads, crankshafts, and other engine components from suppliers. Iron and aluminum components were machined, bored, and milled to specifications prior to final assembly and shipment.

Historically, the Site and surrounding properties were primarily agricultural, residential and wooded until at least 1974. The Site has been used for industrial purposes since 1981, and some of the surrounding properties have been used for light industrial, commercial and/or residential purposes since 1974. GM constructed a diesel engine manufacturing and assembly (Plant 5) on the Site in approximately 1980 and diesel engines were produced on Site through 1985. The production of diesel engines was discontinued in 1986 and the Site was converted to the production of four-cylinder gasoline engines, which were produced from 1987 through 2001 when operations ceased at the Site. The only ongoing use of the Site includes the temporary storage of new Cadillac automobiles in the parking lots located on the southwestern portion of the Site.

The Site is accessed from South Canal Road through three entrances along the west boundary of the Site. The Site can also be accessed from Creyts Road to the east through the entrance at the northeast portion of the Site near Building 560. A railroad siding also exists on the Site, extending from the southeast corner of the Site to the northeast and southeast corners of Buildings 501/502. Refer to Figures 1 through 2 in Appendix A for additional Site features and information. Photographs of the Site are included in Appendix C.

2.1.2 ADJACENT PROPERTIES

A driving tour of adjacent properties was conducted to identify evident RECs that may adversely affect the Site. The tour was conducted from the Site and public rights-of-way. Adjacent properties are shown on Figure 3 in Appendix A.

Mt. Hope Road and residential properties are located immediately north of the Site. Wooded property, a house and Old Dominion Freight are located to the east of the Site. Vacant property, Fairall Trucking (truck repair), Michigan Farm Bureau Warehouse Services, Dyer Well Drilling and Millett Highway exist to the south of the Site. A Board of Water and Light power plant exists south of Millett Highway. Canal Road, Sherriff-Goslin Roofing Company, Land Marc Construction, Central Dairy Supply, Spartan Metal Fabricating, vacant property and agricultural property exist to the west of the Site.

Environmental issues posing potential impacts to the Site were investigated based on visual observation or publicly available documentation for adjacent and nearby properties. EEC reviewed information on the above mapped properties based on information provided in EDR report (refer to Section 2.3.1), respective distances from the Site, inferred hydrological relationships with respect to the Site, current

status of listed properties (open or closed), and the nature of any reported releases or violations. Based on available information, none of the adjacent properties appear to represent RECs relative to the Site.

2.1.3 UNDERGROUND STORAGE TANKS

According to Site personnel, no underground storage tanks (USTs) currently exist at the Site. During the Site reconnaissance, EEC observed no evidence indicating the presence of USTs at the Site. Based on the UST database listing contained within the EDR database search (Appendix D), a summary of USTs that historically have been at the Site is as follows:

UST #	Location	Contents	Date Installed	Date Removed
1	North Tank Farm	Spare/never used	1981	Sept 1993
2	North Tank Farm	Spare/never used	1981	Sept 1993
3	North Tank Farm	Spare/never used	1981	Sept 1993
4	North Tank Farm	Hydraulic Oil	1981	Sept 1993
5	North Tank Farm	Lube Oil	1981	Sept 1993
6	North Tank Farm	Diesel Fuel	1981	Sept 1993
7	North Tank Farm	Motor Oil	1981	Sept 1993
8	North Tank Farm	Motor Oil	1981	Sept 1993
9	North Tank Farm	Spare/never used	1981	Sept 1993
10	North Tank Farm	Gasoline	1981	Sept 1993
11	North Tank Farm	Oils	1981	Sept 1993
12	South Tank Farm	Gasoline	1986	Nov 2001
13	Wastewater Treatment	Hazardous Substance	1981	Oct 1990
SA-01	Not reported	Non-Registered Tank	Not Reported	Not Reported

Historically, thirteen USTs have been installed and subsequently removed from the Site. Releases have been reported from two USTs (#12 and #13). UST #12 was a 5,000 gallon premium unleaded gasoline tank that supplied a vehicle refueling dispenser pump and a day fuel storage tank. The day tank supplied gasoline to four engine test cells located within Building 501. The release from UST #12 was reported October 15, 2001(Confirmed Release Incident Number C-1954-90) and laboratory analytical results indicated the presence of toluene, ethylbenzene, xylene, naphthalene, and trimethylbenzene isomers in soil and groundwater samples. Following removal of the UST and day tank, approximately 40 cubic yards of impacted soil were removed and properly disposed. Detected concentrations of gasoline constituents were below the Michigan Department of Environmental Quality (MDEQ) Part 213 Soil and Groundwater Tier I Risk-Based Screening levels (RBSLs) for Residential and Commercial Standards. A closure report was submitted to the MDEQ in November 2001. Closure for the release from UST #12 was granted by the MDEQ on November 19, 2001.

UST #13, formerly located to the northeast of the WWTP, was a 5,000 gallon tank that stored a product containing 54 percent petroleum naphtha. The release from UST #13 was reported in September 1990, and laboratory analytical results indicated the presence of xylenes and total petroleum hydrocarbons (TPH) in soil and methylene chloride in groundwater. A 2001 Haley & Aldrich (H&A) Phase I ESA of the Site described investigations of UST #13 performed by ABB Environmental Services, Inc. (ABB). ABB reportedly concluded that the site could be closed because data supported the conclusion that “groundwater has not been impacted at the site, and with the exception of the excavation water sample, all samples were below Type B criteria”. Records indicate that GM received closure documentation from MDEQ on January 13, 1995 stating that the release had been remediated to Type B cleanup levels.

No RECs or other environmental issues were noted in association with the other identified USTs at the Site. Releases at former USTs #12 and #13 meet the ASTM definition of historical RECs.

2.1.4 ABOVEGROUND STORAGE TANKS

There are 28 ASTs currently located on the Site, 21 of which are located at the WWTP. The WWTP ASTs range in size from 3,000 to 150,000 gallons. These ASTs were used for process, collection, and storage of reclaimed oil and chemicals used for wastewater treatment. All of these AST's were cleaned during prior decommissioning activities.

Four ASTs are located at the north tank farm within a secondary containment area. The ASTs (two 20,000-gallon capacity and two 10,000-gallon capacity) formerly contained motor oil, way lube, and hydraulic oil. According to GM personnel these AST's were cleaned and rendered inert during prior decommissioning activities.

A 560-gallon diesel fuel AST was observed within a concrete spill containment pad at the north tank farm (refer to Photograph 24 in Appendix C). According to GM personnel, the AST was formerly located within the spill containment pad at the south tank farm, and it was not known if the AST currently contained product. The steel AST appeared to be in good physical condition with no obvious evidence of a release on the tank or the underlying containment pad. The spill containment pad appeared to be in good physical condition with no obvious cracks, holes or deterioration. In addition, there was no obvious evidence of a release on the containment pad located at the south tank farm where the AST was formerly located. The south tank farm spill containment pad appeared to be in good physical condition with no obvious cracks, holes or deterioration.

An approximate 300-gallon diesel AST was observed within a steel secondary containment structure within the north retention pond pump house (Building 568, see Photograph 20 in Appendix C). According to GM personnel, the AST currently contains diesel fuel. The steel AST appeared to be in good physical condition with no obvious evidence of a release on the tank or the underlying containment structure. In addition, there was no obvious evidence of a release on or beneath the diesel engine located within the pump house.

An approximate 200-gallon diesel fuel AST was observed within a steel secondary containment structure within the fire suppression pump house (Building 563). According to GM personnel, the AST currently contains diesel fuel. The steel AST appeared to be in good physical condition with no obvious evidence of a release on the tank or the underlying containment structure. In addition, there was no obvious evidence of a release on or beneath the diesel engine within the building.

Two large capacity water tanks (exact capacity unknown) storing municipal water for fire suppression are located outside each end of Building 563. While the tanks are not of environmental significance, they are noted due to their size and visibility.

In addition to the tanks listed above, there are several large capacity Henry Filter coolant filtration / chip removal tanks and other filtration system pass-through style tanks located within the basements of Buildings 501/502. In general, ASTs, process storage tanks, and secondary containment structures observed by EEC during the Site reconnaissance were in good condition with no significant signs of compromised integrity.

No RECs or other environmental issues were noted in association with ASTs at the Site.

2.1.5 HYDRAULIC EQUIPMENT

Hydraulic equipment observed at the Site included three hydraulic freight elevators (Buildings 501/502 basement), various process equipment hydraulic system, and hydraulic rams associated with the harpoon system (cutting swarf collection/transfer system from dry machining areas). No other reported or visible/accessible evidence of current or former hydraulic equipment was identified at the Site. With the exception of raw material purging and partial cleaning, the majority of process hydraulic equipment at the Site has not yet been decommissioned. Hydraulic rams and fluid transfer lines existing in trenches, pits, or otherwise inaccessible locations which could not be inspected are considered RECs at this time (refer to Section 2.1.7). No other RECs or other environmental issues were noted in association with hydraulic equipment at the Site.

2.1.6 SITE DRAINAGE AND DISCHARGE

Information regarding Site drainage was obtained from observations made by EEC during the Site reconnaissance, Site personnel interviews, and Site records.

A WWTP was formerly operated at the Site to treat non-hazardous process wastewater prior to discharging to the Delta Township Municipal sanitary sewer system. Process water from the Site was collected in the “wet well” in the basement of the WWTP. The treatment system includes 21 ASTs located at the WWTP. The WWTP ASTs, which range in size from 3,000 to 150,000 gallons, were used for process, collection, and storage of oily liquids and sludges, reclaimed oil and chemicals used for wastewater treatment. ASTs include a receiving tank, batch tank, dissolved air flotation tank, floatation effluent tanks, and filtered water tanks. The tanks in the WWTP were emptied and cleaned during the initial decommissioning efforts.

No releases from the WWTP, process wastewater piping, or the tanker truck unloading spill containment pad were documented, and no evidence of a release was observed during the Site reconnaissance. The spill containment pad appeared to be in good physical condition with no obvious cracks, holes or deterioration. However, the physical integrity of the numerous sumps, trenches, treatment tanks, and process piping runs present within the Site WWTP was not able to be verified, and there was no indication that previous investigations had been conducted in this area. Therefore, the WWTP is considered a REC.

Process waste was conveyed from Buildings 501/502 and other locations to the WWTP for treatment via approximately 3,000 linear feet of underground piping. The former contents of process lines located throughout the building included natural gas, sodium hydroxide, process waste raw, sulfuric acid, non-potable process waste, sludge, waste scum oil, aluminum sulfate, and polymer emulsion break. These process waste lines were purged as a part of initial decommissioning activities, though residuals likely exist within the piping. The integrity of the piping is not currently known. Therefore, the piping is considered an REC.

Effluent from the WWTP was discharged to the Delta Township sanitary sewer system under Industrial Wastewater Discharge Permit Number T27001, issued to GM for discharge from the Site. The permit required periodic monitoring and established effluent limits. A telephone interview was conducted with a representative of the Delta Township Utilities Department on August 26, 2004. The representative indicated that the Wastewater Discharge Permit is currently considered inactive, and that the only current discharge to the sewer system is groundwater which is pumped from sumps located in the basements of Buildings 501/502. The representative further indicated that there no current open permit violations.

Sanitary wastewater was generated from the Site cafeteria and restrooms. The sanitary waste sources are connected to the Delta Township sanitary sewer system via underground piping.

Storm water generated at the Site is discharged into two onsite retention basins. Storm water runoff from the two large parking lots on the west side of the Site is collected in catch basins and conveyed to a retention pond located to the north of the main production buildings (Buildings 501/502). Water from the north retention pond is pumped into a ditch located to the east of the pond using pumping equipment housed in Building 568. Water from the ditch is routed to a second retention pond located to the south of the wastewater treatment plant (WWTP; Building 561) via underground piping. Storm water collects from the roofs of Site buildings and paved driveways (except material storage and handling areas that are routed to the WWTP), and is either discharged into the north retention pond or directly into the south retention pond. The south retention pond discharges to Holly Drain, which is located to the east of the Site. The MDEQ online database indicates that the Site maintains a National Pollution Discharge Elimination System (NPDES) Certificate of Coverage No. MIR011492, issued May 8, 2003 under the Storm Water General Permit No. MIR010000. The expiration date of the permit is April 1, 2008.

According to the Site contact, a release occurred in approximately 1985 that resulted in a discharge of diesel fuel into the storm water management system. The release originated from a ruptured saddle tank on a semi tractor. Diesel fuel spilled on paved surfaces and entered a storm water catch basin and discharged into the south retention pond. The gate valve at the retention pond discharge point was promptly closed and the diesel was collected from the surface of the pond using absorbent material. The Site contact is not aware of any type of lining within either retention pond, nor is he aware of any additional investigation of the diesel fuel release or periodic maintenance pond dredging activities. Based on the potential impact to both ponds and the connecting ditch from parking lot runoff (automobile fluids) over a twenty-year period, as well as impact to the south pond from the diesel fuel release, the north and south storm water retention ponds and the connecting ditch are considered RECs.

2.1.7 PITS, SUMPS AND TRENCHES

Numerous pits, sumps, and trenches located throughout the Site are described below.

Coolant recovery trenches are present in areas where wet machining was performed in Buildings 501/502. These trenches collect the coolant after use, and transfer used coolant to coolant recycling stations located in the basements and in areas throughout the manufacturing area. Due to the presence of residual coolants, the trenches could not be thoroughly inspected to evaluate their physical integrity. Therefore, the coolant recovery trenches are considered RECs.

The harpoon system, which collected and transferred metal cutting swarf from the dry machining area to reclamation bins located at the salvage dock area, consists of several trenches and approximately twenty hydraulic rams. Approximately 84,000 square feet of trenches are included in the Harpoon system in Buildings 501/502. The trenches, as well as the hydraulic rams and associated hydraulic oil, aboveground storage tank (AST), and piping, have been drained, but have not been cleaned and purged. Metal swarf and oily residue were present in the trenches obscuring visual observation of the integrity of the concrete trench walls and base. Therefore, the harpoon system trenches are considered RECs.

Site personnel indicated that a former paint booth was located within Buildings 501/502 and that the paint booth used a water spray curtain and collection pit to contain paint overspray. The former spray booth was decommissioned (date unknown) and the collection pit filled to floor grade. The Site contact did not know details of waste handling and disposal practices associated with the former spray booth and did not know the location of the former structures within Buildings 501/502. However, the contact did supply a copy of a portion of a figure (Appendix B) that depicted the "Engine Paint Spray Pit" (abandoned pit,

sand filled, cemented floor) and an adjoining depressed floor area. Based on the partial figure, the former spray booth is believed to have been located near the southwest corner of Buildings 501/502. The former paint spray booth is considered a REC.

Three basement areas exist within Buildings 501/502 occupying an area of approximately 30,000 square feet. Some concrete floor staining and minor concrete deterioration was observed within the basements. The basements contain sumps and trenches which formerly collected coolants and other oils associated with the coolant recovery systems located in the basements. The integrity of the floors, sumps and trenches is not currently known and could not be sufficiently evaluated during the Site reconnaissance due to dim lighting and the presence of structures on the floor. Therefore, the basement floors, sumps and trenches are considered RECs.

Trench drains and blind collection sumps, which were installed to capture spilled liquids, are located in the combustible/flammable material and waste storage building. No free liquids or cracks/holes in the trenches or sumps were observed during the Site reconnaissance. Therefore, no RECs or other environmental issues were identified in association with these structures. This building received a clean closure in February 1991 by the Michigan Department of Natural Resources.

Blind trench drains and sumps, which were installed to collect spilled material from the battery recharge area, are located around the battery recharge area (approximately 10,000 square feet) in the main manufacturing building. A previous investigation reported that the trenches and sumps did not contain liquids and appeared to be structurally sound. EEC's did not observe any obvious cracks, holes, penetrations or deterioration of the battery recharge area sumps and trenches during the reconnaissance of the Site. Therefore, no RECs were identified in association with these structures.

A below grade sump exists in the Quality Assurance/Quality Control (QA/QC) lab located in Building 501 that was used to collect and pump laboratory waste to the WWTP. The integrity of the sump is not known. Therefore, the below grade sump is considered a REC.

2.1.8 RAW MATERIAL USE

Plant decommissioning activities completed to date have included the removal of nearly all raw materials from the Site. Prior to deactivation of the Site, the bulk of raw materials used included engine parts that were delivered to the Site by truck and rail. The engine parts were stored throughout Buildings 501/502 prior to machining and/or assembly. Other significant materials used at the Site included coolants, oils, lubricants, fuels, adhesives, cleaners, solvents, and paints. Coolants, oils and lubricants were stored in the existing ASTs located in the north tank farm (refer to Section 2.1.4) and used at various locations within Buildings 501/502. Fuels were stored in USTs and ASTs (see Sections 2.1.3 and 2.1.4) at the north and south tank farms, and within Buildings 563 and 568. A former petroleum naphtha UST was located to the northeast of the WWTP. Adhesives, cleaners, solvents, and paints were stored in 55-gallon drums and smaller containers within the flammable/hazardous waste storage building (#566) and within the manufacturing building at or near points of use. The main raw materials used within the WWTP included sulfuric acid, alum, polymer emulsion break, aluminum sulfate, sodium hydroxide, and natural gas.

Since raw materials are no longer used at the Site, no RECs or other environmental issues were identified in association with current raw material use at the Site. However, previous releases related to raw material usage and storage were identified at the Site, as summarized in Sections 2.1.3 and 2.1.18.

2.1.9 NON-HAZARDOUS WASTE

Documentation reviewed indicated the former generation of eleven non-hazardous special waste streams at the Site. Non-hazardous waste streams included machining residue, waste oils, lubricants and hydraulic fluids, oily rags, used paper filters, drum liners, empty containers and drums, filter cake, waste Loctite™, scrap metal, floor sweepings, and paint thinner contaminated rags. This documentation did not include generation of general items such as plant trash, wood, recyclable scrap metal. Plant decommissioning activities completed to date have included the removal of nearly all non-hazardous waste streams from the Site.

Machining lines were cooled and lubricated with oils and coolants in a closed loop system. The machining fluids were conducted within trenches and piping to “Henry Filters” located in basement areas of Buildings 501/502. Machining residue (metal filings, residual oil, oily water) were accumulated in a dragout unit and filtered in the basement areas. Other machining waste, oily rags and filter paper were generated and collected in one cubic yard gondolas. Gondolas of waste were transported to the Salvage Dock on the north end of Building 501/502 and transferred into lined 20 cubic yard roll-off boxes for landfill disposal.

Waste hydraulic oil from hydraulic units was accumulated in drip pans beneath the units, removed by vacuum trucks and transported to the WWTP. Filter cake generated by a filter press in the WWTP was accumulated in lined roll-off boxes for landfill disposal. Waste oils and sludges accumulated in ASTs located in the WWTP. These items were pumped and periodically transported offsite.

No evidence of onsite waste or material disposal was observed by EEC during the Site inspection. In addition, historical records did not reveal evidence of historical onsite disposal activities. Therefore, no RECs or other environmental issues were noted in association with non-hazardous waste generation or disposal.

2.1.10 HAZARDOUS WASTE

The EDR Database Report lists that the Site’s EPA Identification Number is MID980700843. Based on the review of the MDEQ Waste Data System (WDS) environmental database, the Site was listed as a Conditionally Exempt Small Quantity Generator of Hazardous Waste, and as a Liquid Industrial Waste (LIW) Generator, with acknowledgement that the facility is currently idle.

Two hazardous waste streams were formerly generated at the Site, including a hazardous waste storage area, and two waste oily sludge storage tanks. Hazardous wastes were accumulated in the eastern portion of the flammable/hazardous waste storage building (Building 566). Hazardous wastes stored in Building 566 have included waste paint thinner and spent paint filters (D001, D007 and D008), waste 3M mastic (D001, used from 1981 to 1985), and 1,1,1-trichloroethane (F001, used in degreasing and precision measuring operation on a one-time basis). The 3M mastic and 1,1,1-trichloroethane waste streams were only generated from 1981 through 1985. More recently, the stored waste included spent paint thinner and paper filters, empty spray paint cans, waste gasoline, and mixed lab pack from production operations.

A waste oil treatment system was also operated at the WWTP that included holding, heat treatment, acid treatment, caustic treatment, reheating and pH adjustment, and storage ASTs. The treatment system is a closed system located within the building on concrete floors. The treatment system ASTs have secondary containment concrete pads and berms, with no floor drains present within the secondary containment. Based on the review of MDEQ Hazardous Waste Permits Unit files, two of the ASTs associated the waste oil treatment system (T-9A and T-9B) previously stored waste oily sludge that was characteristically hazardous (D002, D007, D008, D009). From 1981 to 1985, waste oily sludge generated at GMC Plants 1

and 5 was transported to the Site by tanker truck for processing. The imported sludge was transferred to tanks T-9A and T-9B via a tanker truck unloading pad located on the south side of the WWTP. The waste oily sludge from Plants 1 and 5 was determined to be hazardous in the spring of 1983. According to the Site contact and documentation reviewed, waste oily sludge was also generated on Site as part of the process wastewater treatment system. Although the waste was never verified to be hazardous, it was assumed to be hazardous and handled as if it were.

The Site submitted an Act 64 Closure Plan for the hazardous waste container and tank storage areas to the Michigan Department of Natural Resources (MDNR, currently known as MDEQ) on July 5, 1983. BOC - Lansing Delta Engine Plant submitted a second Closure Plan to the MDNR on December 18, 1987, instead of completing a hazardous waste license application. The Closure Plan stated that following closure, the container storage area would be used to accumulate hazardous wastes for 90 days or less, and the two tanks would be used to store non-hazardous waste oily sludge. This action changed the Site's status from that of an interim status hazardous waste storage facility to an under 90-day generator. The MDNR approved the Closure Plan on August 22, 1988 (refer to Section 2.3.2 for additional details).

According to Site personnel, there were no pending hazardous waste violations relevant to the Site. No RECs were noted in association with hazardous waste use or storage at the Site. However, due to the potential future corrective action liability, categorization of the Site as part of a medium-priority RCRA Corrective Action may present potential corrective action liability for the Site.

2.1.11 SUSPECT ASBESTOS-CONTAINING BUILDING MATERIALS

An ACM survey was not conducted as part of this Phase I ESA. However, an asbestos identification survey and a verification inspection were conducted as part of previous investigations of the Site. The following is a summary of previous asbestos investigations:

- Barnes Engineering, Inc. performed an asbestos identification survey of the Site. The initial walk-through for the survey was conducted December 12 and 13, 2000, and samples of potential asbestos material were collected February 7 through 26, 2001. Asbestos-containing materials identified consisted of floor tiles and mastic and boiler gaskets. These materials were classified as Category I non-friable asbestos containing materials (greater than 1% asbestos).
- From May 7 through 10, 2004, ATC and Associates (ATC) inspected the Site to verify the results of the Barnes Engineering, Inc. asbestos identification survey and to assess if asbestos-related conditions at the Site have changed. ATC identified potential asbestos-containing materials at several locations throughout the Site not identified by Barnes Engineering, Inc. such as insulation, carpet glue/mastic, window caulk and mudded fittings and valves. EEC recommended that these materials be surveyed and sampled prior to demolition activities. Additionally, both asbestos identification surveys identify materials that could be present in roofing and in fire doors that have not been tested due to the destructive cutting that would be required to collect a sample. EEC recommended that these materials should also be sampled prior to demolition of the building as a pre-demolition survey. Based on current survey results, asbestos abatement would only be required for the demolition or remodeling of the Site.

EEC did not observe evidence of damaged ACM at the Site. Therefore, no RECs were noted in association with ACMs. However, the confirmed presence of ACMs identified during previous investigations is considered a Site development issue.

2.1.12 LEAD-BASED PAINT

A lead-based paint survey was not conducted as part of this Phase I ESA. However, a lead-based paint survey conducted by Barnes Engineering, Inc. during March 2001. As a result of the survey, a number of paints at the Site were found to contain lead at concentrations ranging from 0.01 milligrams per cubic centimeter to 4.5 milligrams per cubic centimeter. Paints containing lead at the Site included 18 out of 18 colors identified in the main plant and office, 15 out of 18 colors identified in the WWTP, 4 out of 4 colors identified in the storm water pump house, 7 out of 7 colors identified in the powerhouse, and 3 colors identified in the electrical switch building. The United States Environmental Protection Agency (EPA) and Department of Housing and Urban Development (HUD) define lead-based paint hazardous if it exceeds 1.0 milligrams per cubic centimeter. Forty-two samples exceeded 1.0 milligrams per cubic centimeter. Based on EEC's reconnaissance of the Site (May 2004), to the extent accessible painted surfaces at the Site appeared to generally remain in good condition. Therefore, no RECs were noted in association with lead-based paint at the Site. However, the confirmed presence of lead-based paint is considered a Site development Issue.

2.1.13 POLYCHLORINATED BIPHENYLS

According to Site personnel, there is no known PCB (polychlorinated biphenyl) containing equipment onsite, and sampling of equipment/hydraulic oils has not identified any equipment containing PCBs to date. In addition, lighting ballasts at the Site have not been found historically to contain PCBs according to Site personnel. Potential PCB-containing equipment and materials observed at the Site include the electrical substation transformers and capacitors, three hydraulic freight elevators (Building 501/502 basements), equipment hydraulic reservoir residuals, hydraulic rams associated with the harpoon system (cutting swarf collection/transfer system from dry machining areas) and lighting ballasts throughout the Site. The potential PCB-containing equipment appeared to be in good physical condition during the Site reconnaissance. The electrical substation is owned and operated by Lansing Board of Water and Light and is, therefore, assumed to be the responsibility of the utility.

Based on previous characterization and sampling activities, and in consideration that Site structures were constructed after the date that the GM ban on the use of PCB containing materials was implemented, no RECs or other environmental issues were noted in association with potential PCB-containing materials at the Site.

2.1.14 RADON GAS

Information regarding radon concentrations in the Site vicinity was obtained by EDR. Details regarding this information are presented in the Geotcheck Addendum to the EDR Radius Map Report, which is attached as Appendix D. Eaton County is located within Radon Zone 2, where average predicted indoor radon concentrations are between 2 and 4 picoCuries per liter (pCi/L). This information was derived from the US Environmental Protection Agency (EPA) Radon Map, which is based on indoor radon screening samples compiled by the EPA, geologic and soil analysis, and the foundations types typically found within each zone. Of five sites tested, EDR reported average radon data of 2.240 pCi/L in basement areas. Eighty percent of the sites tested had radon concentrations less than 4 pCi/L. The average concentration compares favorably to the EPA safety standard for radon gas in residences of 4 pCi/L and the United States Council on Radiation Protection and Measurement (NCRP) standard of 8 pCi/L. In consideration of the area radon data, no RECs or other environmental issues were noted in association with radon at the Site.

2.1.15 WETLANDS IDENTIFICATION

A wetland survey or delineation was not conducted for this Phase I ESA. The EDR report indicated that 2002 National Wetlands Inventory (NWI) data for the Site and surrounding area was not available from the U.S. Fish and Wildlife Service. Site personnel stated that regulated wetlands are not known to exist on the Site. EEC observed three relatively small potential wetland areas (cattails and willows) on the northern vacant portion of the Site at the time of the Site reconnaissance. Each of the three areas appeared to be no larger than approximately 900 square feet. The nearest surface water body is Holly Drain, located adjoining the eastern boundary of the Site. No RECs were noted in association with wetland areas. However, the presence of small isolated potential wetland areas on the northern vacant portion of the Site may present a Site Development issue.

2.1.16 FLOOD PLAIN INFORMATION

Federal Emergency Management Agency (FEMA) flood zone electronic data was not available for the Site and surrounding area from EDR. The Site building roofs and paved lots (except material storage and handling areas that are routed to the WWTP) are equipped with drainage structures that lead to two stormwater detention ponds discharging into Holly Drain. Site personnel did not indicate that flooding had occurred at the Site. Based on this information, no environmental issues were noted in association with flooding.

2.1.17 AIR EMISSIONS

According to Site personnel and a review of the MDEQ information, the Site had seven units regulated by air permits. These units include 15 oil mist collectors serving wet machining operations (permit #806-81AI); a cup plug sealant (#516-89); a cam carrier cover used in cylinder head and cam carrier sealant operations (#842-89); paint spray booth filters used in routine painting (#1037-80); oil mist collectors servicing crankshaft machining operations (#799-85); various boilers burning either natural gas or formerly burning reclaimed waste oil (#1038-80); and waste oil reclamation exhaust serving various waste oil reclamation cookers and a fume scrubber (#1039-80). Based on review of the available information no air permit violations were identified. Based on available information, no RECs or other environmental issues were noted in association with air emissions.

2.1.18 SPILLS / RELEASES

Information on spills and releases was obtained from Site interviews available documentation. In addition to information in this section, a 1985 release of diesel fuel migrating to the south retention pond was identified as a REC in Section 2.1.6, and two releases associated with former UST #12 and former UST #13 were identified as Historic RECs in Section 2.1.3.

A Report on Supplemental Subsurface Exploration , Ethylene Glycol Spill Area and North Tank Farm Area, GM B.O.C. Lansing Plant No. 5, Lansing, Michigan was prepared for McNamee Industrial Services by NTH Consultants, Ltd. on October 29, 1992. The purpose of the investigation was to evaluate soil conditions in an area of a proposed tank farm and pipe trestle, to make foundation and site preparation recommendations, and to sample soils within an area of an ethylene glycol spill for analytical testing. The letter report described the installation of four soil borings (TB-1 through TB-4) in the spill area, and included a boring location map and boring logs. In addition, the report indicates that soil samples were collected from the soil borings (the number and depth of samples was not specified) and that the soil samples were turned over to GM personnel, referencing an attached chain-of-custody (COC). The NTH

report does not describe the nature of the ethylene glycol release, or reference previous investigations or reports. The copy of the NTH letter report provided by the GM Site contact did not include a copy of the COC. However, a separate analytical report was provided that includes analysis of 12 soil samples for ethylene glycol (Method 8015M). The analytical report indicates that three soil samples were collected from each of the four borings at depth intervals of 5, 10, and 15 feet below ground level. The analytical results of the 12 soil samples indicate that ethylene glycol was not detected in any of the 12 samples in concentrations exceeding the MDL of 100 mg/kg. The H&A Phase I ESA included the following brief summary of the ethylene glycol spill. "A release was reported in a sidewalk heating system in July 1992. The release involved the loss of approximately 110 gallons of ethylene glycol. Response actions included the removal of approximately 42 cubic yards of impacted soil and subsequent replacement of ethylene glycol with propylene glycol." The Site contact provided one report and associated laboratory analytical results documenting soil sampling at the ethylene glycol release area. However, the report was very brief and lacked information regarding the nature of the release, remedial effort details, confirmation sampling locations, or if closure activities were anticipated. Therefore, the location of the spill is considered an REC.

An investigation of a Suspected Process Sewer Leak at the General Motors Powertrain Plant (Site) was prepared for General Motors by Soil and Materials Engineers, Inc. (SME) on August 5, 1999. The suspected leak in the process sewer was located in the south train well of the salvage dock area located on the north end of Building 501/502. Oily chips, scrap parts, and oily debris were collected in this area, which also contains floor drains connected to the WWTP, salvage metal bins, and a paint booth and cleaning booth. A previous video inspection of the sewer indicated a probable break in the sewer line. SME oversaw excavation activities in the suspected leak location on July 13, 15 and 16, 1999. Concrete was cut and soil was removed at the location, creating an approximate 1.3-foot by 120-foot long trench at the west end of the south train well. No breaks were identified in the sewer line at the suspected location. However, free oil was identified immediately below the concrete at several locations along the trench. SME collected a sample of the oil, which was analyzed for cadmium, chromium, lead, and semi-volatile organic compounds (SVOCs). The analytical results of the oil sample indicated that metals were detected at concentrations below the Michigan Statewide Default Background concentrations. SVOCs were not detected in the oil sample in concentrations exceeding their respective analytical method detection limits (MDLs). Based on the analytical results, the oil was believed to be synthetic. Because SVOCs were not detected, the oil was analyzed for total petroleum hydrocarbons (TPH), which were detected at a concentration of 1,000,000 milligrams per kilogram (mg/kg). Visible oil and stained soil were removed from the trench by hand shoveling, but an area at the east end appeared to have free oil remaining under the concrete. Because the concrete at the east end of the trench was greater than two feet thick, the concrete was not removed. Two horizontal hand auger borings were completed at the east end of the trench beneath the concrete and two soil samples were collected. No oil was observed in either of the hand auger borings, but the analytical results indicated potential oil impact to the east of the trench. Ten additional soil samples were collected from the trench in areas where free oil had been observed and the samples were analyzed for cadmium, chromium, lead, SVOCs and TPH. The analytical results of the soil samples indicated that metals were detected at concentrations below the Michigan Statewide Default Background concentrations. SVOCs were not detected in the soil samples in concentrations exceeding their respective analytical MDLs. Four of the twelve soil samples contained TPH concentrations greater than 1,000 mg/kg; no TPH was detected above the MDL in the remaining eight soil samples. The MDEQ does not have cleanup criteria for TPH. SME contacted an MDEQ representative for direction regarding cleanup of synthetic oil. The representative stated that synthetic or vegetable based oils are not considered hazardous or a contaminant, and are therefore not regulated by the MDEQ, adding that "any cleanup should be based on your own judgment". Based on observations, analytical results, and conversation with the MDEQ representative, SME did not recommend additional cleanup of the oil. During the Site reconnaissance, the concrete floors of the salvage dock area appeared to be in good physical condition with no obvious damage, cracks or holes. However, no integrity issues were identified associated with the sewer line, indicating that the release may be a result of floor integrity issues in the

area, which contains hazardous substances and petroleum products in addition to synthetic or vegetable-based oils. Therefore, the salvage dock area is considered an REC.

The H&A Phase I ESA (see Section 2.2.4 summary) stated that interviews with Site personnel indicated historic spills of oil-based coolants in areas where significant cracks and other penetrations through the floor in the production area were present. However, the Site contact was not aware of any significant floor damage in the production area. In addition, based on the Site reconnaissance, EEC did not observe obvious evidence of significant floor damage within the main/first floor of Buildings 501/502. Based on the lack of observable evidence, the floor damage mentioned in the H&A report is not considered an REC.

When operating, the Site maintained an Integrated Contingency Plan to prevent, respond, and mitigate spills and releases. Among other regulations, the plan was developed and implemented to comply with federal Oil Pollution Prevention regulations under 40 CFR Part 112 and Michigan Spillage of Oil and Polluting Materials regulations under Public Act 451 of 1994. The plan contains the required contents of a Spill Prevention Control and Countermeasures (SPCC) Plan and a Pollution Incident Prevention Plan (PIPP), respectively. The plan describes controls and countermeasures established to prevent and mitigate discharges of oil and polluting materials to the outside environment and surface waters.

2.1.19 CERCLA LIABILITY POTENTIAL

The Site is not listed on the NPL or in the State Hazardous Waste Site Database. EEC observed no documentation that the Site has received notification from any government agency or third party of liability as a potential responsible party for any hazardous waste treatment, storage, or disposal onsite. EEC observed no documentation that the Site has defended any environmental-related claims or litigation asserted by any governmental agency or third party, and no potential claims or litigation presently exist.

2.2 SITE HISTORY REVIEW

2.2.1 PROPERTY USAGE

City Directories

EEC contracted EDR to perform a city directory search of the current Site street address. In addition, city directory searches of adjacent property addresses were reviewed. City directory listings were available from EDR for the years 1973 through 2003. The EDR city directory report is included in Appendix E. The following paragraphs summarize former occupants of the Site and nearby South Canal Road properties:

1973

- The Site address, 2901 South Canal Road, “is not listed in the resource”.
- The only address listed in the 2900 to 3000 block of South Canal Road is a residence at 2800 South Canal Road. This address is located to the west of the Site, along the west side of South Canal Road.

1978

- The Site address, 2901 South Canal Road, “is not listed in the resource”.
- The addresses listed in the 2900 to 3000 block of South Canal Road include a residence at 2800 South Canal Road, Central Dairy Supply at 2810 South Canal Road (to the west of the Site, along the west

side of Canal Road), and Canteen Services Company at 3010 South Canal Road (to the south and west of the Site, along the west side of Canal Road).

1983

- General Motors Corporation, Olds Division General Motors is listed at 2901 South Canal Road.
- The addresses listed in the 2900 to 3000 block of South Canal Road include “No Return” at 2800 South Canal Road, Central Dairy Supply at 2810 South Canal Road , Sherriff Goslin Company at 3008 South Canal Road (to the south and west of the Site, along the west side of Canal Road), and no listing at 3010 South Canal Road.

1988

- General Motors Corporation, Olds Division General Motors is listed at 2901 South Canal Road.
- The addresses listed in the 2900 to 3000 block of South Canal Road include “No Return” at 2800 South Canal Road, Central Dairy Supply at 2810 South Canal Road , Sherriff Goslin Company at 3008 South Canal Road, and no listing at 3010 South Canal Road.

1993

- General Motors Corporation is listed at 2901 South Canal Road.
- The addresses listed in the 2900 to 3000 block of South Canal Road include “No Return” at 2800 South Canal Road, Central Dairy Supply at 2810 South Canal Road, Sherriff Goslin Company at 3008 South Canal Road, and Canteen Services at 3010 South Canal Road.

1998

- General Motors Corporation is listed at 2901 South Canal Road.
- The addresses listed in the 2900 to 3000 block of South Canal Road include “No Return” at 2800 South Canal Road, Central Dairy Supply at 2810 South Canal Road, residences at 2815, 2816, and 2851 South Canal Road, Sherriff Goslin Company at 3008 South Canal Road, and Canteen Services at 3010 South Canal Road.

2003

- General Motors Corporation is listed at 2901 South Canal Road.
- The addresses listed in the 2900 to 3000 block of South Canal Road include “No Return” at 2800 South Canal Road, Central Dairy Supply at 2810 South Canal Road, Sherriff Goslin Company at 3008 South Canal Road, and “Heat and Frst. Asb. Wrk.” at 3010 South Canal Road.

Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps assist in the identification of historic land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements and facility operations.

No Sanborn Maps were reported to be available for the Site in the EDR Historic Map Collection. Documentation of No Coverage is included in Appendix E.

Aerial Photographs

Aerial photographs assist in the identification of Site features and outdoor activities of potential environmental concern. Aerial photographs for the years 1938, 1955, 1967, 1974, 1981, and 1997 were reviewed by EEC. Aerial photographs are included in Appendix E. The following is a summary of EEC's interpretation of features observed on the aerial photographs:

1938:

- The Site and surrounding properties were used for agricultural purposes. Two apparent residences/farms with multiple structures are present near the southwest and northwest corners of the Site, along South Canal Road. Three apparent residences/farms with multiple structures are present on the northern portion of the Site, along Mt. Hope Highway.
- Holly Drain (now also known as Carrier Creek) is depicted on the adjoining property to the east of the Site and on the southeast corner of the Site. Holly Drain does not currently cross the Site, and has apparently been relocated since 1938.
- Roads were present where Canal Road and Mt. Hope Highway and Millett Highway currently exist.
- Adjoining properties are either agricultural, residential/farms, or wooded.

1955:

- No significant discernible differences were noted between the 1938 and 1955 historic aerial photographs.

1967:

- An additional residence/farm was located on the Site, along Millett Highway. Additional residences were present on the adjoining property to the north, along Mt. Hope Highway.

1974:

- With the exception of the presence of an apparent electrical power plant at the current Lansing Board of Water and Light location (approximately 700 feet to the south of Millett Highway) and the presence of Highway U.S. 96 to the west of the Site (approximately 1600 feet to the west of Canal Road), no significant discernible differences were noted between the 1974 and 1967 historic aerial photographs.

1981:

- The 1981 historic aerial photograph appears to depict nearly all of the structures currently present on the Site. However, the small scale of the photograph precludes definitive identification of smaller structures/features. Holly Drain no longer crosses the southeast corner of the Site, and appears to have been relocated to the east of the Site, along the eastern Site boundary. Areas on the Site located directly to the east of Building 501/502, on the southeast corner of the Site, and on the northern half of the Site appear to exhibit signs of soil disturbance, potentially associated construction of the manufacturing Site in 1980. No residences/farms appear to be present on the Site, and apparent commercial land uses are on adjoining properties to the south and west of the Site.

1997:

- The 1997 aerial photograph depicted that an extension to the southeast portion of Building 502

occurred sometime after 1981. No other significant discernable differences were noted between 1981 and 1997. The 1997 aerial photograph was generally representative of existing structures at the Site and adjoining properties.

The review of historic records revealed that the Site and surrounding properties were primarily agricultural, residential and wooded until at least 1974. The Site has been used for industrial purposes since 1981, and some of the surrounding properties have been used for industrial and/or commercial purposes since 1974.

Historical Topographic Maps

Topographic maps assist in the identification of Site features including structures, landforms, elevations, and outdoor activities of potential environmental concern. Topographic maps for the years 1910, 1965 and 1973 were reviewed by EEC. Topographic maps are included in Appendix E. The following is a summary of EEC's interpretation of features observed on the topographic maps:

1910 Map:

- Two apparent residences are present near the southwest and northwest corners of the Site, along an unlabeled road (current South Canal Road location). Three apparent residences are present on the northern portion of the Site, along an unlabeled road (current Mt. Hope Highway location).
- Holly Drain (also known as Carrier Creek) is depicted on the adjoining property to the east of the Site and on the southeast corner of the Site. The drain does not currently cross the Site, and has apparently been relocated since 1910.
- Two wetlands are depicted on the Site, one at the approximate location of a current wooded area located just to the north of the current compressor building, and the second near the southeast corner of the Site.
- Roads were present where Canal Road, Mt. Hope Highway and Millett Highway currently exist.
- Residences are depicted on adjoining properties to the north, south and west of the Site and the sparse density of residences in the vicinity of the Site suggests agricultural land uses.
- The average elevation of the Site is approximately 872 feet above mean sea level and the Grand River is present approximately 1.25 miles to the southeast of the Site.

1965 Map:

- With the exception of a label on Holly Drain, labels on roads adjoining the Site (same as current road names), no wetlands depicted on the Site, and the presence of Highway U.S. 96 to the west of the Site, no significant differences were noted between the 1965 and 1910 topographic maps.

1973 Map:

- With the exception of the presence of apparent industrial and commercial type structures to the south and east of the Site, no significant differences were noted between the 1973 and 1965 topographic maps.

No RECs or other environmental issues were noted in association with city directory searches, aerial photographs, or historic topographic maps.

2.2.2 REGIONAL GEOLOGY

Information regarding the regional and Site-specific geology in the Site vicinity was obtained from the Geocheck Addendum to the EDR Radius Map Report and previous Site investigations.

The Site is located approximately 772 feet above mean sea level. The topography at the Site is relatively flat, while the general area has a slight topographic gradient to the north and west. EDR regional data indicates that the shallow soil texture in the area of the Site is loam. EDR describes regional shallow soil types as sandy loam muck. Previous investigations at the Site indicate that soil at the Site consisted primarily of silty sand and silty clay to an approximate depth of 15 feet below ground surface.

EDR describes deeper regional soil types as clay loam, muck, and sand. Underlying the surface, shallow, and deeper soils are the bedrock deposits classified as Paleozoic Era, Pennsylvanian System, and a mixture of the Atokan, and Morrowan Series. These soils consist of somewhat poorly drained, nearly level to undulating soils on till plains. These soils are said to include loam soils overlying glacial deposits of sand, silt, gravel and clay. Bedrock beneath the glacial deposits is sandstone and shale interbedded with limestone and coal, associated with the Saginaw and Grand River Formations.

2.2.3 REGIONAL HYDROGEOLOGY

Information regarding the regional hydrogeology of the Site vicinity was obtained from previous Site investigations and inferences based on topography and proximity to surface water bodies. The EDR GeoCheck Addendum indicated that no hydrogeologic information is available within a one mile radius of the Site.

Previous Site environmental investigations indicated that groundwater was encountered at depths ranging from 4 to 13 feet below ground surface, mainly between silty clay seams within silty sands. Based on the proximity of the Holly Drain, located adjoining the eastern boundary of the Site, the inferred localized groundwater flow direction in the vicinity of the Site is to the east or northeast, toward the Holly Drain. However, a hydrogeologic investigation would be required to make a more definitive determination of the localized groundwater flow direction.

2.2.4 PREVIOUS INVESTIGATIONS

The following previous investigative reports and related correspondence regarding the Site were reviewed. Reports were either made available to EEC or referenced from the June 2001 Haley & Aldrich Phase I ESA. Below is a summary of material findings, conclusions and recommendations presented in the reports.

- A Report on Supplemental Subsurface Exploration , Ethylene Glycol Spill Area and North Tank Farm Area, GM B.O.C. Lansing Plant No. 5, Lansing, Michigan was prepared for McNamee Industrial Services by NTH Consultants, Ltd. on October 29, 1992.
 - This report was referenced from the June 2001 Haley & Aldrich Phase I ESA. The purpose of the investigation was to evaluate soil conditions in an area of a proposed tank farm and pipe trestle to make foundation and site preparation recommendations, and to sample soils within an area of an ethylene glycol spill and to turn over the samples to GM for analytical testing. The letter report described the installation of four soil borings (TB-1 through TB-4) in the spill area, and included a boring location map and boring logs. In addition, the report indicates that soil samples were collected from the soil borings (the number and depth of samples was not specified) and that the soil samples were turned over to GM personnel, referencing an attached chain-of-custody (COC). The NTH report does not describe the

nature of the ethylene glycol release, or reference previous investigations or reports. The copy of the NTH letter report provided by the GM Site contact did not include a copy of the COC. However, a separate analytical report was provided that includes analysis of 12 soil samples for ethylene glycol (Method 8015M). The analytical report indicates that three soil samples were collected from each of the four borings at depth intervals of 5, 10, and 15 feet below ground level. The analytical results of the 12 soil samples indicate that ethylene glycol was not detected in any of the 12 samples in concentrations exceeding the MDL of 100 mg/kg.

- The H&A Phase I ESA (summarized above) included the following brief summary of the ethylene glycol spill. “A release was reported in a sidewalk heating system in July 1992. The release involved the loss of approximately 110 gallons of ethylene glycol. Response actions included the removal of approximately 42 cubic yards of impacted soil and subsequent replacement of ethylene glycol with propylene glycol.”
- An investigation of a Suspected Process Sewer Leak at the General Motors Powertrain Plant (Site) was prepared for General Motors by Soil and Materials Engineers, Inc. (SME) on August 5, 1999.
 - This report was referenced from the June 2001 Haley & Aldrich Phase I ESA. The suspected leak in the process sewer was located in the south train well of the salvage dock area located on the north end of Building 501/502. A previous video inspection of the sewer indicated a probable break in the sewer line. SME oversaw excavation activities in the suspected leak location on July 13, 15 and 16, 1999. Concrete was cut and soil was removed at the location, creating an approximate 1.3-foot by 120-foot long trench at the west end of the south train well. No breaks were identified in the sewer line at the suspected location. However, free oil was identified immediately below the concrete at several locations along the trench. SME collected a sample of the oil, which was analyzed for cadmium, chromium, lead, and semi-volatile organic compounds (SVOCs). The analytical results of the oil sample indicated that metals were detected at concentrations below the Michigan Statewide Default Background concentrations. SVOCs were not detected in the oil sample in concentrations exceeding their respective analytical method detection limits (MDLs). Based on the analytical results, the oil was believed to be synthetic. Because SVOCs were not detected, the oil was analyzed for total petroleum hydrocarbons (TPH), which were detected at a concentration of 1,000,000 milligrams per kilogram (mg/kg). Visible oil and stained soil were removed from the trench by hand shoveling, but an area at the east end appeared to have free oil remaining under the concrete. Because the concrete at the east end of the trench was greater than two feet thick, the concrete was not removed. Two horizontal hand auger borings were completed at the east end of the trench beneath the concrete and two soil samples were collected. No oil was observed in either of the hand auger borings, but the analytical results indicated potential oil impact to the east of the trench. Ten additional soil samples were collected from the trench in areas where free oil had been observed and the samples were analyzed for cadmium, chromium, lead, SVOCs and TPH. The analytical results of the soil samples indicated that metals were detected at concentrations below the Michigan Statewide Default Background concentrations. SVOCs were not detected in the soil samples in concentrations exceeding their respective analytical method detection limits (MDLs). Four of the 12 soil samples contained TPH concentrations greater than 1,000 mg/kg and no TPH was detected above the MDL in the remaining eight soil samples. The MDEQ does not currently have a cleanup criteria for TPH.
 - SME contacted an MDEQ representative for direction regarding cleanup of synthetic oil. The representative stated that synthetic or vegetable based oils are not considered hazardous or a

contaminant and are therefore not regulated by the MDEQ, adding that “any cleanup should be based on your own judgment”.

- Based on observations, analytical results, and conversation with the MDEQ representative, SME did not recommend additional cleanup of the oil.
- A Lead – Paint Identification Survey Report of the General Motors Corporation Delta Engine Plant was prepared for General Motors Corporation by Barnes Engineering, LLC. on March 5, 2001.
 - A NITON X-Ray Fluorescence Analyzer (XRF) was used to determine if painted surfaces were positive for lead. Sampling was conducted on February 8, 2001. As a result of the survey, a number of paints at the Site were found to contain lead at concentrations ranging from 0.01 milligrams per cubic centimeter to 4.5 milligrams per cubic centimeter. Paints containing lead at the Site included 18 out of 18 colors identified in the main plant and office, 15 out of 18 colors identified in the WWTP, 4 out of 4 colors identified in the storm water pump house, 7 out of 7 colors identified in the powerhouse, and 3 colors identified in the electrical switch building. The United States Environmental Protection Agency (EPA) and Department of Housing and Urban Development (HUD) define lead-based paint hazardous if it exceeds 1.0 milligrams per cubic centimeter. Forty-two samples exceeded 1.0 milligrams per cubic centimeter.
- An Asbestos Identification Survey Report of the General Motors Corporation Delta Engine Plant was prepared for General Motors Corporation by Barnes Engineering, LLC. on March 8, 2001.
 - The initial walk-through for the survey was conducted December 12-13, 2000, and samples of potential asbestos material were collected February 7-26, 2001. Asbestos-containing materials identified consisted of floor tiles and mastic and boiler gaskets. These materials were classified as Category I non-friable asbestos containing materials (greater than 1% asbestos).
- A Phase I Environmental Site Assessment of the Delta Engine Plant was prepared for General Motors Corporation by Haley & Aldrich, Inc. (H&A) in June of 2001. The H&A report identified potential areas of concern (PAOC) and potential areas of release (PAOR) at the Site. A PAOC was defined as an area with a “documented release or likely presence of a hazardous substance or petroleum product to soils or groundwater that could pose an unacceptable risk to human health or the environment.” A PAOR was defined as an “area, equipment, or structure that contain a hazardous substance or petroleum products under conditions that indicate a material threat of release into the structure, onto the ground, into the groundwater or into surface water AND that does not meet the definition of a PAOC.”
 - Identified PAOCs included 1) Painting operation with sump. Visible inspection was not feasible, and there was an unknown history of releases. 2) Sidewalk heating system. There was a documented release from this system.
 - Identified PAORs included 1) Basements in Buildings 501/502. The three basements contained sumps and trenches which collect coolants and other oils. 2) Floors in the production area of Building 501/502. Interviews with Site personnel indicated historic spills of oil-based coolants in areas where significant cracks and other penetrations through the floor in the production area are present. 3) Process sewer lines ran from the manufacturing buildings to the wastewater treatment plant. These lines carried water soluble coolants and oils. 4) There were collection sumps and treatment tanks/vats located below grade in the

wastewater treatment plant. The integrity of the sumps and treatment tanks/vats were unknown. 5) There was a gasoline underground storage tank and day tank located outside the southern portion of Building 501. These tanks were used to supply fleet vehicles as well as the engine test bay located inside Building 501. 6) There were four above-ground storage tanks (ASTs) which contained coolants and oils located in a concrete diked tank farm. 7) There were three containment pads used for the transfer of oils/petroleum products from tanks to tanker trucks: one pad located immediately east of the north tank farm, the south tank farm, and another pad located southeast of Building 561 (wastewater treatment plant). There was some evidence of minor spills and releases on these pads. 8) The harpoon system was a below grade system of trenches and hydraulic rams that collected cutting swarf from the dry machining area and transferred the swarf to reclamation bins located in the Salvage Dock Area. The harpoon system used approximately 20 hydraulic rams. 9) Coolant recovery trenches were present in those areas where wet machining was performed. These trenches collected the coolant after use and transfer the used coolant to coolant recycling located in the basements and in areas throughout the manufacturing area. There were areas where there were cracks and other penetrations through the concrete. 10) The salvage dock area was where oily chips, scrap parts, and oily debris is collected. The salvage dock area contained floor drains in the train well area, salvage metal bins, and cleaning booth. Some of the reclaimed metals had oils and cutting fluids. 11) There was an electrical substation present on the northeastern portion of the Site. The transformers were owned by the local utility, and the land was owned by General Motors. 12) There were diesel fuel ASTs present in the South Tank Farm, Building 568, and Building 563. 13) There was a below grade sump in the QA/QC lab located in Building 501 that was used to collect and pump laboratory waste to the wastewater treatment plant.

- Based on the results of the assessment, H&A recommended additional investigation.
- An Underground Storage Tank Closure Report, Lansing Plant #5 was prepared for the Environmental Corporate Remediation Company, Inc. (ENCORE), a wholly-owned subsidiary of General Motors Corporation (GM) by Blasland, Bouck & Lee, Inc. in November 2001.
 - The purpose of this report was to present a summary of UST removal and closure activities associated with a former UST #12 located at GM's Powertrain Delta Engine Plant (the Site). The intent of this report was to fulfill UST closure requirements pursuant to Part 213 of Michigan's Natural Resources and Environmental Protection Act of 1994 (Act 451), as amended. The UST was installed in 1986 to supply fuel for vehicle refueling and testing of engines manufactured at the facility. The 5,000-gallon underground storage tank supplied premium unleaded gasoline to a dispensing pump island for vehicle refueling and a day fuel storage tank. The day tank, in turn, supplied gasoline to four engine test cells.
 - The area where the UST was located, referred to as the South Tank Farm, was paved with reinforced concrete adjacent at the south end of Plant #5. To the south of the former UST is a refueling pad (enclosed by a four-inch containment roll curb) where two sets of fuel lines ran for gasoline dispensing and filling of the UST. To the immediate north of the UST was a partial aboveground concrete vault that held the day tank for the engine testing cells in the southwest corner of the facility. The UST system had vapor recovery and leak detection systems.
 - Demolition work to remove the UST, day tank and associated piping began on October 2, 2001 and once the structures were removed, the excavation depth varied between 2.5 to an estimated 12 feet below ground surface (bgs). Groundwater was encountered at four feet bgs

during excavation, approximately one foot below the top of the UST. The excavation was backfilled with clean sand followed by compacted gravel at grade surface.

- Approximately 60 cubic yards of concrete were delivered to Crandall Brothers, Inc. for recycling and approximately 40 cubic yards of excavated soil were transported and disposed at Granger Landfill on Lansing Road in Lansing, Michigan.
- On October 4 and 5, 2001, ten verification soil and groundwater samples were collected from the bottom of the excavation where the UST and its piping were located. Two soil samples were collected below the dispensing lines (one below the dispenser) and two soil samples were collected below the tank fill lines (one below the fill port). Four soil samples were collected under piping that ran from the fuel cells to the day tank vault. One soil sample was collected under the line that ran from the UST to the day tank vault. The entire bottom of the UST was below groundwater, necessitating the collection of a single groundwater sample in lieu of two soil samples.
- Although toluene, ethylbenzene, xylene, naphthalene, and trimethylbenzene isomers were reported in four of ten soil samples, none of the constituents were reported at levels that exceeded Tier 1, Residential and Commercial I RBSL concentrations. Volatile Organic Compounds (VOCs) were reported at low levels along the USTs dispensing lines, under the dispensing pump, and under the fill port for the tank. There were no reported VOC concentrations found north of the UST adjacent to Plant #5 (Figure 3). The groundwater sample from the UST excavation area was found to contain low levels of toluene, ethylbenzene, xylene, naphthalene, and trimethylbenzene isomers. The concentrations of these constituents were all below the Tier I RBSL.
- As documented in a letter sent to GM dated February 12, 2002, the MDEQ Storage Tank Division (STD) conducted an audit of the district file documents related to the UST closure. Based on the results of the audit, the STD agreed that corrective actions at the Site had been completed in accordance with Part 213, resulting in unrestricted residential use of the Site based on a Tier 1 evaluation.
- A Visual Asbestos Identification Survey of the General Motors Delphi Engine Plant, 2901 South Canal Road, Lansing Michigan, was prepared by ATC Associates, Inc. on May 14, 2004.
 - ATC inspected the Site to verify the results of the Barnes Engineering, LLC asbestos identification survey and to assess if asbestos-related conditions at the Site had changed. ATC identified potential asbestos-containing materials at several locations throughout the Site that had not been identified by Barnes Engineering such as insulation, carpet glue/mastic, window caulk and mudded fittings and valves. Additionally, both asbestos identification surveys identify materials that could be present in roofing and in fire doors that have not been tested due to the destructive cutting that would be required to collect a sample. ATC recommended that these materials should be sampled prior to demolition of the building as a pre-demolition survey. Based on current survey results, asbestos abatement would only be required for the demolition or remodeling of the Site.

2.3 FEDERAL, STATE, AND LOCAL AGENCY FILE REVIEW

2.3.1 ENVIRONMENTAL DATABASE SEARCH

EEC contracted Environmental Data Resources, Inc. (EDR) to conduct a search of federal and state environmental databases. Based on the approximate center of the Site, the database searches were completed to assist in the identification of conditions at the Site. Due to the dimensions of the Site, the radius distance was expanded to 0.5 mile beyond the distance specified in ASTM Standard E1527-00. The complete EDR Radius Map Report is attached as Appendix D. The following is a list of databases reviewed and respective search distances from the center of the Site:

FEDERAL DATABASES

- National Priority List (NPL) – 1.5 miles
- Proposed NPL – 1.5 miles
- Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) – 1.0 mile
- CERCLIS – No Further Remedial Action Planned (CERCLIS-NFRAP) – 0.50 mile
- Corrective Action Reports (CORRACTS) – 1.5 miles
- Resource Conservation and Recovery Information System permitted treatment, storage, and disposal facilities (RCRIS-TSD) – 1.0 mile
- RCRIS small/large quantity generators of hazardous waste (RCRIS-SQG/RCRIS-LQG) – 0.75 mile
- Emergency Response Notification System (ERNS) – 0.5 mile
- Superfund/CERCLA Consent Decrees (CONSENT) – 1.5 miles
- Records of Decision (ROD) – 1.5 miles
- Delisted NPL Sites – 1.5 miles
- Facility Index System (FINDS) – 0.5 mile
- Hazardous Materials Information Reporting System (HMIRS) – 0.5 mile
- Material Licensing Tracking System (MLTS) – 0.5 mile
- Mines Master Index File (MINES) – 0.75 mile
- NPL Liens – 0.5 mile
- PCB Activity Database System (PADS) – 0.5 mile
- RCRA Administrative Action Tracking System (RAATS) – 0.5 mile
- Toxic Chemical Release Inventory System (TRIS) – 0.5 mile
- Toxic Substances Control Act (TSCA) – 0.5 mile
- FIFRA Section 7 Tracking Systems (SSTS) – 0.5 mile
- FIFRA/TSCA Tracking System (FTTS) – 0.5 mile

STATE/LOCAL DATABASES

- Michigan Department of Environmental Quality (MDEQ) Contaminated Sites List (SHWS)– 1.5 miles
- MDEQ Solid Waste Facilities Database (SWF/LF) – 1.0 mile
- MDEQ Leaking Underground Storage Tank Sites (LUST) – 1.0 mile
- MDEQ Underground Storage Tank Facility List (UST) – 0.75 mile
- MDEQ Baseline Environmental Assessment Database (BEA) – 1.0 mile
- MDEQ Indian Underground Storage Tanks on Indian Land (Indian UST) – 0.75 mile
- MDEQ Registered Aboveground Storage Tanks (AST) – 0.5 mile

EDR PROPRIETARY HISTORICAL DATABASES

- Former Manufactured Coal Gas Sites (Coal Gas) – 1.5 mile

OTHER DATABASES

- Oil/Gas Pipelines/Electric Transmission Lines – 2 miles
- Sensitive Receptors – 2 miles
- Flood Zone Data – 2 miles
- National Wetland Inventory (NWI) – 1.25 mile, No Coverage
- AQUIFLOW Information System – 2 miles

The EDR database report indicated the following search findings listed at the Site address:

- Lansing Powertrain Delta Engine is listed at 2901 South Canal Road in Lansing, Michigan 48921. The Site is on the LUST and UST databases. The LUST database indicates that the Facility Identification Number is 00013824. The LUST listing includes two Leak Numbers, C-1308-01 (Release Date: Oct. 15, 2001 and Closed Date: Nov. 19, 2001) and C-1954-90 (Release Date: Oct. 2, 1990 and Closed Date: Jan. 13, 1995), with Release Numbers listed as “Closed”. The UST database lists thirteen registered USTs for the Site, which were all removed between September of 1993 and November of 2001. The contents of the former USTs included hydraulic oil, way lube oil, diesel, motor oil, gasoline, hone coolant oil, and “Hazardous Substance”. Four of the thirteen former USTs were “spare-never used”. The capacity of nine of the thirteen former USTs was 20,000 gallons and there were two 10,000 gallon USTs and two 5,000 gallon USTs. The LUST database also identified an additional UST (Tank ID: SA-01) with a listed status of “Non-Registered Tank” with no other details reported.
- GMC – BOC Lansing Auto Div PH5 is listed at 2901 South Canal Road in Eaton, Michigan 48917. The Site is on the RCRIS-SQG, FINDS, TRIS, RCRIS-TSD, CORRACTS, and CERC-NFRAP databases. The CERCLIS-NFRAP listing indicates that the Site is not on the NPL, Discovery was completed on February 10, 1992, Preliminary Assessment was completed on May 22, 1992 and Archive Site was completed on December 18, 1995. The CORRACTS listing states that the EPA Identification Number for the Site is MID980700843, that an RFA has been completed and that an RFI is necessary. The Site has been assigned a medium corrective action priority. The RCRIS database indicates that the Site is a conditionally exempt small quantity generator of hazardous waste (EPA ID # MID980700843). The database lists eight written informal violations that occurred between June 18, 1985 and April 19, 2001. Violations included generator pre-transport, generator land ban, generator other, TSD financial responsibility, TSD other, and transporter other requirements. Compliance was reportedly achieved for all violations.

Inclusion on database listings does not necessarily indicate the presence of a REC. Based on the information provided in the EDR report and supplemented by other assessment findings, no RECs were noted in association of the Site. However, the two closed LUST release cases are considered Historic RECs. In addition, categorization of the entire Site as part of a medium-priority RCRA Corrective Action is considered a potential environmental compliance issue for the Site.

Based on review of the EDR database report several mapped sites and database listings were identified within 1.5 miles of the center of the Site. The following listings were identified:

- Lansing Lawn Snow is listed at 2530 S. Canal Road in Lansing, Michigan 48917. This facility is 0.125 to 0.25 west of the center of the Site. The facility is on the LUST and UST databases. The LUST database indicates that a release was reported on December 26, 2001 and that the LUST was closed on June 12, 2002. The facility had two former gasoline and one former diesel UST removed from the ground in April of 1990.

- CIS is listed at 7707 Rickle in Lansing, Michigan 48917. This facility is 0.25 to 0.5 mile west/southwest of the center of the Site. The facility is on the RCRIS-SQG and FINDS databases. The facility had no violations found.
- Central Dairy Supply, Inc. is listed at 2810 S. Canal Road in Lansing, Michigan 48917. This facility is 0.125 to 0.25 mile west of the center of the Site. The facility is on the LUST and UST databases. The LUST database indicates that a release was reported on June 14, 1990 and that the LUST was closed on June 8, 2000. The facility had one former gasoline UST removed from the ground in September of 1990.
- Fleet Image of Lansing, Inc. is listed at 7721 Lanac Street in Lansing, Michigan 48917. This facility is 0.25 to 0.5 mile west/southwest of the center of the Site. The facility is on the RCRIS-SQG and FINDS databases. The facility was listed as a small quantity generator of hazardous waste. The database reflects that the facility had three violations on record with written informal enforcement action.
- Shreve Steel is listed at 3333 S. Canal Road, Lansing, Michigan 48917. This facility is 0.5 to 1 mile south southwest of the center of the Site. The facility is on the LUST and UST databases. The LUST database indicates that a release was reported on November 13, 1995 and that the LUST was closed on July 15, 2003. The facility had one former diesel UST removed from the ground in November of 1995.
- Shreve Steel is listed at 7300 Millett Highway, Lansing, Michigan 48917. This facility is 0.5 to 1 mile south of the center of the Site. The facility is on the LUST database. The LUST database indicates two separate releases, reported on May 7, 1990 and June 11, 2001. The first release was closed on October 10, 1990 and the second release remains open.

EEC reviewed information on the above mapped properties based on information provided in EDR report, respective distances from the Site, hydrological relationships with respect to the Site, and/or lack of any reported releases or violations. Based on this information and without further details, none of the listed properties appear to represent RECs relative to the Site.

A total of 24 unmapped or “orphan” sites were identified in the Site vicinity in the EDR report. Based on available information, these Sites do not currently appear to present any RECs or other environmental issues relative to the Site.

2.3.2 REGULATORY AGENCY CONTACTS

EEC searched an online environmental database, conducted verbal inquiries to regulatory agencies, and completed a Freedom of Information Act (FOIA) file review to obtain environmental regulatory information regarding the Site. Regulatory correspondence is attached as Appendix B. The results of the record review and contacts are discussed in the following paragraphs:

- EEC searched the MDEQ Waste Data System (WDS) environmental database for environmental information on the Site. The following information was listed:
 - General Motors Corporation Powertrain Delta Engine was listed at 2901 Canal Road in Lansing, Michigan, Facility Identification Number MID980700843. The Site was listed as a Conditionally Exempt Small Quantity Generator of Hazardous Waste Stores on Site and as a Liquid Industrial Waste (LIW) Generator, with acknowledgement that the facility is currently idle.

- The Database lists five compliance actions consisting of Letters of Warning issued between June 18, 1985 and April 25, 2001. There were 16 Compliance Evaluations between May 1, 1984 and April 19, 2001 that included inspections, financial record reviews, and “other evaluation”.
- The WDS listed eight violations between June 19, 1985 and April 19, 2001. Six of the violations are listed as “Inactive-No regulatory citation identified, and two of the violations are listed as “TSD: violation of Financial Requirements”.
- One corrective action is listed as an Interim Status authority type and an issue and effective date of May 19, 1992.
- The Permit Series listing specifies a Part B review by the EPA on August 19, 1987, Final Closure Plan approval by EPA on August 22, 1988 and Final Closure Plan & Certification on February 19, 1991.
- EEC contacted the Division Chief of the MDEQ Waste and Hazardous Materials Division (WHMD) regarding the general compliance status and knowledge of pending issues for the Site:
 - The MDEQ representative stated that the WDS database is an up to date summary of all hazardous waste information for the Site. The contact stated that the WDS database indicates that the Site is a conditionally exempt small quantity generator of hazardous waste and that the designation was switched from a greater than 90 day hazardous waste storage facility in 1991. The Site “was probably a protective filer as a Treatment Storage and Disposal Facility (TSD), meaning that they originally filed thinking that they may need that amount of storage time in the future.” The contact suggested calling the Lansing District Supervisor to see if the Site was ever evaluated as a TSD, or if they never stored for greater than 90 days.
- EEC contacted a representative of the MDEQ Lansing District WHMD regarding the compliance status and knowledge of pending issues for the Site:
 - The MDEQ representative stated that he did not believe that the Site was ever inspected as a TSD, but it was as a hazardous waste generator. The Site had interim status as a TSD, but never received an operating license as a TSD and were not permitted as a TSD. There are no current or anticipated corrective actions for the Site, but the listing indicates that the Site is reportedly subject to potential corrective action liabilities in the future.
- EEC completed a review of the MDEQ Hazardous Waste Permits Unit file regarding the Site. The documents that were reviewed are referenced in Section 5.0 of this report and summarized below:
 - GMC Oldsmobile Division Plant 5 submitted a Notification of Hazardous Waste Activity to EPA on August 7, 1980 and submitted a Resource Conservation and Recovery Act (RCRA) Part A Permit application on November 14, 1980. The application listed the following process capacities and codes: 11,000 gallons container storage (S01); 6,000 gallons tank storage (S02) and 576,000 gallons per day wastewater treatment (T04). The application listed the following EPA Hazardous Waste Numbers: F001 (6 tons per year); D001 (10 tons per year; F017 (270 tons per year); and F018 (300 tons per year).
 - In 1983 waste oily sludge generated at Plants 1 and 3 and treated at the Site were found to be hazardous and the Site submitted a revised Part A permit application on June 2, 1983. The revised application listed process codes for container storage, tank storage waste oil treatment and EPA Hazardous Waste Numbers F001, D001, D007, and D018.

- The Site submitted a Part B Permit Application to the EPA on November 4, 1983, that included a hazardous waste container storage area for sixteen 55-gallon drums of 3M mastic waste (D001), paint thinner waste (D001, D007, D008), waste 1,1,1-trichloroethane (F001); and two 30,000-gallon USTs used to store waste oily sludge (D002, D007, D008 and D009) generated in wastewater treatment processes.
- The Site submitted an Act 64 Closure Plan for the hazardous waste container and tank storage areas to the Michigan Department of Natural Resources (MDNR, currently known as MDEQ) on July 5, 1983. BOC Lansing Delta Engine Plant submitted a second Closure Plan to the MDNR On December 18, 1987, instead of completing a hazardous waste license application. The Closure Plan stated that after closure, the container storage area will be used to accumulate hazardous wastes for 90 days or less, and the two tanks will be used to store non-hazardous waste oily sludges. The action will change the Site's status from that of an interim status hazardous waste storage facility to an under 90-day generator. The MDNR approved the Closure Plan on August 22, 1988.
- The Site submitted a 30-day notification-before-starting-work letter to the MDNR on July 13, 1990. On February 19, 1991, the MDNR released the Site from financial capabilities requirements for closure of the container and tank storage areas and liability coverage under Part 7 of the Act 64 rules. The MDNR specified that the release does not release GM from corrective action responsibilities under RCRA, as amended by the Hazardous and Solid Waste Amendments of 1984.
- The Site had several violations observed during MDNR inspections that were conducted from 1982 through 1989. The violations generally included deficiencies in inspection logs, training records, contingency plans and land disposal restriction notifications. All violations were resolved and no orders were issued.
- The Site had seven units regulated by air permits including 15 oil mist collectors serving wet machining operations (permit #806-81AI); a cup plug sealant (#516-89); a cam carrier cover used in cylinder head and cam carrier sealant operations (#842-89); paint spray booth filters used in routine painting (#1037-80); oil mist collectors servicing crankshaft machining operations (#799-85); various boilers burning either natural gas or formerly burning reclaimed waste oil (#1038-80); and waste oil reclamation exhaust serving various waste oil reclamation cookers and a fume scrubber (#1039-80).
- A Preliminary Assessment/Visual Site Inspection (PA/VSI) of the Site was prepared for EPA by PRC Environmental Management, Inc. (PRC) in 1992 (date not indicated, received by MDNR Waste Management Division June 4, 1992). The PA/VSI identified 10 Solid Waste Management Units (SWMUs) on the Site. SWMUs are defined as "any discernible unit at a RCRA facility in which solid wastes have been placed and from which hazardous constituents might migrate". The following list details the listed SWMUs:
 1. Hazardous waste accumulation area (Closed – less than 90-day accumulation);
 2. Empty drum storage area;
 3. Wastewater treatment system;
 4. WWTS filter cake roll-off box;
 5. Machining residues satellite accumulation area;
 6. Salvage dock;
 7. Pump back reservoirs;
 8. Drip pans

9. Adhesive applicator drip pan or box
 10. Waste paint thinner
- The PA/VSI only listed one of the SWMUs, the hazardous waste accumulation area, as an RCRA Hazardous Waste Management Unit (HWMU). A HWMU is defined as a unit that currently or formerly required submittal of an RCRA Part A or Part B permit application.
 - The PA/VSI identified one Area of Concern (AOC) at the Site. An AOC is defined as an area where a release to the environment of hazardous waste or constituents has occurred or is suspected to have occurred on a non-routine and nonsystematic basis. The Identified AOC included the former petroleum naphtha UST #13 described in Section 2.1.3. The H&A Phase I ESA report stated that “GM received documentation from the Michigan Department of Natural Resources in January 1995 that stated that the UST #13 release has been remediated to Type B cleanup levels” since the completion of the PA/VSI.
 - EEC contacted the Delta Township Utilities Department with respect to compliance with its Industrial Wastewater Discharge Permit #T27001. The utilities department representative stated that the permit is considered inactive and that the only current discharge from the Site is groundwater pumped from sumps in the basement of the main manufacturing Building (501/502). The official added that there are no current open violations for the Site.
 - EEC searched the MDEQ Water Division online database for information on existing permits. The database indicated that the Site has an active stormwater permit (Permit No. MIS310405) issued on May 8, 2003 and expiring on April 1, 2008.

2.3.3 WATER WELL SURVEY

No water supply wells were observed by EEC during the Site reconnaissance or known by Site personnel to be present at the Site. Four monitoring wells associated with the release case for UST #13 remain located northeast of the WWTP. Given that no further action for the release case was granted by MDEQ, the wells no longer serve a purpose and may be abandoned.

EDR conducted a records search of the Federal United States Geologic Survey (USGS), Federal FRDS Public Water Supply (PWS) System, and State databases of wells located within one mile of the Site. Results of the search indicated that no Federal USGS or FRDS wells were identified within one mile of the Site. Six state wells were identified within one mile of the Site, to the north, east and west of the Site, along Mt. Hope Highway. The wells were installed to depths ranging from 155 to 260 feet below ground level during the 1970s (five wells) and 1993 (one well).

2.3.4 UTILITY SERVICES

The Lansing Board of Water and Light provides electricity to the Site, and Consumers Energy provides natural gas. Water for consumption, processes, fire protection, and sanitary sewer service is supplied to the Site by Delta Township. Cooling water is provided to the Site from a chiller plant located offsite and operated by the GM Utility Group at the complex.

3.0 CONCLUSIONS

Encore Environmental Consortium, LLC (EEC) has conducted a Phase I Environmental Site Assessment (ESA) of the General Motors Corporation (GM) Delta Engine Plant located at 2901 Canal Road in Lansing, Eaton County, Michigan (herein referred to as “the Site”). The purpose of the Phase I ESA was to identify and document the current and historical environmental conditions of the Site and the presence of substances which indicate an existing, past, or potential adverse environmental impact to the air, soil, groundwater, or surface waters as a result of operations on the Site and adjacent and surrounding properties, and which indicate that further investigation may be necessary to evaluate potential environmental liabilities associated with the Site.

This Phase I ESA was performed in general accordance with the American Society of Testing and Materials (ASTM) E 1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and other client-specified requirements. The investigation was intended to identify Recognized Environmental Conditions (RECs) as defined by the ASTM E 1527-00 Standard.

For the purposes of this Phase I ESA, RECs have been separated into the following categories:

- General Property RECs - locations of potential or verified environmental conditions;
- Process Specific RECs - locations of potential or verified environmental conditions due to process sumps, trenches, piping, or other structures that have not been decommissioned and can not be inspected due to either lack of accessibility or due to the fact that the structure was filled with liquids or other materials that preclude visual inspection.

A. GENERAL PROPERTY RECs

This assessment has revealed evidence of the following General Property RECs in connection with the Site:

- A previous Phase I ESA of the Site provided a brief summary of an ethylene glycol spill, which was reported in the sidewalk heating system in July 1992. The release involved the loss of approximately 110 gallons of ethylene glycol. Recorded response actions reportedly included the removal of approximately 42 cubic yards of impacted soil, and subsequent replacement of ethylene glycol with propylene glycol. The Site contact provided one report and associated laboratory analytical results documenting soil sampling at the ethylene glycol release area. However, the report was very brief and lacked information regarding the nature of the release, remedial effort details, confirmation sampling locations, or if closure activities were anticipated. Therefore, the location of the spill is considered an REC.
- Storm water runoff from the two large parking lots on the west side of the Site is collected in catch basins and conveyed to a retention pond located to the north of the main production buildings (Buildings 501/502). Water from the north retention pond is pumped into a ditch located to the east of the pond using pumping equipment housed in Building 568. Water from the ditch is routed to a second retention pond located to the south of the wastewater treatment plant (WWTP; Building 561) via underground piping. The south retention pond discharges to Holly Drain, which is located to the east of the Site. According to the Site contact, a release occurred in approximately 1985 that resulted in a discharge of diesel fuel into the storm water management system. The release originated from a ruptured saddle tank on a semi tractor. Diesel fuel spilled on paved surfaces and entered a storm water catch basin and discharged into the south retention pond. The gate valve at the retention pond discharge point was promptly closed and the diesel

fuel was collected from the surface of the pond using absorbent material. The Site contact is not aware of any type of lining within either retention pond, nor is he aware of any additional investigation of the diesel fuel release or periodic maintenance pond dredging activities. Based on the potential impact to both ponds and the connecting ditch from parking lot runoff (automobile fluids) over a twenty-year period, as well as impact to the south pond from the diesel fuel release, the north and south storm water retention ponds and the connecting ditch are considered RECs.

B. PROCESS SPECIFIC RECs

This assessment has revealed evidence of the following Process Specific RECs in connection with the Site:

- A WWTP was operated at the Site in Building 561 to treat non-hazardous process wastewater prior to discharging to the Delta Township municipal sanitary sewer system. Numerous sumps, trenches, treatment tanks, and process piping runs are present within the Site WWTP. No releases from the WWTP were documented, and no evidence of a release was observed during the Site reconnaissance. However, the physical integrity of the numerous sumps, trenches, treatment tanks, and process piping runs present within the Site WWTP was not able to be verified, and there was no indication that previous investigations had been conducted in this area. Therefore, the WWTP is considered a REC.
- Process wastewater containing soluble oil based coolants and oil was conveyed from Buildings 501/502 and other locations to the WWTP for treatment via approximately 3,000 linear feet of underground piping. The process wastewater lines were purged as a part of initial decommissioning activities, though residuals likely exist within the piping. The integrity of the piping is not currently known. Therefore, the piping is considered an REC.
- Coolant recovery trenches are present in areas where wet machining was performed in Buildings 501/502. These trenches collect the coolant after use, and transfer used coolant to coolant recycling stations located in the basements and in areas throughout the manufacturing area. Due to the presence of residual coolants, the trenches could not be thoroughly inspected to evaluate their physical integrity. Therefore, the coolant recovery trenches are considered RECs.
- The harpoon system, which collected and transferred metal cutting swarf from the dry machining area to reclamation bins located at the salvage dock area, consists of several trenches and approximately twenty hydraulic rams. Approximately 84,000 square feet of trenches are included in the Harpoon system in Buildings 501/502. The trenches, as well as the hydraulic rams and associated hydraulic oil, aboveground storage tank (AST), and piping, have been drained, but have not been cleaned and purged. Metal swarf and oily residue were present in the trenches obscuring visual observation of the integrity of the concrete trench walls and base. Therefore, the harpoon system trenches are considered RECs.
- Site personnel indicated that a former paint booth was located within Buildings 501/502, and that the paint booth used a water spray curtain and collection pit to contain paint overspray. The former spray booth was decommissioned (date unknown) and the collection pit was filled to floor grade. The Site contact did not know details of waste handling and disposal practices associated with the former spray paint booth and did not know the location of the former structures within Buildings 501/502. The former paint spray booth and collection pit are considered RECs.
- Three basement areas exist within Buildings 501/502 occupying an area of approximately 30,000 square feet. Some concrete floor staining and minor concrete deterioration was observed within

the basements. The basements contain sumps and trenches which formerly collected coolants and other oils associated with the coolant recovery systems located in the basements. The integrity of the floors, sumps and trenches is not currently known. Therefore, the basement floors, sumps and trenches are considered RECs.

- A below grade sump exists in the Quality Assurance/Quality Control (QA/QC) lab located in Building 501 that was used to collect and pump laboratory waste to the WWTP. The integrity of the sump is not known. Therefore, the below grade sump is considered a REC.
- Oily chips, scrap parts, and oily debris were collected in the salvage dock area on the north end of Buildings 501/502. The salvage dock area contains floor drains (connected to the WWTP) in the train well area, salvage metal bins, and a paint booth and cleaning booth. The concrete floors of the salvage dock area appeared to be in good physical condition with no obvious damage, cracks or holes. However, a 1999 subsurface investigation indicated non-regulated oils (vegetable or synthetic) were observed beneath the floor slab when investigating a suspected process sewer line leak, and no integrity issues associated with the sewer line were identified. Although oils and elevated concentrations of TPH remained beneath the floor slab, TPH is not regulated by Michigan and remedial activities were not required by MDEQ at the time. The presence of the substances beneath the floor slab in this area with no verified source may indicate potential floor integrity issues. Therefore, the salvage dock area is considered an REC.

C. HISTORICAL RECS

This assessment has revealed evidence of the following historical RECs in connection with the Site:

- Documented releases from two former underground storage tanks (USTs #12 and #13) were identified at the Site. UST #12 was a 5,000 gallon premium unleaded gasoline tank that supplied a vehicle refueling dispenser pump and a day fuel storage tank. The day tank supplied gasoline to four engine test cells located within Building 501. The release from UST #12 was reported October 15, 2001. Following removal of the UST and day tank, approximately 40 cubic yards of impacted soil were removed and properly disposed. Detected concentrations of gasoline constituents were below the Michigan Department of Environmental Quality (MDEQ) Part 213 Soil and Groundwater Tier I Risk-Based Screening levels (RBSLs) for Residential and Commercial Standards. A closure report was submitted to the MDEQ in November 2001. UST #13, formerly located to the northeast of the WWTP, was a 5,000 gallon tank that stored a product containing 54 percent petroleum naphtha. The release from UST #13 was reported in September of 1990. Laboratory analytical results indicated the presence of xylenes and total petroleum hydrocarbons (TPH) in soil and methylene chloride in groundwater. A previous Phase I ESA of the Site described investigations of UST #13 performed by ABB Environmental Services, Inc. (ABB). ABB reportedly concluded that the site can be closed because the data supports the conclusion that “groundwater has not been impacted at the site, and with the exception of the excavation water sample, all samples were below Type B criteria”. The previous Phase I ESA report further described that GM received documentation from the Michigan Department of Natural Resources in January 1995 that stated that the release had been remediated to Type B cleanup levels. Releases at former USTs #12 and #13 meet the ASTM definition of historical RECs.

D. OTHER ENVIRONMENTAL ISSUES

In addition to the ASTM standard, this assessment evaluated other client-specified criteria for the Site. This assessment has revealed the following other environmental issues:

- According to Site personnel, there are no pending hazardous waste violations relevant to the Site. No RECs were noted in association with hazardous waste at the Site. The Site is currently categorized as a medium-priority RCRA Corrective Action facility, based on the fact that the Site was previously an interim status hazardous waste Treatment, Storage and Disposal (TSD) facility. The Site had initiated the licensing process as a TSD in the 1980s for a hazardous waste container storage area and two 30,000-gallon USTs used to store waste oily sludge. The container and tank storage areas were closed as greater than 90-day accumulation facilities in 1991. According to Michigan Department of Environmental Quality (MDEQ) officials, there are no current or anticipated corrective actions associated with the two storage areas. However, there is potential corrective action liability in the future.
- Known and suspected asbestos containing materials (ACMs) have been identified at the Site. Based on previous survey results, asbestos abatement would only be required for the demolition or remodeling of the Site. EEC did not observe evidence of damaged ACM at the Site. Therefore, no RECs were noted in association with ACMs. However, the confirmed presence of ACMs identified during previous investigations is considered a Site development issue.
- A lead-based paint survey was not conducted as part of this Phase I ESA. However, a lead-based paint survey conducted by Barnes Engineering, Inc. during March 2001. As a result of the survey, a number of paints at the Site were found to contain lead at concentrations ranging from 0.01 milligrams per cubic centimeter to 4.5 milligrams per cubic centimeter. Paints containing lead at the Site included 18 out of 18 colors identified in the main plant and office, 15 out of 18 colors identified in the WWTP, 4 out of 4 colors identified in the storm water pump house, 7 out of 7 colors identified in the powerhouse, and 3 colors identified in the electrical switch building. The United States Environmental Protection Agency (EPA) and Department of Housing and Urban Development (HUD) define lead-based paint hazardous if it exceeds 1.0 milligrams per cubic centimeter. Forty-two samples exceeded 1.0 milligrams per cubic centimeter. Based on EEC's reconnaissance of the Site (May 2004), to the extent accessible painted surfaces at the Site appeared to generally remain in good condition. Therefore, no RECs were noted in association with lead-based paint at the Site. However, the confirmed presence of lead-based paint is considered a Site development Issue.
- A wetland survey or delineation was not conducted for this Phase I ESA. The EDR report indicated that 2002 National Wetlands Inventory (NWI) data for the Site and surrounding area was not available from the U.S. Fish and Wildlife Service. Site personnel stated that regulated wetlands are not known to exist on the Site. EEC observed three relatively small potential wetland areas (cattails and willows) on the northern vacant portion of the Site at the time of the Site reconnaissance. Each of the three areas appeared to be no larger than approximately 900 square feet. The nearest surface water body is Holly Drain, located adjoining the eastern boundary of the Site. No RECs were noted in association with wetland areas. However, the presence of small isolated potential wetland areas on the northern vacant portion of the Site may present a Site Development issue.

4.0 QUALIFICATIONS AND LIMITATIONS

This Report was prepared pursuant to the Master Services agreement between ENCORE Corporate Remediation Company and Encore Environmental Consortium, LLC (“EEC”), dated April 2001. All uses of this Report are subject to, and deemed acceptance of, the conditions and restrictions contained in the referenced Agreement. The observations and conclusions described in this Report are based solely on the scope of services provided pursuant to the Agreement. EEC has not performed any additional observations, investigations, studies, or other testing not specified in the Agreement. EEC shall not be liable for the existence of any condition the discovery of which would have required the performance of services not authorized under the Agreement.

This Report is prepared for the exclusive use of General Motors Corporation. Use of this Report by any person or entity other than General Motors Corporation shall be at such other person’s or entity’s sole risk, and shall be without legal exposure or liability to EEC.

This Report reflects site conditions observed and described by records available to EEC as of the date of the Report. The passage of time may result in significant changes in site conditions or technology which could alter the findings and/or recommendations of the Report. Accordingly, EEC shall bear no liability for deviations from observed conditions or available records after the date of the Report.

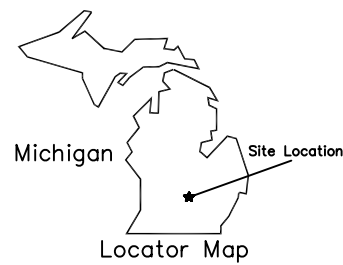
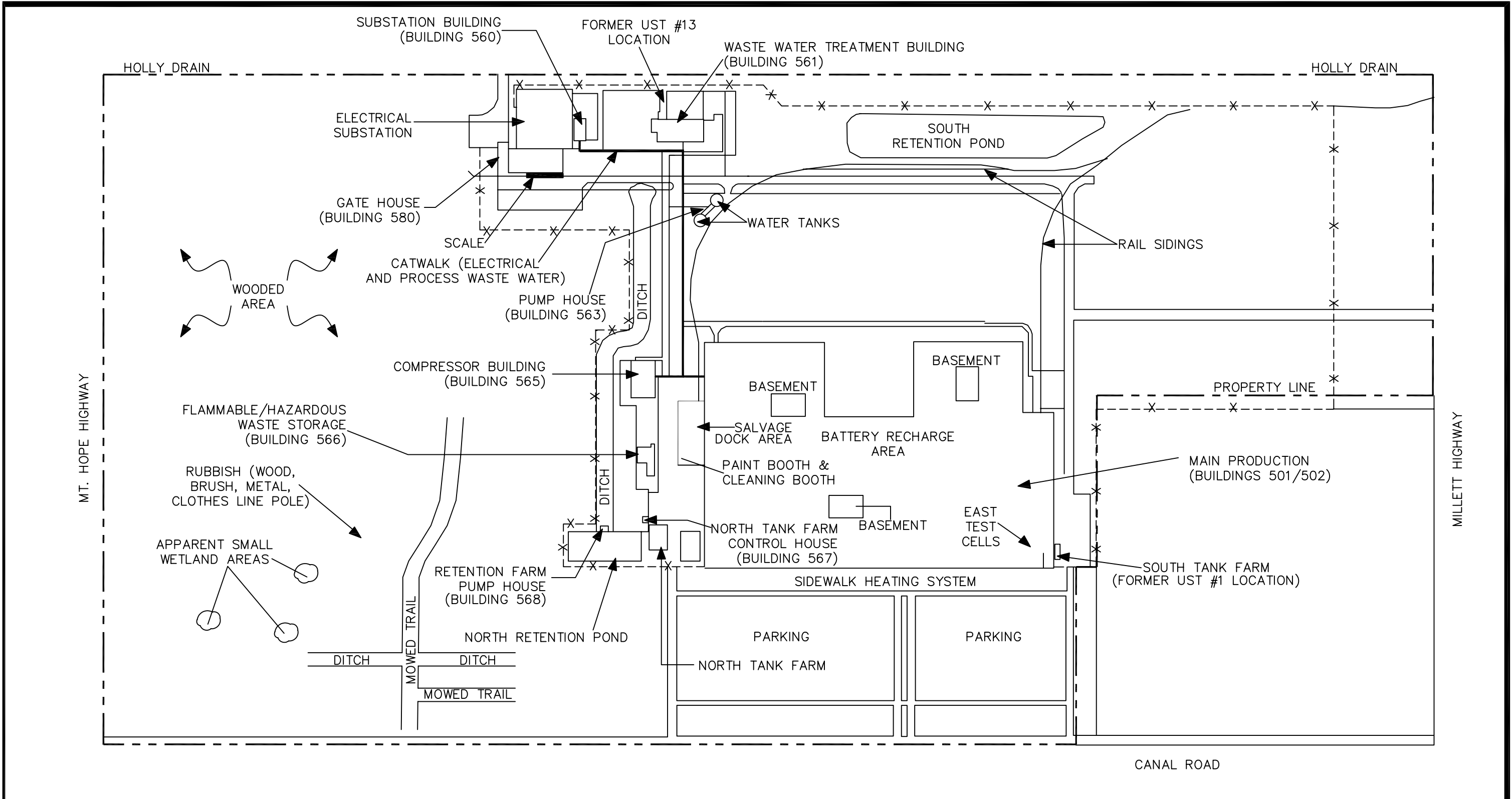
EEC shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld or not fully disclosed at the time the assessment was conducted.

5.0 REFERENCES

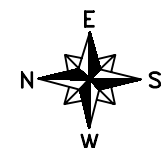
1. NTH Consultants, Ltd., Report on Supplemental Subsurface Exploration, Ethylene Glycol Spill Area and North Tank Farm Area, GM B.O.C. Lansing Plant No. 5, Lansing, Michigan, prepared for McNamee Industrial Services; October 29, 1992.
2. Soil and Materials Engineers, Inc., Suspected Process Sewer Leak at the General Motors Powertrain Plant, 2901 South Canal Road, Lansing, Michigan, prepared for General Motors Corporation; August 5, 1999.
3. Barnes Engineering, LLC, Lead – Paint Identification Survey Report of the General Motors Corporation Delta Engine Plant, prepared for General Motors Corporation; March 5, 2001.
4. Barnes Engineering, LLC, Asbestos Identification Survey Report of the General Motors Corporation Delta Engine Plant, prepared for General Motors Corporation; March 8, 2001.
5. Haley & Aldrich, Inc., Phase I Environmental Site Assessment of the Delta Engine Plant, 2901 South Canal Road, Lansing, Michigan, prepared for General Motors Corporation; June 2001.
6. Blasland, Bouck & Lee, Inc., Underground Storage Tank Closure Report, Lansing Plant #5, 2901 South Canal Road, Lansing, Michigan, prepared for Environmental Corporate Remediation Company, Inc.; November 2001.
7. ATC Associates, Inc., Visual Asbestos Identification Survey of the General Motors Delphi Engine Plant, 2901 South Canal Road, Lansing, Michigan; May 2004.
8. Encore Environmental Consortium, LLC, review of various Michigan Department of Environmental Quality Hazardous Waste Permits Unit files (see reference list in Appendix F) for General Motors Corporation; September 8 & 10, 2004.

APPENDIX A

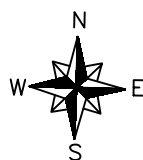
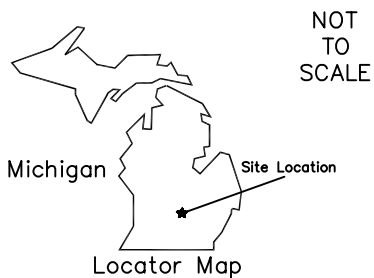
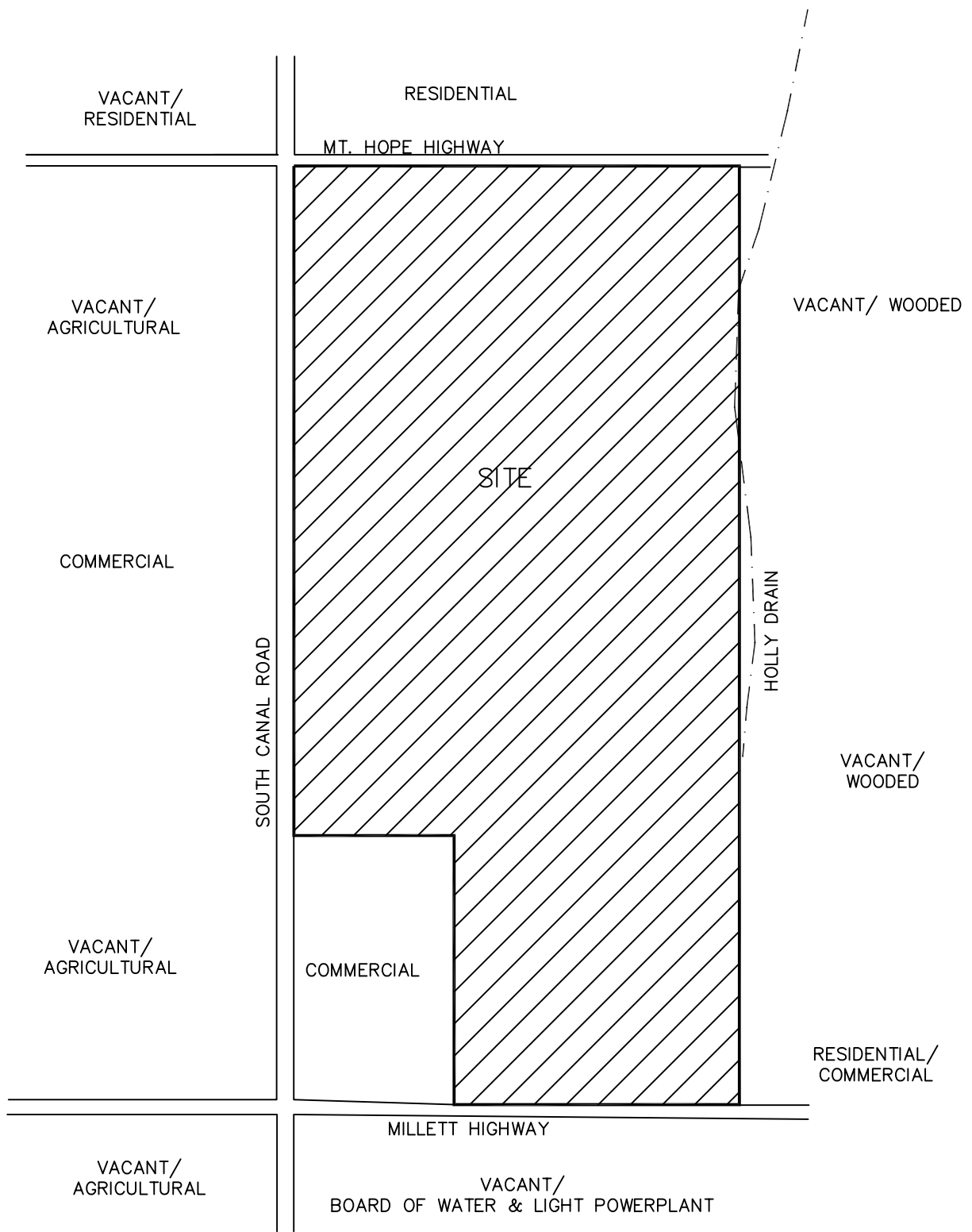
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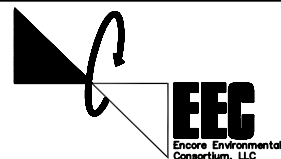


General Motors Corporation Delta Engine Plant 2901 South Canal Road Lansing, Michigan	
SITE MAP	
	FIGURE
	2



General Motors Corporation Delta Engine Plant
2901 South Canal Road
Lansing, Michigan

SURROUNDING PROPERTIES MAP



FIGURE

3

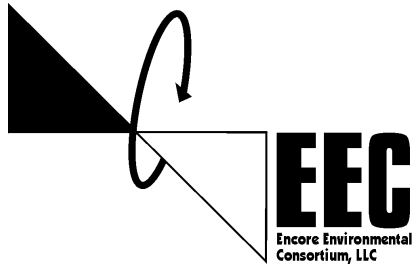
APPENDIX B

Contacts and Correspondence

**General Motors Corporation
Delta Engine Plant 5
2901 South Canal Road
Lansing, MI**

Contact List

NAME	FIRM / ADDRESS	TITLE	PHONE	EMAIL/INTERNET ADDRESS
Fred Rindhage	General Motors Worldwide Facilities Group Remediation Team	Program Manager	248-753-5790	http://www.Fred.Rindhage@gm.com
Kurt Blizzard	General Motors Worldwide Facilities Group Remediation Team	Site Contact	517-885-1155	http://www.Kurt.Blizzard@gm.com
Doug Gray	General Motors	Plant Decommissioning	313-549-0048	
Internet	MDEQ Waste Data System Database	---	---	http://www.deq.state.mi.us/WDSPI
Steve Buda	MDEQ – Waste and Hazardous Materials Division, Hazardous Waste Permits Unit	Division Chief	517-373-7924	---
Bill Yocum	MDEQ - Waste and Hazardous Materials Division	---	517-335-6218	---
Internet	MDEQ Water Division Storm Water Permit Database	---	---	http://www.michigan.gov/deq/0,1607,7-135-3313_3682_3713-10780--,00.html
Internet	MDEQ Air Division Renewable Operating Permit (ROP) Database	---	---	http://www.deq.state.mi.us/aps/downloads/rop/ROPlist/Sources_by_name.pdf
Graham Chapman	Delta Township Utilities Department	---	517-323-8570	---



Documentation of Communication

Date August 24, 2004

Time 10:00 AM

Type of Communication Internet

EEC Representative Eric S. Kemmer

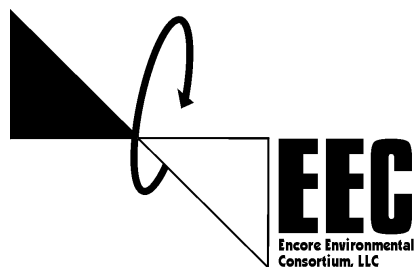
Source of Communication (Organization) MDEQ – Waste Data System (WDS) Database

Source / Organization Contact NA

Internet Address <http://www.deq.state.mi.us/WDSPI>

Specific Subject Matter: GM Delta Engine Plant 5, 2901 South Canal Road, Lansing, MI

EEC searched the database and printed hazardous waste information relevant to the Site.



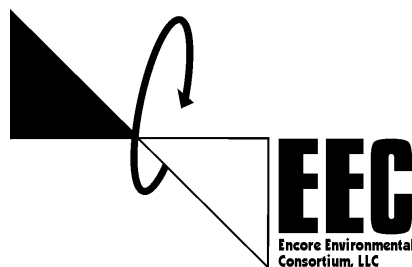
Documentation of Communication

Date	August 26, 2004
Time	9:40 AM
Type of Communication	Telephone (517) 323-8570

EEC Representative	Eric S. Kemmer
Source of Communication (Organization)	Delta Township Utilities Department
Source / Organization Contact	Mr. Graham Chapman
Internet Address	NA

Specific Subject Matter: GM Delta Engine Plant 5, 2901 Canal Road, Lansing, MI

The representative indicated that the Industrial Wastewater Discharge Permit number for the Site is #T27001. The Site is currently only discharging groundwater to the sewer system. The groundwater is generated from sumps in the basements of the main manufacturing building. The permit is currently inactive. There are currently no open permit violations for the Site.



Documentation of Communication

Date August 30, 2004
Time 8:00 AM
Type of Communication Meeting and Site Reconnaissance

EEC Representative Eric S. Kemmer
Source of Communication (Organization) General Motors Corporation
Source / Organization Contact Mr. Kurt Blizzard
Internet Address NA

Specific Subject Matter: GM Delta Engine Plant 5, 2901 South Canal Road, Lansing, MI – Page 1

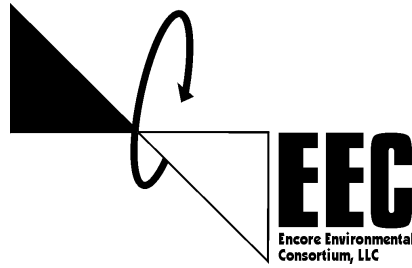
EEC conducted a meeting with Mr. Blizzard regarding the history and use of the Site and Mr. Blizzard accompanied the EEC representative on a reconnaissance of the Site. The following information was obtained from Mr. Blizzard:

The Site was constructed by GM in 1980 and operated as a diesel engine manufacturing and assembly facility from approximately 1981 through 1985. The Site was re-tooled in 1986 and gasoline engines were manufactured/assembled at the Site from 1987 through 2001. The Site has been idle since 2001. The Lansing Board of Water and Light owns the electrical substation equipment, but the land is owned by GM and is part of the Site. There are no groundwater supply wells on the Site and water and sanitary sewer service is provided by Delta Township. There are still groundwater monitor wells located near the wastewater treatment plant (WWTP) that were associated with the closure of underground storage tank (UST) #13.

Three basement areas are located in Building 501/502 and the basement drainage systems collect groundwater that seeps into the structures. The only current discharge from the Site is the groundwater from the basements, which is pumped to the WWTP and discharged to the sanitary sewer system. Prior to Site decommissioning, treated process water was discharged to the sanitary sewer system.

The Site has been closed as a Treatment, Storage & Disposal (TSD) facility (former hazardous waste storage >90 days), but still falls under potential Resource Conservation and Recovery Act (RCRA) corrective actions. There are no current specific corrective action requirements, but investigation of solid waste management units (SWMUs) could be required in the future.

NOTICE: The information contained in this communication is confidential and privileged proprietary information intended only for the individual or entity to whom it is addressed. Any unauthorized use, distribution, copying or disclosure of this communication is prohibited. If you have received this communication in error, please contact the sender immediately.



Documentation of Communication

Specific Subject Matter: GM Delta Engine Plant 5, 2901 South Canal Rd., Lansing, MI –Page 2

All former underground storage tanks (USTs) have been removed from the Site and have been closed. With the exception of diesel above ground storage tanks (ASTs) in Buildings 563 and 568, and possibly the AST at the north tank farm, all ASTs on the Site have been emptied and cleaned. With few exceptions (some hydraulic and motor), fluids within all production equipment, piping and coolant recovery systems has been emptied, though there is probably some residual remaining.

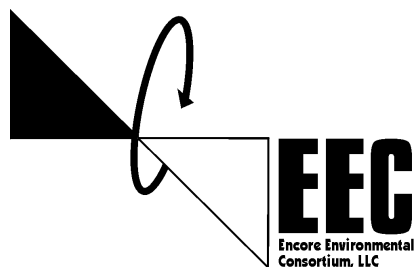
No wetland areas are known to exist at the Site. With the exception of potential future RCRA liability, there are no known environmental compliance issues, violations, administrative orders or cleanup requirements associated with the Site.

There is no known polychlorinated biphenyl (PCB) containing equipment onsite and sampling of equipment/hydraulic oils has not identified any equipment containing PCBs. In addition, the Site structures were constructed after the date that the GM ban on the use of PCB containing materials was implemented.

A release occurred in approximately 1985 that resulted in a discharge of diesel fuel into the storm water management system. The release originated from a ruptured saddle tank on a semi tractor. Diesel fuel entered a storm water catch basin and discharged into the south retention pond. The gate valve at the retention pond discharge point was promptly closed and the diesel fuel was collected from the surface of the pond using absorbent material. Because the release from the saddle tank occurred on a paved surface in close proximity to the catch basin, and the release area was promptly cleaned up, soil was not impacted at the release point.

A former paint booth was located within Building 501/502 that used a water spray curtain and collection pit to contain paint overspray. The former spray booth was decommissioned (date unknown) and the collection pit filled to floor grade. The Site contact did not know details of waste handling and disposal practices associated with the former spray booth and did not know the location of the former structures. However, the contact did supply a copy of a portion of a figure that depicted the “Engine Paint Spray Pit” (abandoned pit, sand filled, cemented floor) and an adjoining depressed floor area. Based on the partial figure, the former spray booth appears to have been located near the southwest corner of Building 501/502.

Mr. Blizzard provided copies of two previous reports that documented an ethylene glycol release from a sidewalk heating system and an investigation of a suspected process sewer leak in the salvage dock area of Building 501/502.



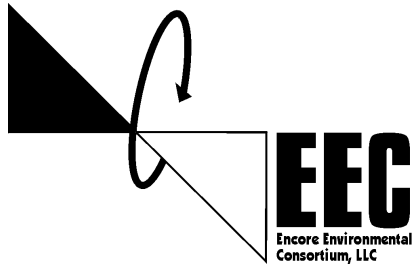
Documentation of Communication

Date August 31, 2004
Time 1:20 PM
Type of Communication Telephone (517) 373-7924

EEC Representative	Eric S. Kemmer
Source of Communication (Organization)	MDEQ – Waste and Hazardous Materials Division, Hazardous Waste Permits Unit
Source / Organization Contact	Mr. Steve Buda, Division Chief
Internet Address	NA

Specific Subject Matter: GM Delta Engine Plant 5, 2901 South Canal Road, Lansing, MI

The MDEQ representative indicated that the Waste Data System (WDS) database is an up to date summary of all hazardous waste information for the Site. Mr. Buda stated that the database indicates that the Site is a conditionally exempt generator of hazardous waste and that the designation was switched from a greater than 90 day hazardous waste storage facility in 1991. The Site “was probably a protective filer as a Treatment, Storage, and Disposal (TSD) facility, meaning that they originally filed thinking that they may need that amount of storage time in the future”. Mr. Buda suggested calling Mr. Lee Carter (517) 335-6161), MDEQ Lansing District Supervisor, to see if the Site was ever evaluated as a TSD, or if they historically stored hazardous waste for greater than 90 days.



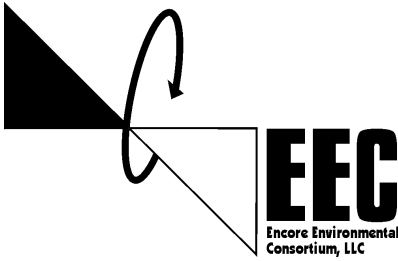
Documentation of Communication

Date August 31, 2004
Time 1:40 PM
Type of Communication Telephone (517) 335-6218

EEC Representative Eric S. Kemmer
Source of Communication (Organization) MDEQ – Waste and Hazardous Materials Division
Source / Organization Contact Mr. Bill Yocum
Internet Address NA

Specific Subject Matter: GM Delta Engine Plant 5, 2901 South Canal Road, Lansing, MI

The MDEQ representative stated that he did not believe that the Site was ever inspected as a Treatment, Storage, Disposal (TSD) facility, but it was inspected as a hazardous waste generator. The Site formerly had an interim status as TSD, but never received an operating license as a TSD and was not permitted as a TSD. There are no current or anticipated corrective actions for the Site, but the Site is subject to potential corrective action liabilities in the future.



Transmitted Via Facsimile

September 3, 2004

Ms. Louise Taylor
Michigan Department of Environmental Quality – Hazardous Waste Permits Unit
Lansing, MI 48909

Fax Number: (517) 373-4797

Re: **Freedom of Information Act Request**
General Motors Corporation, Delta Engine Plant
2901 South Canal Road
Lansing, MI

Dear Ms. Taylor:

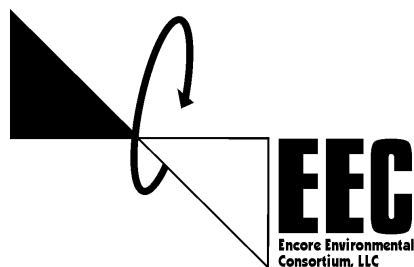
Pursuant to our telephone conversation conducted on September 3, 2004, I am writing this letter is to request an appointment to review all available information pertaining to Part A and Part B permit applications, withdrawal of applications, interim status as a greater than 90 day hazardous waste storage facility, and Closure Plan approval and certification for the above-referenced site. The site is currently an idle facility with identification number MID980700843. Once I have reviewed the files, I would like to obtain copies of select documents. As we discussed during our telephone conversation, I will come to your office on September 8, 2004 in the afternoon to review the requested information.

Please contact me at (734) 668-1133, extension 136, or on my cell phone at (313) 617-0902 with any questions.

Sincerely,

ENCORE Environmental Consortium, LLC

Eric S. Kemmer

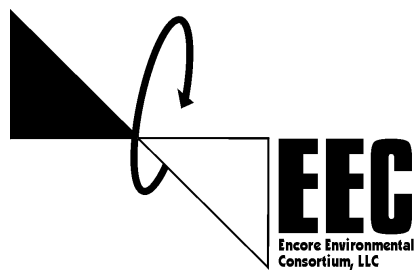


Documentation of Communication

Date	October 4, 2004
Time	10:00 AM
Type of Communication	Internet
EEC Representative	Eric S. Kemmer
Source of Communication (Organization)	MDEQ – Air Quality Division Permit Database
Source / Organization Contact	NA
Internet Address	http://www.deq.state.mi.us/aps/downloads/rop/ROPlist/Sources_by_name.pdf

Specific Subject Matter: GM Delta Engine Plant 5, 2901 South Canal Road, Lansing, MI

EEC searched the Air Quality Division Renewable Operating Permit database. The Site was not listed on the database.



Documentation of Communication

Date October 4, 2004

Time 10:00 AM

Type of
Communication Internet

EEC Representative Eric S. Kemmer

Source of
Communication MDEQ – Water Division Permit Databases
(Organization)

Source / Organization NA
Contact

Internet Address http://www.michigan.gov/deq/0,1607,7-135-3313_3682_3713-10780--,00.html

Specific Subject Matter: GM Delta Engine Plant 5, 2901 South Canal Road, Lansing, MI

EEC searched the NPDES individual and storm water databases. The Site was not listed on the NPDES individual permit database. EEC printed storm water permit information relevant to the Site.

APPENDIX C

Photographs



Photograph 1: Building 501/502 production area.



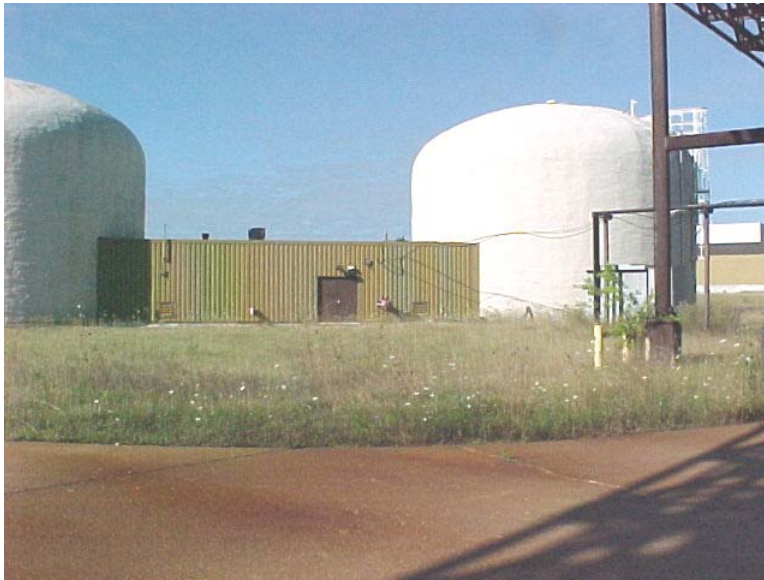
Photograph 2: Building 501/502 production area.



Photograph 3: Paint booth located on north end of building 501/502.



Photograph 4: Catwalk and Waste Water Treatment Building (#561).



Photograph 5: Water tanks and Pump House(#563).



Photograph 6: Basement of Waste Water Treatment Building (#561).



Photograph 7: Below grade portion of Waste Water Treatment Building (east side of building).



Photograph 8: South retention pond facing south.



Photograph 9: Southeast corner of Site.



Photograph 10: East side of building 502 facing northwest.



Photograph 11: Rail siding, water tanks and Waste Water Treatment Building, facing north.



Photograph 12: Scale (foreground) and Gate House (#580).



Photograph 13: Electrical substation and building (#560).



Photograph 14: Catwalk facing southwest.



Photograph 15: Compressor Building (#565) facing west.



Photograph 16: Compressor cooling towers.



Photograph 17: Combustible/Flammable material and Hazardous Waste Storage Building (#566).



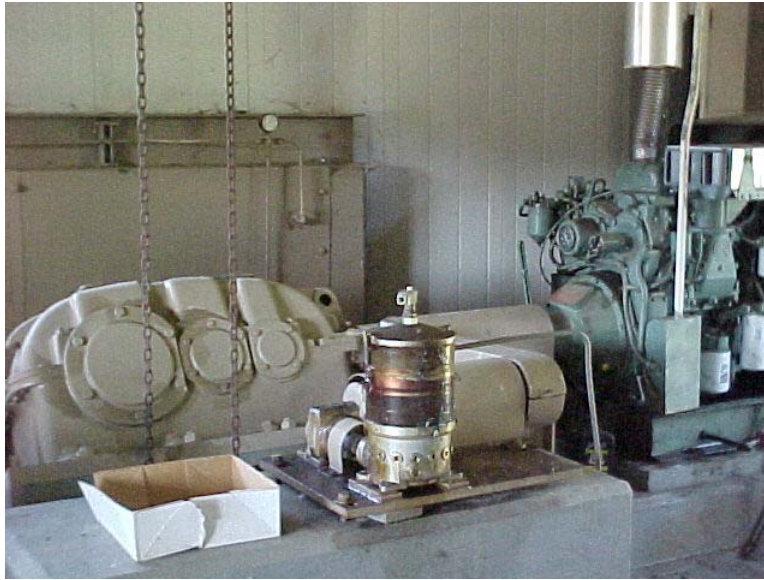
Photograph 18: Interior of Building 566.



Photograph 19: North retention pond pump house (#568) and wooded northern portion of the Site (background).



Photograph 20: Diesel storage tank in Building 568.



Photograph 21: Diesel engine/pump in Building 568.



Photograph 22: North retention pond.



Photograph 23: North tank farm.



Photograph 24: Diesel tank and containment pad adjoining the east side of the north tank farm and the tank farm control house (#567, background).



Photograph 25: Adjoining commercial property on the west side of Canal Road.



Photograph 26: Adjoining commercial property on the west side of Canal Road.



Photograph 27: Parking lot on the western edge of the Site.



Photograph 28: Building 501/502 facing southeast.



Photograph 29: Northern portion of the Site.



Photograph 30: Northern portion of the Site.



Photograph 31: Northern portion of the Site.



Photograph 32: Apparent wetland vegetation on northern portion of the Site.

APPENDIX D

Environmental Database Report



The EDR Radius Map with GeoCheck®

**GM Lansing Plant #5-Former Delta Eng
2901 South Canal Road
Lansing, MI 48917**

Inquiry Number: 1250829.2s

August 16, 2004

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

2901 SOUTH CANAL ROAD
LANSING, MI 48917

COORDINATES

Latitude (North): 42.705600 - 42° 42' 20.2"
Longitude (West): 84.657500 - 84° 39' 27.0"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 691852.1
UTM Y (Meters): 4730569.0
Elevation: 872 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 42084-F6 DIMONDALE, MI
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

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

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
LANSING POWEERTRAIN DELTA ENGINE 2901 S CANAL RD LANSING, MI 48921	LUST UST	N/A
GMC-BOC LANSING AUTO DIV PH5 2901 SOUTH CANAL ROAD EATON, MI 48917	RCRIS-SQG FINDS TRIS RCRIS-TSD CORRACTS CERC-NFRAP	48921BCPWR29

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 ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System

STATE ASTM STANDARD

SWF/LF..... Solid Waste Facilities Database
HIST LF..... Inactive Solid Waste Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
UMTRA..... Uranium Mill Tailings Sites
FUDS..... Formerly Used Defense Sites
INDIAN RESERV..... Indian Reservations
US BROWNFIELDS..... A Listing of Brownfields Sites
DOD..... Department of Defense Sites
RAATS..... RCRA Administrative Action Tracking System
TSCA..... Toxic Substances Control Act
SSTS..... Section 7 Tracking Systems
FTTS INSP..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Tanks
DEL SHWS..... Delisted List of Contaminated Sites
PEAS..... Pollution Emergency Alerting System
DRYCLEANERS..... Drycleaning Establishments

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

BROWNFIELDS DATABASES

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

EXECUTIVE SUMMARY

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

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

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

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

FEDERAL ASTM STANDARD

RCRIS: Resource Conservation and Recovery Information System. RCRIS 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. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/15/2004 has revealed that there are 7 RCRIS-SQG sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>FLEET IMAGE OF LANSING INC</i>	<i>7721 LANAC ST</i>	<i>1/4 - 1/2WSW 8</i>		<i>18</i>
USA TODAY - LANSING FACILITY	2960 ENA DRIVE	1/2 - 1 WSW C11		20
<i>LANSING STATE JOURNAL DELTA FA</i>	<i>2960 ENA ST</i>	<i>1/2 - 1 WSW C12</i>		<i>20</i>
ECONO TRAVEL LLC	7300 MILLETT HWY	1/2 - 1 S D13		20
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CIS	7707 RICKLE	1/4 - 1/2WSW B4		16
<i>NATIONWIDE TRUCK BROKERS - LAN</i>	<i>6601 SLOAN HWY</i>	<i>1/2 - 1 ESE 18</i>		<i>23</i>
KENNEDY MASONRY (E)	6554 SLOAN	1/2 - 1 ESE 20		25

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2003 has revealed that there is 1 ERNS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported		1/4 - 1/2SSW 9		19

EXECUTIVE SUMMARY

STATE ASTM STANDARD

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, has revealed that there is 1 SHWS site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
REITH-RILEY	4150 CREYTS ROAD	1 - 2 SE	28	41

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 06/12/2004 has revealed that there are 11 LUST sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CENTRAL DAIRY SUPPLY, INC	2810 S CANAL RD	1/4 - 1/2 WSW	B7	18
SHREVE STEEL	3333 S CANAL RD	1/2 - 1 SSW	10	19
SHREVE STEEL	7300 MILLETT HWY	1/2 - 1 S	D16	22
CONSOLIDATED FREIGHTWAYS	6726 MILLETT HWY	1/2 - 1 SE	21	25
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LANSING LAWN SNOW	2530 S CANAL RD	1/8 - 1/4 W	3	15
CLARK FOUNDATION	6851 MILLETT HWY	1/2 - 1 SE	19	23
MEIJER DC-93	2901 CREYTS RD	1/2 - 1 E	E22	26
COCA-COLA BOTTLING CO OF MI	3300 S CREYTS RD	1/2 - 1 ESE	F24	28
MEIJER DC 86	3301 S CREYTS RD	1/2 - 1 ESE	F25	30
MEIJER DC-512	3307 S CREYTS RD	1/2 - 1 ESE	F26	39
GENERAL CAR AND TRUCK LEASING	3520 S CREYTS	1/2 - 1 SE	27	40

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

A review of the UST list, as provided by EDR, and dated 06/12/2004 has revealed that there are 7 UST sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CENTRAL DAIRY SUPPLY, INC	2810 S CANAL RD	1/4 - 1/2 WSW	B6	17
SHREVE STEEL	3333 S CANAL RD	1/2 - 1 SSW	10	19
SHREVE STEEL	7300 MILLETT HWY	1/2 - 1 S	D15	21
CONSOLIDATED FREIGHTWAYS	6726 MILLETT HWY	1/2 - 1 SE	21	25
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LANSING LAWN SNOW	2530 S CANAL RD	1/8 - 1/4 W	3	15

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MILLETT HIGHWAY ASH STORAGE	7101 MILLETT HWY	1/2 - 1 SSE	17	22
CLARK FOUNDATION	6851 MILLETT HWY	1/2 - 1 SE	19	23

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 06/16/2004 has revealed that there are 2 BEA sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
7300 MILLETT HIGHWAY	7300 MILLETT HIGHWAY	1/2 - 1 S	D14	21
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
2930 S. CREYTS ROAD	2930 S. CREYTS ROAD	1/2 - 1 E	E23	28

FEDERAL ASTM SUPPLEMENTAL

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/08/2004 has revealed that there are 2 FINDS sites within approximately 0.5 miles of the target property.

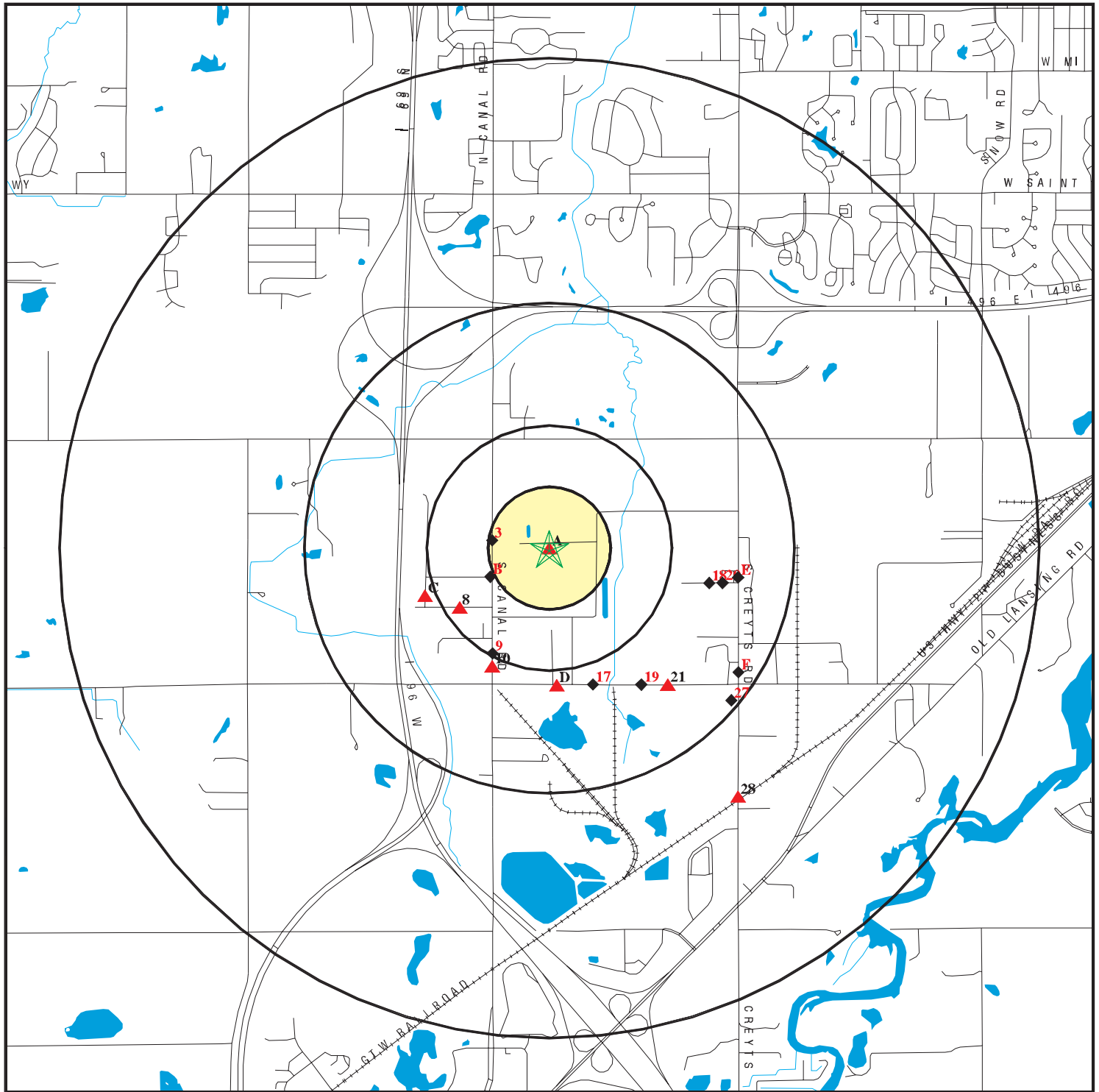
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FLEET IMAGE OF LANSING INC	7721 LANAC ST	1/4 - 1/2WSW 8		18
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CIS	7707 RICKLE	1/4 - 1/2WSW B5		17

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
LANSING MALL	FTTS INSP
GRAND LEDGE CLAY PROD PIT	SHWS, CERC-NFRAP
PARSONS CHEMICAL WORKS, INC.	SHWS
BOC PLANT#3-FRMR PLATING AREA	SHWS
HAMPTONS DISPOSAL	HIST LF
DAN NEUENSCHWANDER FARM	UST
MIDOT BRIDGE (S03-23081)	RCRIS-SQG
MIDOT BRIDGE (S04-23081)	RCRIS-SQG
MI DEPT/TRANSPORTATION BRIDGE S02 &S02-4	RCRIS-SQG, FINDS
MI DEPT/TRANSPORTATION BRIDGE S16-23063	RCRIS-SQG, FINDS
MI DEPT/TRANSPORTATION BRIDGE S06-23152	RCRIS-SQG, FINDS
GMC OLDSMOBILE DIV PLT 5	RCRIS-SQG, FINDS
MI DEPT/TRANSPORTATION BRIDGES S01,S17-3	RCRIS-SQG, FINDS
BRUCE CARTAGE INC	RCRIS-SQG
VOORHORST TRUCKING (E)	RCRIS-SQG
SHERATON INN LANSING FUJI	RCRIS-SQG, FINDS
LANSING BOARD OF WATER & LIGHT	RCRIS-SQG
I-96 & I-496 DELTA TOWNSHIP	ERNS
601 ISLAND AVE POWER PLANT	ERNS
LANSING ST AND SAGINAW ST	ERNS
GENERAL MOTORS CORP - DELTA ASSEMBLY PLT	FINDS
VACANT PARCEL ON M-43	BEA
LANSING CONNECTING RAILROAD ROW (FORMER)	BEA
FORD RAWSONVILLE PLANT	DEL SHWS

OVERVIEW MAP - 1250829.2s - EEC



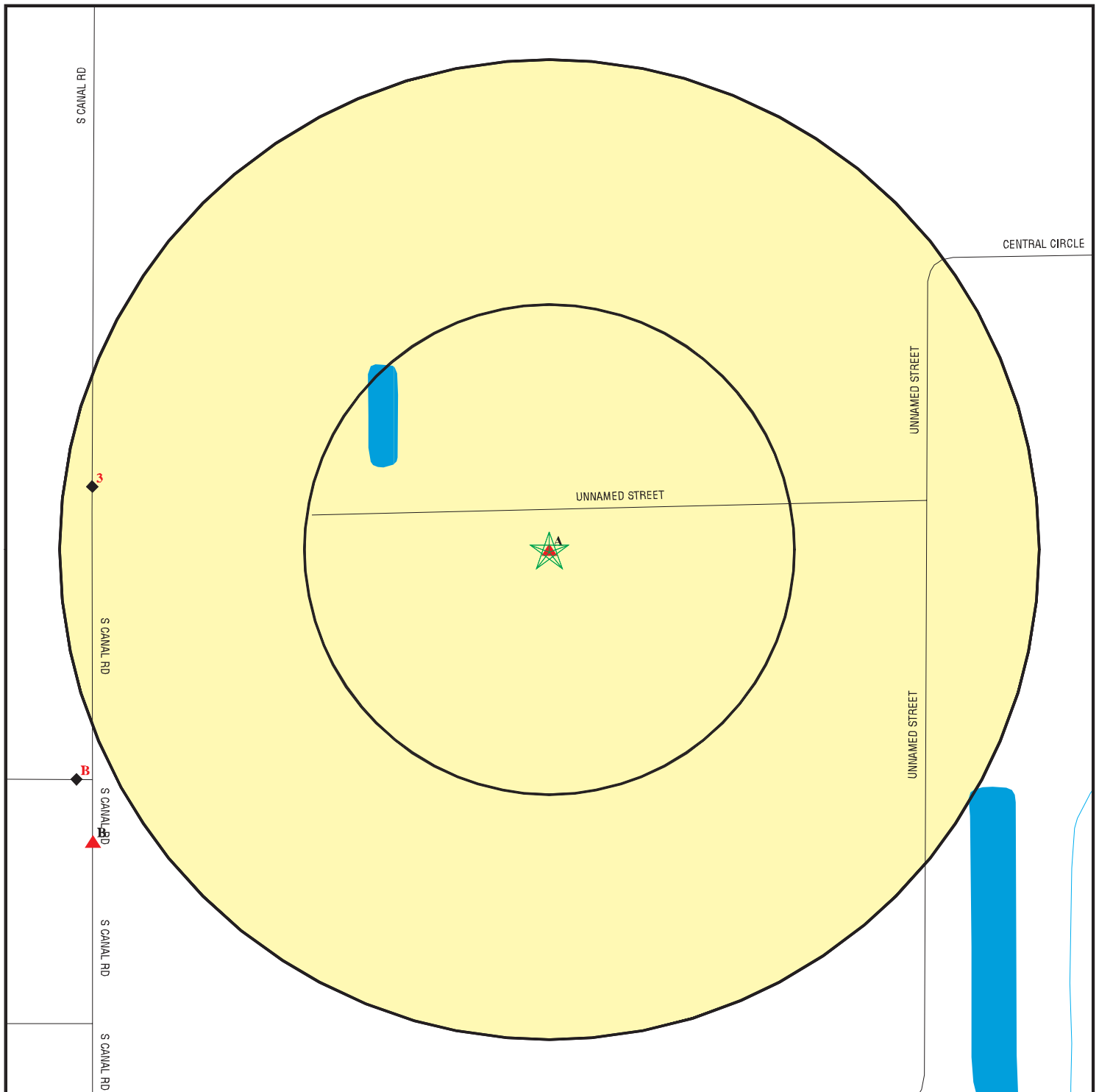
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Oil & Gas pipelines

TARGET PROPERTY: GM Lansing Plant #5-Former Delta Eng
 ADDRESS: 2901 South Canal Road
 CITY/STATE/ZIP: Lansing MI 48917
 LAT/LONG: 42.7056 / 84.6575

CUSTOMER: EEC
 CONTACT: Eric Kemmer
 INQUIRY #: 1250829.2s
 DATE: August 16, 2004 6:11 pm

DETAIL MAP - 1250829.2s - EEC



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Coal Gasification Sites
- ⚙ Sensitive Receptors
- ⚙ National Priority List Sites
- ⚙ Landfill Sites
- ⚙ Dept. Defense Sites

- Indian Reservations BIA
- Oil & Gas pipelines

0 1/16 1/8 1/4 Miles



TARGET PROPERTY: GM Lansing Plant #5-Former Delta Eng
 ADDRESS: 2901 South Canal Road
 CITY/STATE/ZIP: Lansing MI 48917
 LAT/LONG: 42.7056 / 84.6575

CUSTOMER: EEC
 CONTACT: Eric Kemmer
 INQUIRY #: 1250829.2s
 DATE: August 16, 2004 6:11 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
<u>FEDERAL ASTM STANDARD</u>								
NPL		1.500	0	0	0	0	0	0
Proposed NPL		1.500	0	0	0	0	0	0
CERCLIS		1.000	0	0	0	0	NR	0
CERC-NFRAP	X	0.750	0	0	0	0	NR	0
CORRACTS	X	1.500	0	0	0	0	0	0
RCRIS-TSD	X	1.000	0	0	0	0	NR	0
RCRIS Lg. Quan. Gen.		0.750	0	0	0	0	NR	0
RCRIS Sm. Quan. Gen.	X	0.750	0	0	2	5	NR	7
ERNS		0.500	0	0	1	NR	NR	1
<u>STATE ASTM STANDARD</u>								
State Haz. Waste		1.500	0	0	0	0	1	1
State Landfill		1.000	0	0	0	0	NR	0
LUST	X	1.000	0	1	1	9	NR	11
UST	X	0.750	0	1	1	5	NR	7
BEA		1.000	0	0	0	2	NR	2
HIST LF		1.000	0	0	0	0	NR	0
INDIAN UST		0.750	0	0	0	0	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		1.500	0	0	0	0	0	0
ROD		1.500	0	0	0	0	0	0
Delisted NPL		1.500	0	0	0	0	0	0
FINDS	X	0.500	0	0	2	NR	NR	2
HMIRS		0.500	0	0	0	NR	NR	0
MLTS		0.500	0	0	0	NR	NR	0
MINES		0.750	0	0	0	0	NR	0
NPL Liens		0.500	0	0	0	NR	NR	0
PADS		0.500	0	0	0	NR	NR	0
UMTRA		1.000	0	0	0	0	NR	0
FUDS		1.500	0	0	0	0	0	0
INDIAN RESERV		1.500	0	0	0	0	0	0
US BROWNFIELDS		1.000	0	0	0	0	NR	0
DOD		1.500	0	0	0	0	0	0
RAATS		0.500	0	0	0	NR	NR	0
TRIS	X	0.500	0	0	0	NR	NR	0
TSCA		0.500	0	0	0	NR	NR	0
SSTS		0.500	0	0	0	NR	NR	0
FTTS		0.500	0	0	0	NR	NR	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
AST		0.500	0	0	0	NR	NR	0
DEL SHWS		1.500	0	0	0	0	0	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
PEAS		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.750	0	0	0	0	NR	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>								
Coal Gas		1.500	0	0	0	0	0	0
<u>BROWNFIELDS DATABASES</u>								
US BROWNFIELDS		1.000	0	0	0	0	NR	0

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1 **LANSING POWEERTRAIN DELTA ENGINE**
Target **2901 S CANAL RD**
Property **LANSING, MI 48921**

LUST **U003330605**
UST **N/A**

Site 1 of 2 in cluster A

Actual:
872 ft.

LUST:

Facility ID: 00013824
Release Number: Closed
Release Date: Oct 15 2001
District: Lansing District Office
Closed Date: Nov 19 2001
Owner Contact : Not reported
Owner Name : Gm Corp
Owner Address : MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Country : USA
Owner Phone : 517-885-1155
Contact : KIURT BLIZZARD
Facility Phone : 517-885-1155
Leak Number: C-1308-01

Facility ID: 00013824
Release Number: Closed
Release Date: Oct 2 1990
District: Lansing District Office
Closed Date: Jan 13 1995
Owner Contact : Not reported
Owner Name : Gm Corp
Owner Address : MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Country : USA
Owner Phone : 517-885-1155
Contact : KIURT BLIZZARD
Facility Phone : 517-885-1155
Leak Number: C-1954-90

UST:

Facility ID: 00013824
Tank ID: 1
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: SPARE-NEVER USED
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 2
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: SPARE-NEVER USED
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device:No
Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 3
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: SPARE-NEVER USED
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device:No
Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 4
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

LANSING, MI 48921
Owner Phone: 517-885-1155
Product: HYDRAULIC OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: May 6 1981
Release Detection:
 Tank: Not reported
 Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 5
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
 LANSING, MI 48921
Owner Phone: 517-885-1155
Product: WAY LUBE OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: May 6 1981
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00013824
Tank ID: 6
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
 LANSING, MI 48921
Owner Phone: 517-885-1155
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

Impressed Device: No

Install Date: May 6 1981

Release Detection:

Tank: Not reported

Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824

Tank ID: 7

Owner: Gm Corp

Owner Country: USA

Owner Contact: Not reported

Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921

Owner Phone: 517-885-1155

Product: MOTOR OIL

Capacity: 20000

Tank Status: Removed from Ground

Remove Date: Sep 29 1993

Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel

Piping Material: Bare Steel

Piping Type: Not reported

Contact: KIURT BLIZZARD

Contact Phone: 517-885-1155

Impressed Device: No

Install Date: May 6 1981

Release Detection:

Tank: Not reported

Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824

Tank ID: 8

Owner: Gm Corp

Owner Country: USA

Owner Contact: Not reported

Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921

Owner Phone: 517-885-1155

Product: MOTOR OIL

Capacity: 20000

Tank Status: Removed from Ground

Remove Date: Sep 29 1993

Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel

Piping Material: Bare Steel

Piping Type: Not reported

Contact: KIURT BLIZZARD

Contact Phone: 517-885-1155

Impressed Device: No

Install Date: May 6 1981

Release Detection:

Tank: Not reported

Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824

Tank ID: 9

Owner: Gm Corp

Owner Country: USA

Owner Contact: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: SPARE-NEVER USED
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device:No
Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 10
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: Gasoline
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device:No
Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 11
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: HONE COOLANT OIL
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

Contact Phone: 517-885-1155
Impressed Device: No
Install Date: May 6 1981
Release Detection:
 Tank: Not reported
 Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 12
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
 LANSING, MI 48921

Owner Phone: 517-885-1155
Product: Gasoline
Capacity: 5000
Tank Status: Removed from Ground
Remove Date: Nov 16 2001
Constr Material: Cathodically Protected Steel, Double Walled
Piping Material: Bare Steel, Double Walled
Piping Type: Gravity Fed?, Pressure, Suction: No Valve At Tank, Suction: Valve at Tank
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: May 6 1986
Release Detection:
 Tank: Inter Monitoring Double Walled Tank
 Pipe: Interstitial Monitoring Double Walled Piping

Facility ID: 00013824
Tank ID: 13
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
 LANSING, MI 48921

Owner Phone: 517-885-1155
Product: Hazardous Substance
Capacity: 5000
Tank Status: Removed from Ground
Remove Date: Oct 31 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Pressure
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: Jan 1 1981
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00013824
Tank ID: SA-01
Owner: Gm Corp
Owner Country: USA

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

LANSING POWERTRAIN DELTA ENGINE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003330605

Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: Not reported
Capacity: Not reported
Tank Status: NON-Registered Tank
Remove Date: Not reported
Constr Material: Not reported
Piping Material: Not reported
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: Not reported
Release Detection:
Tank: Not reported
Pipe: Not reported

A2
Target
Property

GMC-BOC LANSING AUTO DIV PH5
2901 SOUTH CANAL ROAD
EATON, MI 48917

RCRIS-SQG 1000126753
FINDS 48921BCPWR29
TRIS
RCRIS-TSD
CORRACTS
CERC-NFRAP

Actual:
872 ft.

Site 2 of 2 in cluster A

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
Non NPL Code: DR
Ownership Status: Unknown

Federal Facility: Not a Federal Facility

NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
Assessment: PRELIMINARY ASSESSMENT
Assessment: ARCHIVE SITE

Completed: 02/10/1992
Completed: 05/22/1992
Completed: 12/18/1995

CORRACTS Data:

EPA Id: MID980700843
Region: 5
Area Name: ENTIRE FACILITY
Actual Date: 10/15/1985
Corrective Action: CA050 - RFA Completed
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

EPA Id: MID980700843
Region: 5
Area Name: ENTIRE FACILITY
Actual Date: 10/15/1985
Corrective Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

EPA Id: MID980700843
Region: 5
Area Name: ENTIRE FACILITY
Actual Date: 06/11/1992
Corrective Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GMC-BOC LANSING AUTO DIV PH5 (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000126753

EPA Id: MID980700843
Region: 5
Area Name: ENTIRE FACILITY
Actual Date: 06/11/1992
Corrective Action: CA225IN - Stabilization Measures Evaluation, This facility is not , amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available

2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

RCRIS Corrective Action Summary:

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 06/11/1992
Event: Stabilization Measures Evaluation, This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.
Event Date: 06/11/1992
Event: RFA Completed
Event Date: 10/15/1985
Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 10/15/1985

RCRIS:

Owner: GENERAL MOTORS CORPORATION
EPA ID: MID980700843
Contact: KURT BLIZZARD
(517) 885-1155

Classification: TSDF, Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 04/19/2001
Actual Date Achieved Compliance: 10/15/2001
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/25/2001
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: GENERATOR-OTHER REQUIREMENTS
Date Violation Determined: 04/30/1996
Actual Date Achieved Compliance: 12/05/1996
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/30/1996
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 04/30/1996

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GMC-BOC LANSING AUTO DIV PH5 (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000126753

Actual Date Achieved Compliance: 12/05/1996
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/30/1996
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/26/1988
Actual Date Achieved Compliance: 12/08/1988
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1988
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/26/1988
Actual Date Achieved Compliance: 12/08/1988
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1988
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/21/1988
Actual Date Achieved Compliance: 12/08/1988
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1988
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 06/07/1988
Actual Date Achieved Compliance: 12/08/1988
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/14/1988
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TRANSPORTER-OTHER REQUIREMENTS
Date Violation Determined: 06/19/1985
Actual Date Achieved Compliance: 07/18/1985
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/18/1985
Penalty Type: Not reported

There are 8 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20011015
Other Evaluation	GENERATOR-OTHER REQUIREMENTS	19961205
	GENERATOR-LAND BAN REQUIREMENTS	19961205
Compliance Evaluation Inspection	GENERATOR-OTHER REQUIREMENTS	19961205
	GENERATOR-LAND BAN REQUIREMENTS	19961205
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19881208
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19881208
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19881208
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19881208

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GMC-BOC LANSING AUTO DIV PH5 (Continued)

EDR ID Number
EPA ID Number

Database(s)

Compliance Evaluation Inspection

TRANSPORTER-OTHER REQUIREMENTS

19850718

1000126753

FINDS:

Other Pertinent Environmental Activity Identified at Site:

National Toxics Inventory

Resource Conservation and Recovery Act Information system

Toxics Release Inventory

3
West
1/8-1/4
1243 ft.

LANSING LAWN SNOW
2530 S CANAL RD
LANSING, MI 48917

LUST **U003081244**
UST **N/A**

Relative:
Lower

LUST:

Facility ID: 00002965
Release Number: Closed
Release Date: Dec 26 2001
District: Lansing District Office
Closed Date: Jun 12 2002
Owner Contact : Not reported
Owner Name : Lansing Lawn Snow
Owner Address : 2530 S Canal Rd
Lansing, MI 48917
Country : USA
Owner Phone : (517) 322-2200
Contact : ROBERT D SEPETER
Facility Phone : (517) 322-2200
Leak Number: C-0312-02

UST:

Facility ID: 00002965
Tank ID: 1
Owner: Lansing Lawn Snow
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2530 S Canal Rd
Lansing, MI 48917
Owner Phone: (517) 322-2200
Product: Gasoline
Capacity: 1000
Tank Status: Removed from Ground
Remove Date: Apr 1 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT D SEPETER
Contact Phone: (517) 322-2200
Impressed Device: No
Install Date: May 6 1979
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00002965
Tank ID: 2
Owner: Lansing Lawn Snow
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2530 S Canal Rd

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

LANSING LAWN SNOW (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003081244

Lansing, MI 48917
Owner Phone: (517) 322-2200
Product: Diesel
Capacity: 1000
Tank Status: Removed from Ground
Remove Date: Apr 1 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT D SEPETER
Contact Phone: (517) 322-2200
Impressed Device: No
Install Date: May 6 1979
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00002965
Tank ID: 3
Owner: Lansing Lawn Snow
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2530 S Canal Rd
Lansing, MI 48917
Owner Phone: (517) 322-2200
Product: Gasoline
Capacity: 500
Tank Status: Removed from Ground
Remove Date: Apr 1 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT D SEPETER
Contact Phone: (517) 322-2200
Impressed Device: No
Install Date: May 5 1980
Release Detection:
Tank: Not reported
Pipe: Not reported

B4
WSW
1/4-1/2
1416 ft.

CIS
7707 RICKLE
LANSING, MI 48917

Site 1 of 4 in cluster B

Relative:
Lower

Actual:
870 ft.

RCRIS-SQG 1007100793
MIK881828222

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CIS (Continued)

EDR ID Number
EPA ID Number

Database(s)

1007100793

RCRIS:

Owner: L D CLARK INC
EPA ID: MIK881828222

Contact: HENRY RYAN
(517) 241-0582

Classification: Conditionally Exempt Small Quantity Generator
TSD Activities: Not reported

Violation Status: No violations found

B5
WSW
1/4-1/2
1416 ft.

CIS
7707 RICKLE
LANSING, MI 48917

FINDS 1007141385
110015897573

Site 2 of 4 in cluster B

Relative:
Lower

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

Actual:
870 ft.

B6
WSW
1/4-1/2
1460 ft.

CENTRAL DAIRY SUPPLY, INC
2810 S CANAL RD
LANSING, MI 48917

UST U003867091
N/A

Site 3 of 4 in cluster B

Relative:
Equal

UST:

Facility ID: 00011970
Tank ID: 1
Owner: Central Dairy Supply, Inc
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2810 S Canal Rd
Lansing, MI 48917
Owner Phone: (517) 322-2083
Product: Gasoline
Capacity: 1000
Tank Status: Removed from Ground
Remove Date: Sep 10 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: ROY CALDWELL
Contact Phone: (517) 322-2083
Impressed Device: No
Install Date: May 6 1976
Release Detection:
Tank: Not reported
Pipe: Not reported

Actual:
872 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B7
WSW
1/4-1/2
1460 ft.

CENTRAL DAIRY SUPPLY, INC
2810 S CANAL RD
LANSING, MI 48917

LUST **S105213515**
N/A

Site 4 of 4 in cluster B

Relative:
Equal

LUST:

Actual:
872 ft.

Facility ID: 00011970
Release Number: Closed
Release Date: Jun 14 1990
District: Lansing District Office
Closed Date: Jun 8 2000
Owner Contact : Not reported
Owner Name : Central Dairy Supply, Inc
Owner Address : 2810 S Canal Rd
Lansing, MI 48917
Country : USA
Owner Phone : (517) 322-2083
Contact : ROY CALDWELL
Facility Phone : (517) 322-2083
Leak Number: C-1067-90

8
WSW
1/4-1/2
2318 ft.

FLEET IMAGE OF LANSING INC
7721 LANAC ST
LANSING, MI 48917

RCRIS-SQG **1000223490**
FINDS **MID981953938**

Relative:
Higher

RCRIS:

Actual:
878 ft.

Owner: BRANDT PROPERTIES
EPA ID: MID981953938
Contact: BRIAN BRANDT
(517) 332-0063

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 02/22/2001
Actual Date Achieved Compliance: 06/28/2001

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/2001
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 02/22/2001
Actual Date Achieved Compliance: 06/28/2001

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/2001
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-CONTAINER
Date Violation Determined: 02/22/2001
Actual Date Achieved Compliance: 06/28/2001

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/2001
Penalty Type: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FLEET IMAGE OF LANSING INC (Continued)

1000223490

There are 3 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20010628
	GENERATOR-GENERAL REQUIREMENTS	20010628
	GENERATOR-CONTAINER	20010628

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

9
SSW
1/4-1/2
2580 ft.

LANSING, MI 48921

ERNS 95312477
N/A

Relative:
Lower

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

Actual:
870 ft.

10
SSW
1/2-1
2829 ft.

SHREVE STEEL
3333 S CANAL RD
LANSING, MI 48917

LUST U003868147
UST N/A

Relative:
Higher

LUST:

Facility ID: 00038796
Release Number: Closed
Release Date: Nov 13 1995
District: Lansing District Office
Closed Date: Jul 15 2003
Owner Contact : Not reported
Owner Name : Shreve Steel
Owner Address : 7300 Millett Hwy
Lansing, MI 48917
Country : USA
Owner Phone : (517) 243-6519
Contact : Not reported
Facility Phone : Not reported
Leak Number: C-1202-95

UST:

Facility ID: 00038796
Tank ID: 1
Owner: Shreve Steel
Owner Country: USA
Owner Contact: Not reported
Owner Address: 7300 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 243-6519
Product: Diesel
Capacity: 6000
Tank Status: Removed from Ground
Remove Date: Nov 16 1995
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SHREVE STEEL (Continued)

EDR ID Number
EPA ID Number

U003868147

Piping Type: Not reported
Contact: Not reported
Contact Phone: Not reported
Impressed Device: No
Install Date: Not reported
Release Detection:
Tank: Not reported
Pipe: Not reported

C11
WSW
1/2-1
2867 ft.

USA TODAY - LANSING FACILITY
2960 ENA DRIVE
LANSING, MI 48917

RCRIS-SQG **1007099160**
MIK631811833

Site 1 of 2 in cluster C

Relative:
Higher

RCRIS:
Owner: GANNETT COMPANY INC
EPA ID: MIK631811833
Contact: KEN SWANSON
(517) 322-2710

Actual:
878 ft.

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

C12
WSW
1/2-1
2867 ft.

LANSING STATE JOURNAL DELTA FACILITY SIT
2960 ENA ST
LANSING, MI 48917

RCRIS-SQG **1000367044**
FINDS **MID980684476**

Site 2 of 2 in cluster C

Relative:
Higher

RCRIS:
Owner: GANNETT COMPANY INC (PARENT COMPANY)
EPA ID: MID980684476
Contact: KEN SWANSON
(517) 322-2710

Actual:
878 ft.

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

D13
South
1/2-1
2956 ft.

ECONO TRAVEL LLC
7300 MILLETT HWY
LANSING, MI 48917

RCRIS-SQG **1007098398**
MIK514121649

Site 1 of 4 in cluster D

Relative:
Higher

Actual:
877 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

ECONO TRAVEL LLC (Continued)

EDR ID Number
EPA ID Number

1007098398

RCRIS:

Owner: ECONO TRAVEL LLC
EPA ID: MIK514121649

Contact: MILTON EMBS
(517) 322-3400

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

D14
South
1/2-1
2956 ft.

7300 MILLETT HIGHWAY
7300 MILLETT HIGHWAY
LANSING, MI 48917

BEA S105094953
N/A

Site 2 of 4 in cluster D

Relative:
Higher

BEA:

Actual:
877 ft.

Petition Disclosure: 0
BEA Number: 564
District: Lansing
Date Received: 09/07/2001
Submitter Name: Mr. Milton Embs
Petition Determination: No Request
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: leinbaca
Division Assigned: Storage Tank Division
Secondary Address: Not reported

D15
South
1/2-1
2956 ft.

SHREVE STEEL
7300 MILLETT HWY
LANSING, MI 48917

UST U003867806
N/A

Site 3 of 4 in cluster D

Relative:
Higher

UST:

Actual:
877 ft.

Facility ID: 00021063
Tank ID: 1
Owner: Shreve Steel
Owner Country: USA
Owner Contact: Not reported
Owner Address: 7300 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 243-6519
Product: Gasoline
Capacity: 5000
Tank Status: Removed from Ground
Remove Date: Nov 16 1995
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: Not reported
Contact Phone: () -
Impressed Device: No
Install Date: Oct 15 1966
Release Detection:

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SHREVE STEEL (Continued)

EDR ID Number
EPA ID Number

U003867806

Tank: Not reported
Pipe: Not reported

D16
South
1/2-1
2956 ft.

SHREVE STEEL
7300 MILLETT HWY
LANSING, MI 48917

LUST S105220374
N/A

Site 4 of 4 in cluster D

Relative:
Higher

LUST:

Actual:
877 ft.

Facility ID: 00021063
Release Number: Closed
Release Date: May 7 1990
District: Lansing District Office
Closed Date: Oct 10 1990
Owner Contact : Not reported
Owner Name : Shreve Steel
Owner Address : 7300 Millett Hwy
Lansing, MI 48917
Country : USA
Owner Phone : (517) 243-6519
Contact : Not reported
Facility Phone : () -
Leak Number: C-1373-85

Facility ID: 00021063
Release Number: Open
Release Date: Jun 11 2001
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Shreve Steel
Owner Address : 7300 Millett Hwy
Lansing, MI 48917
Country : USA
Owner Phone : (517) 243-6519
Contact : Not reported
Facility Phone : () -
Leak Number: C-0383-01

17
SSE
1/2-1
3085 ft.

MILLETT HIGHWAY ASH STORAGE
7101 MILLETT HWY
LANSING, MI 48917

UST U003102195
N/A

Relative:
Lower

UST:

Actual:
870 ft.

Facility ID: 00002628
Tank ID: 1
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: Po Box 13007
Lansing, MI 48917
Owner Phone: 517-702-6000
Product: Diesel
Capacity: 12000
Tank Status: Temporarily out of Use
Remove Date: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MILLETT HIGHWAY ASH STORAGE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003102195

Constr Material: Cathodically Protected Steel, Epoxy Coated Steel
Piping Material: Cathodically Protected
Piping Type: Suction: No Valve At Tank
Contact: Robert Roller
Contact Phone: 517-332-0910
Impressed Device: Yes
Install Date: May 8 1985
Release Detection:
Tank: Automatic Tank Gauging, Groundwater Monitoring, Inventory Control, Manual Tank Gauging
Pipe: Automatic Line Leak Detectors

**18
ESE
1/2-1
3531 ft.**

**NATIONWIDE TRUCK BROKERS - LANSING
6601 SLOAN HWY
LANSING, MI 48917**

**RCRIS-SQG 1004725334
FINDS MIR000040931**

**Relative:
Lower**

RCRIS:
Owner: NATIONWIDE TRUCK BROKERS
EPA ID: MIR000040931

**Actual:
870 ft.**

Contact: RENEE HOEKSTRA
(616) 455-4444

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

**19
SE
1/2-1
3547 ft.**

**CLARK FOUNDATION
6851 MILLETT HWY
LANSING, MI 48917**

**LUST UST U000252653
N/A**

**Relative:
Lower**

LUST:
Facility ID: 00004235
Release Number: Open
Release Date: Jan 5 1999
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Clark Foundation
Owner Address : 6851 Millett Hwy
Lansing, MI 48917
Country : USA
Owner Phone : (517) 322-0370
Contact : VERN VAN BUREN
Facility Phone : (517) 322-0370
Leak Number: C-0013-99

**Actual:
868 ft.**

UST:

Facility ID: 00004235
Tank ID: 1
Owner: Clark Foundation
Owner Country: USA
Owner Contact: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CLARK FOUNDATION (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000252653

Owner Address: 6851 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 322-0370
Product: Gasoline
Capacity: 4000
Tank Status: Removed from Ground
Remove Date: Jan 1 1999
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: VERN VAN BUREN
Contact Phone: (517) 322-0370
Impressed Device: No
Install Date: Jan 1 1975
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004235
Tank ID: 2
Owner: Clark Foundation
Owner Country: USA
Owner Contact: Not reported
Owner Address: 6851 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 322-0370
Product: Gasoline
Capacity: 4000
Tank Status: Removed from Ground
Remove Date: Jan 1 1999
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: VERN VAN BUREN
Contact Phone: (517) 322-0370
Impressed Device: No
Install Date: Jan 1 1975
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004235
Tank ID: 3
Owner: Clark Foundation
Owner Country: USA
Owner Contact: Not reported
Owner Address: 6851 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 322-0370
Product: Diesel
Capacity: 2000
Tank Status: Removed from Ground
Remove Date: Jan 1 1999
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: VERN VAN BUREN

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CLARK FOUNDATION (Continued)

EDR ID Number
EPA ID Number

U000252653

Contact Phone: (517) 322-0370
Impressed Device: No
Install Date: Jan 1 1975
Release Detection:
Tank: Not reported
Pipe: Not reported

**20
ESE
1/2-1
3810 ft.**

**KENNEDY MASONRY (E)
6554 SLOAN
LANSING, MI 48917**

RCRIS-SQG

**1007097202
MIK322389479**

**Relative:
Lower**

RCRIS:
Contact: JIM KENNEDY
(517) 322-9310

**Actual:
870 ft.**

Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

**21
SE
1/2-1
3895 ft.**

**CONSOLIDATED FREIGHTWAYS
6726 MILLETT HWY
LANSING, MI 48917**

**LUST
UST**

**U003080613
N/A**

**Relative:
Higher**

LUST:
Facility ID: 00000028
Release Number: Open
Release Date: Mar 12 1996
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Consolidated Freightways
Owner Address : PO Box 3010
Menlo Park, CA 94026
Country : USA
Owner Phone : (650) 326-1700
Contact : JOHN KAMINSKI
Facility Phone : (517) 322-0606
Leak Number: C-0141-96

**Actual:
873 ft.**

UST:
Facility ID: 00000028
Tank ID: 1
Owner: Consolidated Freightways
Owner Country: USA
Owner Contact: Not reported
Owner Address: PO Box 3010
Menlo Park, CA 94026
Owner Phone: (650) 326-1700
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Oct 14 1997
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Pressure
Contact: JOHN KAMINSKI

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSOLIDATED FREIGHTWAYS (Continued)

U003080613

Contact Phone: (517) 322-0606
Impressed Device: No
Install Date: Feb 26 1966
Release Detection:
Tank: Not reported
Pipe: Not reported

E22
East
1/2-1
4119 ft.

MEIJER DC-93
2901 CREYTS RD
LANSING, MI 49544

LUST **U003082475**
UST **N/A**

Site 1 of 2 in cluster E

Relative:
Lower

LUST:

Actual:
870 ft.

Facility ID: 00017059
Release Number: Closed
Release Date: May 5 1994
District: Lansing District Office
Closed Date: Jan 13 1995
Owner Contact : Lyle Livasy
Owner Name : Meijer
Owner Address : 2929 Walker Ave Nw
Grand Rapids, MI 49544
Country : USA
Owner Phone : (616) 453-6711
Contact : JOHN WAKEMAN
Facility Phone : (517) 322-7074
Leak Number: C-0479-94

UST:

Facility ID: 00017059
Tank ID: 1
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: #2 FUEL OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: May 1 1994
Constr Material: Asphalt Coated or Bare Steel, Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074
Impressed Device: No
Install Date: Apr 16 1978
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00017059
Tank ID: 2
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MEIJER DC-93 (Continued)

U003082475

Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: #2 FUEL OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: May 1 1994
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074
Impressed Device: No
Install Date: Apr 16 1978
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00017059
Tank ID: 3
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: #2 FUEL OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: May 1 1994
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074
Impressed Device: No
Install Date: Apr 16 1978
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00017059
Tank ID: 4
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: #2 FUEL OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: May 1 1994
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC-93 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082475

Impressed Device: No
Install Date: Apr 16 1978
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00017059
Tank ID: 5
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: FLOOR WASH DOWN
Capacity: 15000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Fiberglass Reinforced plastic
Piping Material: Fiberglass reinforced plastic
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074
Impressed Device: No
Install Date: Apr 16 1986
Release Detection:
Tank: Not reported
Pipe: Not reported

E23 2930 S. CREYTS ROAD
East 2930 S. CREYTS ROAD
1/2-1 DELTA TOWNSHIP, MI
4126 ft.

BEA S105094922
N/A

Relative:
Lower

Site 2 of 2 in cluster E

Actual:
870 ft.

BEA:
Petition Disclosure: 1
BEA Number: 409
District: Lansing
Date Received: 12/16/1999
Submitter Name: Doty Development #3
Petition Determination: Affirmed
Category: No Hazardous Substance(s)
Determination 20107A: Pending
Reviewer: temp ppm
Division Assigned: Environmental Response Division
Secondary Address: Not reported

F24 COCA-COLA BOTTLING CO OF MI
ESE 3300 S CREYTS RD
1/2-1 LANSING, MI 48917
4872 ft.

LUST U003082582
UST N/A

Relative:
Lower

Site 1 of 3 in cluster F

Actual:
870 ft.

LUST:
Facility ID: 00018777
Release Number: Closed
Release Date: Sep 1 1987

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

COCA-COLA BOTTLING CO OF MI (Continued)

U003082582

District: Lansing District Office
Closed Date: Sep 21 1981
Owner Contact : Not reported
Owner Name : Coca-Cola Ent
Owner Address : 9770 Patuxent Woods Dr
 Columbia, MD 21046
Country : USA
Owner Phone : (410) 290-3033
Contact : FORREST LEASURE
Facility Phone : (517) 322-2600
Leak Number: C-0165-85

Facility ID: 00018777
Release Number: Open
Release Date: Jan 31 1990
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Coca-Cola Ent
Owner Address : 9770 Patuxent Woods Dr
 Columbia, MD 21046
Country : USA
Owner Phone : (410) 290-3033
Contact : FORREST LEASURE
Facility Phone : (517) 322-2600
Leak Number: C-0205-90

UST:

Facility ID: 00018777
Tank ID: 1
Owner: Coca-Cola Ent
Owner Country: USA
Owner Contact: Not reported
Owner Address: 9770 Patuxent Woods Dr
 Columbia, MD 21046
Owner Phone: (410) 290-3033
Product: Diesel
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Jun 17 1991
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: FORREST LEASURE
Contact Phone: (517) 322-2600
Impressed Device: No
Install Date: Apr 22 1979
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00018777
Tank ID: 2
Owner: Coca-Cola Ent
Owner Country: USA
Owner Contact: Not reported
Owner Address: 9770 Patuxent Woods Dr
 Columbia, MD 21046

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

COCA-COLA BOTTLING CO OF MI (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082582

Owner Phone: (410) 290-3033
Product: Diesel
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Jun 17 1991
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: FORREST LEASURE
Contact Phone: (517) 322-2600
Impressed Device: No
Install Date: Apr 22 1979
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00018777
Tank ID: 3
Owner: Coca-Cola Ent
Owner Country: USA
Owner Contact: Not reported
Owner Address: 9770 Patuxent Woods Dr
Columbia, MD 21046
Owner Phone: (410) 290-3033
Product: Gasoline
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Jun 17 1991
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: FORREST LEASURE
Contact Phone: (517) 322-2600
Impressed Device: No
Install Date: Apr 22 1979
Release Detection:
Tank: Not reported
Pipe: Not reported

F25
ESE
1/2-1
4872 ft.

MEIJER DC 86
3301 S CREYTS RD
LANSING, MI 48917

LUST U003082168
UST N/A

Site 2 of 3 in cluster F

Relative:
Lower

LUST:

Actual:
870 ft.

Facility ID: 00011554
Release Number: Closed
Release Date: Apr 26 1990
District: Lansing District Office
Closed Date: Nov 16 1994
Owner Contact: Not reported
Owner Name: Meijer Distribution Inc
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Country: USA
Owner Phone: (616) 453-6711
Contact: LYLE LIVASY
Facility Phone: (616) 361-4136

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Leak Number: C-0753-90

Facility ID: 00011554
Release Number: Open
Release Date: Sep 29 1989
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Meijer Distribution Inc
Owner Address : 2929 Walker Ave NW
Grand Rapids, MI 49544
Country : USA
Owner Phone : (616) 453-6711
Contact : LYLE LIVASY
Facility Phone : (616) 361-4136
Leak Number: C-0611-89

Facility ID: 00011554
Release Number: Open
Release Date: Mar 4 1991
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Meijer Distribution Inc
Owner Address : 2929 Walker Ave NW
Grand Rapids, MI 49544
Country : USA
Owner Phone : (616) 453-6711
Contact : LYLE LIVASY
Facility Phone : (616) 361-4136
Leak Number: C-0320-91

UST:

Facility ID: 00011554
Tank ID: 1
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Gasoline
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported
Facility ID: 00011554
Tank ID: 2

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 3
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 4
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MEIJER DC 86 (Continued)

U003082168

Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554
Tank ID: 5
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
 Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554
Tank ID: 6
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
 Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Tank ID: 7
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 8
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 9
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MEIJER DC 86 (Continued)

U003082168

Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554
Tank ID: 10
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
 Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554
Tank ID: 11
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
 Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MEIJER DC 86 (Continued)

U003082168

Facility ID: 00011554
Tank ID: 12
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 13
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 14
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No

Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 15
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544

Owner Phone: (616) 453-6711
Product: Gasoline, Diesel
Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel, Double Walled
Piping Material: Double Walled, Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No

Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inventory Control
Pipe: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled Piping

Facility ID: 00011554
Tank ID: 16
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544

Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel, Double Walled
Piping Material: Double Walled, Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No

Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inventory Control

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Pipe: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping

Facility ID: 00011554
Tank ID: 17
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel,Double Walled
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device:No
Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inventory Control
Pipe: Interstitial Monitoring Double Walled Piping,Line Tightness Testing

Facility ID: 00011554
Tank ID: 18
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel,Double Walled
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device:No
Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inventory Control
Pipe: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping

Facility ID: 00011554
Tank ID: 19
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

U003082168

Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel,Double Walled
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device:No
Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inventory Control
Pipe: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping

F26
ESE
1/2-1
4880 ft.

MEIJER DC-512
3307 S CREYTS RD
LANSING, MI 49544

LUST U002301053
UST N/A

Site 3 of 3 in cluster F

Relative:
Lower

LUST:

Actual:
870 ft.

Facility ID: 00017056
Release Number: Closed
Release Date: Jun 7 1994
District: Lansing District Office
Closed Date: Nov 16 1994
Owner Contact : Lyle Livasy
Owner Name : Meijer
Owner Address : 2929 Walker Ave Nw
Grand Rapids, MI 49544
Country : USA
Owner Phone : (616) 453-6711
Contact : MR LYLE LIVASY
Facility Phone : (616) 453-6711
Leak Number: C-0566-94

UST:

Facility ID: 00017056
Tank ID: 1
Owner: Meijer
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: ANTI FREEZE
Capacity: 1500
Tank Status: Removed from Ground
Remove Date: Jun 6 1994
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: MR LYLE LIVASY
Contact Phone: (616) 453-6711
Impressed Device:No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC-512 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301053

Facility ID: 00017056
Tank ID: 2
Owner: Meijer
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: LUBE OIL
Capacity: 8000
Tank Status: Removed from Ground
Remove Date: Jun 6 1994
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: MR LYLE LIVASY
Contact Phone: (616) 453-6711
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00017056
Tank ID: 3
Owner: Meijer
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Used Oil
Capacity: 1500
Tank Status: Removed from Ground
Remove Date: Jun 6 1994
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: MR LYLE LIVASY
Contact Phone: (616) 453-6711
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

27
SE
1/2-1
5115 ft.

Relative:
Lower

Actual:
870 ft.

GENERAL CAR AND TRUCK LEASING SYSTEM INC
3520 S CREYTS
LANSING, MI 48917

RCRIS-SQG 1000828706
FINDS MID985657782
LUST

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GENERAL CAR AND TRUCK LEASING SYSTEM INC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000828706

RCRIS:

Owner: GENERAL CAR AND TRUCK LEASING SYSTEM INC
EPA ID: MID985657782

Contact: JOHN KEILEN
(517) 322-9900

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

LUST:

Facility ID: 00008495
Release Number: Open
Release Date: Jan 25 1993
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : OWNER ADDRESS UNKNOWN
Owner Address : Not Recorded
UNKNOWN, MI 00000

Country : USA
Owner Phone : () -
Contact : ROYAL L GRIFFES
Facility Phone : (517) 322-9900
Leak Number: C-0141-93

Facility ID: 00008495
Release Number: Open
Release Date: May 10 1991
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : OWNER ADDRESS UNKNOWN
Owner Address : Not Recorded
UNKNOWN, MI 00000

Country : USA
Owner Phone : () -
Contact : ROYAL L GRIFFES
Facility Phone : (517) 322-9900
Leak Number: C-0895-91

**28
SE
> 1
6720 ft.**

**REITH-RILEY
4150 CREYTS ROAD
LANSING, MI 48917**

**SHWS S104910668
BEA N/A**

**Relative:
Higher**

SHWS:

Facility ID: 23000180
Facility Status: Inactive - no actions taken to address contamination
Source: Automotive Repair Shops
Pollutant(s): Phenanthrene; TCE; VC
SAM Score: 36
SAM Score Date: 02/10/2004
Township: 4N

**Actual:
879 ft.**

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REITH-RILEY (Continued)

S104910668

Range: 3W
Section: 34
Quarter: NW
Quarter/Quarter: SE

BEA:

Petition Disclosure: 0
BEA Number: 246
District: Lansing
Date Received: 05/08/1998
Submitter Name: Ellison & Fish, LLC
Petition Determination: No Request
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Environmental Response Division
Secondary Address: Not reported

Petition Disclosure: 0
BEA Number: 247
District: Lansing
Date Received: 05/08/1998
Submitter Name: Advanced Paving Co.
Petition Determination: No Request
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Environmental Response Division
Secondary Address: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DELTA TOWNSHIP	1007264517	MIDOT BRIDGE (S03-23081)	I-496 RAMP UNDER CANAL ROAD	48917	RCRIS-SQG
DELTA TOWNSHIP	1007264533	MIDOT BRIDGE (S04-23081)	I-496 UNDER CANAL ROAD	48917	RCRIS-SQG
DELTA TWP/LANSING	1004725955	MI DEPT/TRANSPORTATION BRIDGE S02 &S02-4	I-96/M-43 (S02 AND S02-4 OF 23	48917	RCRIS-SQG, FINDS
DELTA TWP/LANSING	1004725950	MI DEPT/TRANSPORTATION BRIDGE S16-23063	MILLETT RD/I-69 S16-23063	48917	RCRIS-SQG, FINDS
DELTA TWP/LANSING	1004725956	MI DEPT/TRANSPORTATION BRIDGE S06-23152	MILLETT RD/I-96 (S06-23152)	48917	RCRIS-SQG, FINDS
GRAND LEDGE	S100069598	HAMPTONS DISPOSAL	CLINTONIA HWY	48837	HIST LF
GRAND LEDGE	U003833360	DAN NEUENSCHWANDER FARM	1161 GRAND LEDGE HWY	48837	UST
GRAND LEDGE	1003871041	GRAND LEDGE CLAY PROD PIT	3629 W JEFFERSON	48837	SHWS, CERC-NFRAP
GRAND LEDGE	S105143984	PARSONS CHEMICAL WORKS, INC.	3562 W. JEFFERSON STREET	48837	SHWS
LANSING	91222916	I-96 & I-496 DELTA TOWNSHIP	I-96 & I-496 DELTA TOWNSHIP		ERNS
LANSING	1005832172	GENERAL MOTORS CORP - DELTA ASSEMBLY PLT	I-69 AND DAVIS ROAD	48917	FINDS
LANSING	S103595390	BOC PLANT#3-FRMR PLATING AREA	BLK 'TWEEN WILLOW / SAGINAW HWY	48917	SHWS
LANSING	1000126755	GMC OLDSMOBILE DIV PLT 5	CANAL RD	48917	RCRIS-SQG, FINDS
LANSING	1001961045	MI DEPT/TRANSPORTATION BRIDGES S01,S17-3	I-496/US-27 RAMP	48917	RCRIS-SQG, FINDS
LANSING	8864728	601 ISLAND AVE POWER PLANT	601 ISLAND AVE POWER PLANT		ERNS
LANSING	93325604	LANSING ST AND SAGINAW ST	LANSING ST AND SAGINAW ST		ERNS
LANSING	1007101792	BRUCE CARTAGE INC	56704 MILLET HWY	48917	RCRIS-SQG
LANSING	1007099585	VOORHORST TRUCKING (E)	I-496 OFF RAMP & DREYTS RD	48917	RCRIS-SQG
LANSING	S104910061	VACANT PARCEL ON M-43	W. SAGINAW HWY.		BEA
LANSING	S104910666	LANSING CONNECTING RAILROAD ROW (FORMER)	SECTIONS 15 / 22, T4N, R2W		BEA
LANSING	1000466145	SHERATON INN LANSING FUJI	555 TAXTER RD	48917	RCRIS-SQG, FINDS
LANSING	1007284055	LANSING MALL	5330 WISAGANAW	48917	FTTS INSP
LANSING	1007370999	LANSING BOARD OF WATER & LIGHT	5411 WISE ROAD	48917	RCRIS-SQG
YPSILANTI	S105965721	FORD RAWSONVILLE PLANT	TEXTILE / MC KEAN RD	48917	DEL SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

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: 04/27/04

Date Made Active at EDR: 05/21/04

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/04/04

Elapsed ASTM days: 17

Date of Last EDR Contact: 05/04/04

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 8

Telephone: 303-312-6774

EPA Region 4

Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 04/27/04

Date Made Active at EDR: 05/21/04

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/04/04

Elapsed ASTM days: 17

Date of Last EDR Contact: 05/04/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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: 05/17/04

Date Made Active at EDR: 08/10/04

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/23/04

Elapsed ASTM days: 48

Date of Last EDR Contact: 06/23/04

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/17/04
Date Made Active at EDR: 08/10/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/23/04
Elapsed ASTM days: 48
Date of Last EDR Contact: 06/23/04

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/15/04
Date Made Active at EDR: 08/10/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/25/04
Elapsed ASTM days: 46
Date of Last EDR Contact: 06/07/04

RCRIS: Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS 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. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/04
Date Made Active at EDR: 07/20/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 06/23/04
Elapsed ASTM days: 27
Date of Last EDR Contact: 06/23/04

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/03
Date Made Active at EDR: 03/12/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/26/04
Elapsed ASTM days: 46
Date of Last EDR Contact: 07/26/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 06/22/04
Date of Next Scheduled EDR Contact: 09/13/04

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

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: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Source: EPA
Telephone: 703-416-0223

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: 04/08/04
Database Release Frequency: Annually

Date of Last EDR Contact: 07/07/04
Date of Next Scheduled EDR Contact: 10/04/04

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

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: 04/27/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/04/04
Date of Next Scheduled EDR Contact: 08/02/04

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

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: 04/08/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/06/04
Date of Next Scheduled EDR Contact: 10/04/04

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/17/04
Database Release Frequency: Annually

Date of Last EDR Contact: 04/20/04
Date of Next Scheduled EDR Contact: 07/19/04

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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: 04/19/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/06/04
Date of Next Scheduled EDR Contact: 10/04/04

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 03/05/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/30/04
Date of Next Scheduled EDR Contact: 09/27/04

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (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 receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/24/04
Date of Next Scheduled EDR Contact: 08/23/04

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/30/04
Database Release Frequency: Annually

Date of Last EDR Contact: 05/12/04
Date of Next Scheduled EDR Contact: 08/09/04

DOD: Department of Defense Sites

Source: USGS
Telephone: 703-692-8801

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: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/14/04
Date of Next Scheduled EDR Contact: 08/09/04

STORMWATER: Storm Water General Permits

Source: Environmental Protection Agency
Telephone: 202 564-0746

A listing of all facilities with Storm Water General Permits.

Date of Government Version: N/A
Database Release Frequency: Quarterly

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

INDIAN RESERV: Indian Reservations

Source: USGS
Telephone: 202-208-3710

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/14/04
Date of Next Scheduled EDR Contact: 08/09/04

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

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 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: 04/14/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/14/04
Date of Next Scheduled EDR Contact: 09/13/04

RMP: Risk Management Plans

Source: Environmental Protection Agency
Telephone: 202-564-8600

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Database Release Frequency: N/A

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285

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: 10/01/03
Database Release Frequency: Varies

Date of Last EDR Contact: 07/06/04
Date of Next Scheduled EDR Contact: 10/04/04

UMTRA: Uranium Mill Tailings Sites

Source: Department of Energy
Telephone: 505-845-0011

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. In 1978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: 04/22/04
Database Release Frequency: Varies

Date of Last EDR Contact: 06/21/04
Date of Next Scheduled EDR Contact: 09/20/04

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

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: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/07/04
Date of Next Scheduled EDR Contact: 09/06/04

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-566-0250

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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 06/22/04
Date of Next Scheduled EDR Contact: 09/20/04

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

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: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 06/07/04
Date of Next Scheduled EDR Contact: 09/06/04

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA
Telephone: 202-564-2501

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/21/04
Date of Next Scheduled EDR Contact: 09/20/04

SSTS: Section 7 Tracking Systems

Source: EPA
Telephone: 202-564-5008

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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 07/20/04
Date of Next Scheduled EDR Contact: 10/18/04

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501

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: 04/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/21/04
Date of Next Scheduled EDR Contact: 09/20/04

STATE OF MICHIGAN ASTM STANDARD RECORDS

SHWS: Contaminated Sites

Source: Department of Environmental Quality
Telephone: 517-373-9541

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: 05/24/04
Date Made Active at EDR: 07/01/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/25/04
Elapsed ASTM days: 37
Date of Last EDR Contact: 05/25/04

SWF/LF: Solid Waste Facilities Database

Source: Department of Environmental Quality
Telephone: 517-335-4035

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: 05/25/04
Date Made Active at EDR: 07/09/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/04/04
Elapsed ASTM days: 35
Date of Last EDR Contact: 07/26/04

LUST: Leaking Underground Storage Tank Sites

Source: Department of Environmental Quality
Telephone: 517-373-8168

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: 06/12/04
Date Made Active at EDR: 07/27/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 06/16/04
Elapsed ASTM days: 41
Date of Last EDR Contact: 06/16/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Underground Storage Tank Facility List

Source: Department of Environmental Quality

Telephone: 517-373-8168

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/12/04

Date Made Active at EDR: 07/22/04

Database Release Frequency: Annually

Date of Data Arrival at EDR: 06/16/04

Elapsed ASTM days: 36

Date of Last EDR Contact: 06/16/04

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

Source: DEPT. OF ENVIRONMENTAL QUALITY

Telephone: 517-373-9541

Date of Government Version: 06/16/04

Date Made Active at EDR: 07/27/04

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/16/04

Elapsed ASTM days: 41

Date of Last EDR Contact: 06/14/04

INDIAN UST: Underground Storage Tanks on Indian Land

Source: EPA Region 5

Telephone: 312-886-6136

Date of Government Version: 11/01/02

Date Made Active at EDR: 12/04/02

Database Release Frequency: Varies

Date of Data Arrival at EDR: 11/12/02

Elapsed ASTM days: 22

Date of Last EDR Contact: 06/15/04

HIST LF: Inactive Solid Waste Facilities

Source: Department of Environmental Quality

Telephone: 517-335-4034

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/97

Date Made Active at EDR: 03/06/03

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/28/03

Elapsed ASTM days: 6

Date of Last EDR Contact: 02/28/03

STATE OF MICHIGAN ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Tanks

Source: Department of Environmental Quality

Telephone: 517-373-8168

Registered Aboveground Storage Tanks.

Date of Government Version: 06/01/04

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/14/04

Date of Next Scheduled EDR Contact: 09/13/04

DEL SHWS: Delisted List of Contaminated Sites

Source: Department of Environmental Quality

Telephone: 517-373-9541

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support it's listing or the site no longer meets criteria specified in rules.

Date of Government Version: 05/26/04

Database Release Frequency: Varies

Date of Last EDR Contact: 05/24/04

Date of Next Scheduled EDR Contact: 08/23/04

PEAS: Pollution Emergency Alerting System

Source: Department of Environmental Quality

Telephone: 517-373-8427

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/02/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/07/04
Date of Next Scheduled EDR Contact: 10/04/04

DRYCLEANERS: Drycleaning Establishments
Source: Department of Environmental Quality
Telephone: 517-335-4586
A listing of drycleaning facilities in Michigan.

Date of Government Version: 06/08/04
Database Release Frequency: Varies

Date of Last EDR Contact: 05/21/04
Date of Next Scheduled EDR Contact: 08/16/04

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

BROWNFIELDS DATABASES

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

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 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: N/A
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GM LANSING PLANT #5-FORMER DELTA ENG
2901 SOUTH CANAL ROAD
LANSING, MI 48917

TARGET PROPERTY COORDINATES

Latitude (North):	42.705601 - 42° 42' 20.2"
Longitude (West):	84.657501 - 84° 39' 27.0"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	691852.1
UTM Y (Meters):	4730569.0
Elevation:	872 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

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. 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.

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).

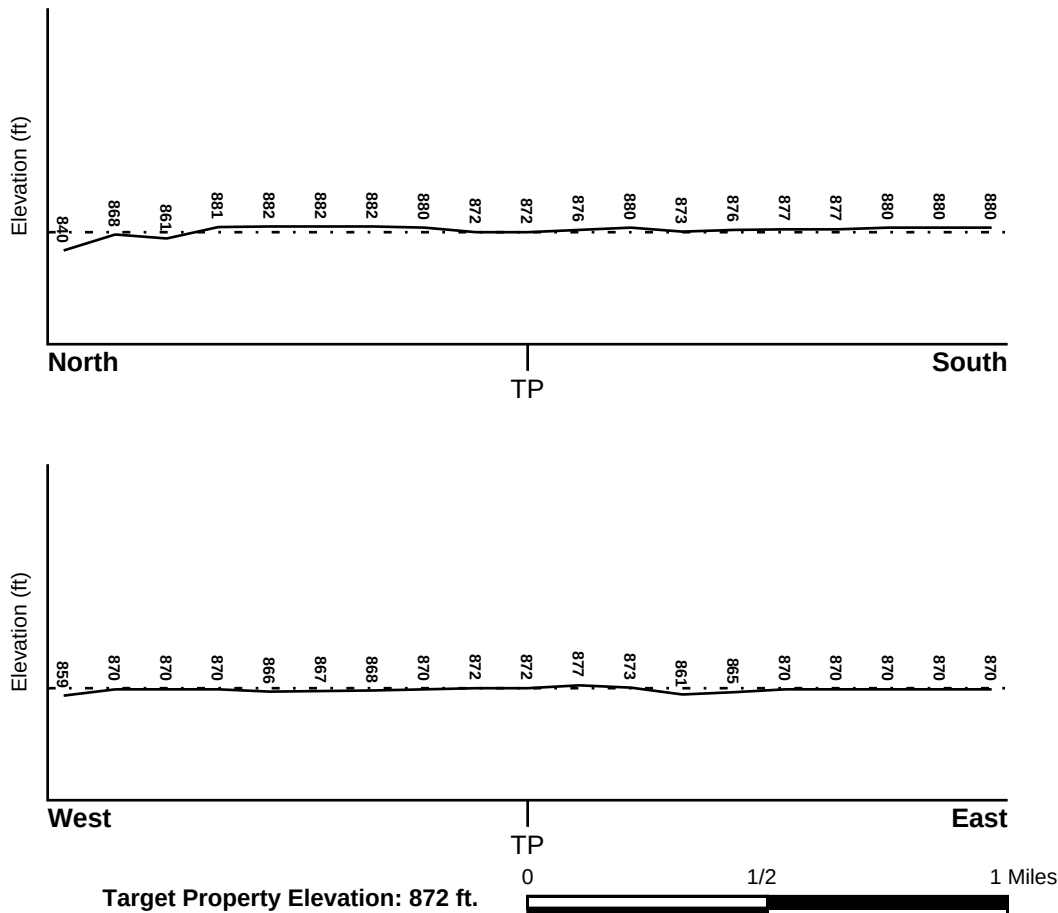
TOPOGRAPHIC INFORMATION

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

USGS Topographic Map: 42084-F6 DIMONDALE, MI
General Topographic Gradient: General South
Source: USGS 7.5 min quad index

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 Electronic Data</u>
EATON, MI	Not Available

Flood Plain Panel at Target Property:	Not Reported
---------------------------------------	--------------

Additional Panels in search area:	Not Reported
-----------------------------------	--------------

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
DIMONDALE	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 FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

* ©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 (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CAPAC
Soil Surface Texture: loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
2	8 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
3	35 inches	60 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
muck

Surficial Soil Types: sandy loam
muck

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: stratified
clay loam
sand
muck

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

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

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

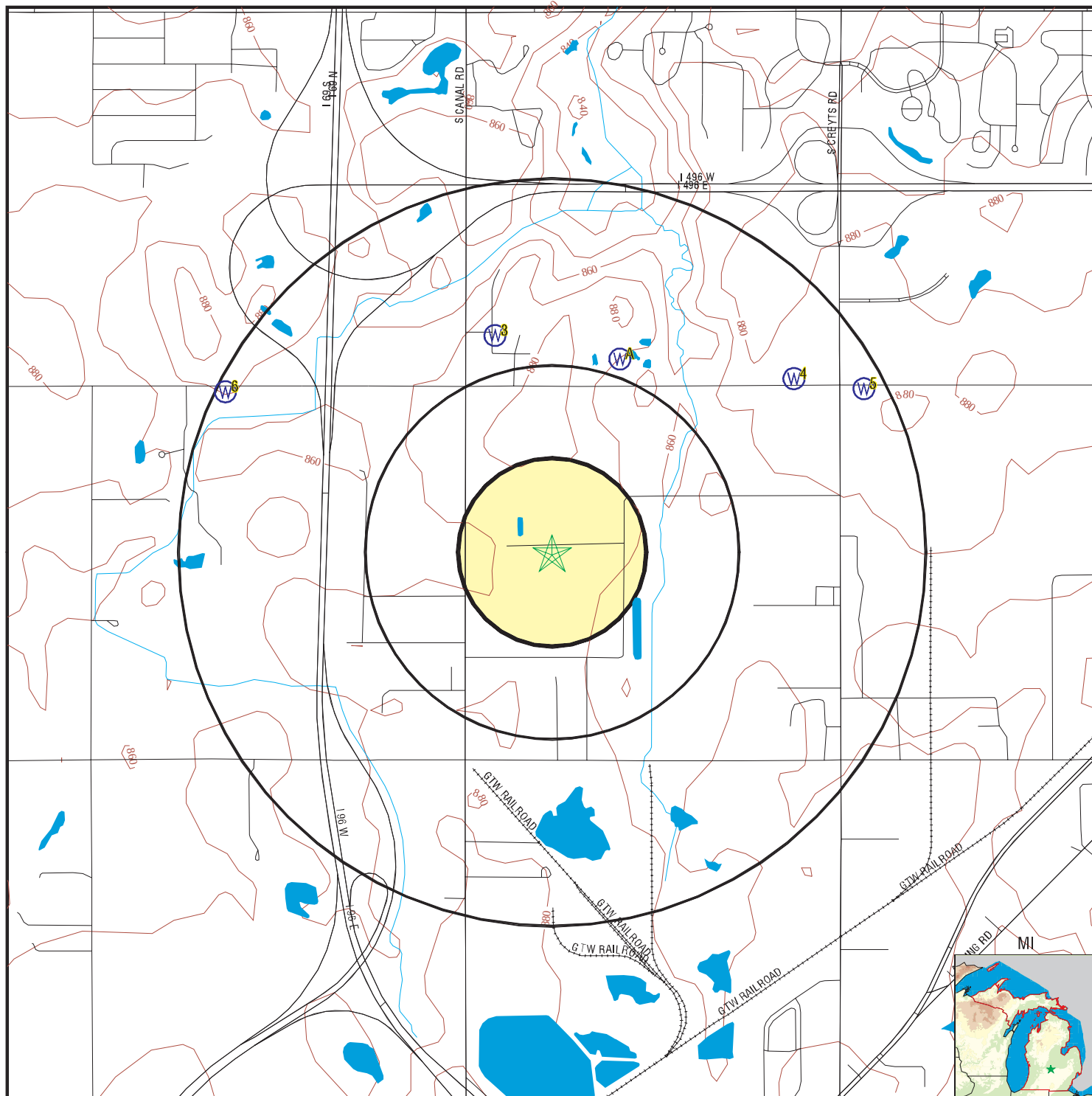
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	MIWS23000005964	1/2 - 1 Mile NNE
A2	MIWS23000005963	1/2 - 1 Mile NNE
3	MIWS23000005968	1/2 - 1 Mile NNW
4	MIWS23000005969	1/2 - 1 Mile NE
5	MIWS23000006054	1/2 - 1 Mile ENE
6	MIWS23000006059	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 1250829.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY: GM Lansing Plant #5-Former Delta Eng
ADDRESS: 2901 South Canal Road
CITY/STATE/ZIP: Lansing MI 48917
LAT/LONG: 42.7056 / 84.6575

CUSTOMER: EEC
CONTACT: Eric Kemmer
INQUIRY #: 1250829.2s
DATE: August 16, 2004 6:12 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
NNE
1/2 - 1 Mile
Lower

MI WELLS MIWS23000005964

Wellid:	23000005964	Permitno:	Not Reported
County:	Eaton	City:	LANSING
Name:	Not Reported	Well depth:	260
Const. Date:	10/24/1979 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	0	Latitude:	42.71283
Longitude:	-84.65417		

A2
NNE
1/2 - 1 Mile
Lower

MI WELLS MIWS23000005963

Wellid:	23000005963	Permitno:	Not Reported
County:	Eaton	City:	Not Reported
Name:	Not Reported	Well depth:	215
Const. Date:	06/21/1976 00:00:00	Well type:	Not Reported
Drill method:	Not Reported	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	30	Latitude:	42.71335
Longitude:	-84.6537		

3
NNW
1/2 - 1 Mile
Higher

MI WELLS MIWS23000005968

Wellid:	23000005968	Permitno:	Not Reported
County:	Eaton	City:	GRAND LEDGE
Name:	Not Reported	Well depth:	155
Const. Date:	11/15/1973 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	0	Latitude:	42.714
Longitude:	-84.6605		

4
NE
1/2 - 1 Mile
Higher

MI WELLS MIWS23000005969

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000005969	Permitno:	Not Reported
County:	Eaton	City:	LANSING
Name:	Not Reported	Well depth:	245
Const. Date:	09/30/1993 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	70	Latitude:	42.71233
Longitude:	-84.64479		

5 ENE 1/2 - 1 Mile Higher

MI WELLS

MIWS23000006054

Wellid:	23000006054	Permitno:	Not Reported
County:	Eaton	City:	LANSING
Name:	Not Reported	Well depth:	200
Const. Date:	05/11/1971 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	0	Latitude:	42.71194
Longitude:	-84.64111		

6 WNW 1/2 - 1 Mile Higher

MI WELLS

MIWS23000006059

Wellid:	23000006059	Permitno:	Not Reported
County:	Eaton	City:	GRAND LEDGE
Name:	Not Reported	Well depth:	185
Const. Date:	08/09/1976 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	60	Pump time:	1
Pump capac:	30	Latitude:	42.71182
Longitude:	-84.67467		

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	48917	0	2/13/88	1.1	25.9%		
Random	48917	0	1/10/88	1.3	13.8%		
Random	48917	0	5/21/87	2.5	14.3%		
Random	48917	0	1/18/88	3.0	7.8%		
Random	48917	0	4/11/87	1.8	15.8%		
Random	48917	0	5/23/87	4.5	6.5%		
Random	48917	0	5/15/87	4.6	6.2%		

State Database: MI Radon

Radon Test Results

Zip	Less than sign	Pci/L
48917		1.30
48917		3.40
48917		2.40
48917		5.00
48917		4.60
48917		0.60
48917		3.20
48917		3.50
48917		2.10
48917		2.90
48917		5.80
48917		4.40
48917		25.80
48917		26.50
48917		7.90
48917		9.60
48917		3.10
48917		2.30
48917		2.80
48917		0.50
48917		3.10
48917	<	0.30
48917		0.50
48917		2.20
48917		1.90
48917		5.70
48917		4.60
48917		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	1.50
48917	3.40
48917	1.80
48917	2.70
48917	4.80
48917	1.10
48917	0.90
48917	0.90
48917	3.50
48917	10.70
48917	2.80
48917	1.40
48917	2.00
48917	2.10
48917	1.20
48917	2.40
48917	2.00
48917	2.20
48917	1.80
48917	5.90
48917	2.80
48917	5.50
48917	8.40
48917	3.20
48917	2.40
48917	2.60
48917	1.00
48917	6.30
48917	1.30
48917	3.20
48917	3.10
48917	2.20
48917	0.60
48917	1.40
48917	2.60
48917	1.40
48917	2.20
48917	3.20
48917	2.20
48917	4.50
48917	1.00
48917	5.10
48917	4.60
48917	8.40
48917	0.80
48917	0.30
48917	2.80
48917	1.70
48917	2.10
48917	5.50
48917	1.30
48917	4.40
48917	3.40
48917	0.90
48917	2.20
48917	1.90
48917	

<

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	<	0.30
48917		1.30
48917		5.60
48917		2.70
48917		4.90
48917		3.10
48917		2.40
48917	<	0.20
48917	<	0.20
48917		0.50
48917		1.30
48917		6.80
48917	<	0.30
48917		2.70
48917		3.40
48917		2.90
48917		2.50
48917		1.30
48917		1.60
48917		2.40
48917		2.90
48917		1.50
48917		2.30
48917		3.40
48917		6.40
48917		4.40
48917		3.90
48917		4.40
48917		2.70
48917		3.60
48917		2.00
48917		6.30
48917		1.40
48917		0.50
48917		7.20
48917		5.80
48917		5.70
48917		9.10
48917		0.90
48917		7.60
48917		3.40
48917		3.40
48917		2.70
48917		4.10

Federal EPA Radon Zone for EATON 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.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal Area Radon Information for Zip Code: 48917

Number of sites tested: 5

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	2.240 pCi/L	80%	20%	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. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

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 from the U.S. Fish and Wildlife Service.

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.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality, Drinking Water and Radiological Protection Division
Telephone: 517-335-9218

Michigan Oil and Gas Wells

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

RADON

State Database: MI Radon

Source: Department of Environmental Quality
Telephone: 517-335-9551
Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality
Telephone: 517-335-8037
These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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



The EDR Radius Map with GeoCheck®

**GM Lansing Plant #5-Former Delta Eng
2901 South Canal Road
Lansing, MI 48917**

Inquiry Number: 1250829.2s

August 16, 2004

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

2901 SOUTH CANAL ROAD
LANSING, MI 48917

COORDINATES

Latitude (North): 42.705600 - 42° 42' 20.2"
Longitude (West): 84.657500 - 84° 39' 27.0"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 691852.1
UTM Y (Meters): 4730569.0
Elevation: 872 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 42084-F6 DIMONDALE, MI
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

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

Site	Database(s)	EPA ID
LANSING POWEERTRAIN DELTA ENGINE 2901 S CANAL RD LANSING, MI 48921	LUST UST	N/A
GMC-BOC LANSING AUTO DIV PH5 2901 SOUTH CANAL ROAD EATON, MI 48917	RCRIS-SQG FINDS TRIS RCRIS-TSD CORRACTS CERC-NFRAP	48921BCPWR29

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 ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System

STATE ASTM STANDARD

SWF/LF..... Solid Waste Facilities Database
HIST LF..... Inactive Solid Waste Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
UMTRA..... Uranium Mill Tailings Sites
FUDS..... Formerly Used Defense Sites
INDIAN RESERV..... Indian Reservations
US BROWNFIELDS..... A Listing of Brownfields Sites
DOD..... Department of Defense Sites
RAATS..... RCRA Administrative Action Tracking System
TSCA..... Toxic Substances Control Act
SSTS..... Section 7 Tracking Systems
FTTS INSP..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Tanks
DEL SHWS..... Delisted List of Contaminated Sites
PEAS..... Pollution Emergency Alerting System
DRYCLEANERS..... Drycleaning Establishments

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

BROWNFIELDS DATABASES

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

EXECUTIVE SUMMARY

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

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

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

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

FEDERAL ASTM STANDARD

RCRIS: Resource Conservation and Recovery Information System. RCRIS 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. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-SQG list, as provided by EDR, and dated 06/15/2004 has revealed that there are 7 RCRIS-SQG sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>FLEET IMAGE OF LANSING INC</i>	<i>7721 LANAC ST</i>	<i>1/4 - 1/2WSW 8</i>		<i>18</i>
USA TODAY - LANSING FACILITY	2960 ENA DRIVE	1/2 - 1 WSW C11		20
<i>LANSING STATE JOURNAL DELTA FA</i>	<i>2960 ENA ST</i>	<i>1/2 - 1 WSW C12</i>		<i>20</i>
ECONO TRAVEL LLC	7300 MILLETT HWY	1/2 - 1 S D13		20
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CIS	7707 RICKLE	1/4 - 1/2WSW B4		16
<i>NATIONWIDE TRUCK BROKERS - LAN</i>	<i>6601 SLOAN HWY</i>	<i>1/2 - 1 ESE 18</i>		<i>23</i>
KENNEDY MASONRY (E)	6554 SLOAN	1/2 - 1 ESE 20		25

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2003 has revealed that there is 1 ERNS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported		1/4 - 1/2SSW 9		19

EXECUTIVE SUMMARY

STATE ASTM STANDARD

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, has revealed that there is 1 SHWS site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
REITH-RILEY	4150 CREYTS ROAD	1 - 2 SE	28	41

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 06/12/2004 has revealed that there are 11 LUST sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CENTRAL DAIRY SUPPLY, INC	2810 S CANAL RD	1/4 - 1/2 WSW	B7	18
SHREVE STEEL	3333 S CANAL RD	1/2 - 1 SSW	10	19
SHREVE STEEL	7300 MILLETT HWY	1/2 - 1 S	D16	22
CONSOLIDATED FREIGHTWAYS	6726 MILLETT HWY	1/2 - 1 SE	21	25
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LANSING LAWN SNOW	2530 S CANAL RD	1/8 - 1/4 W	3	15
CLARK FOUNDATION	6851 MILLETT HWY	1/2 - 1 SE	19	23
MEIJER DC-93	2901 CREYTS RD	1/2 - 1 E	E22	26
COCA-COLA BOTTLING CO OF MI	3300 S CREYTS RD	1/2 - 1 ESE	F24	28
MEIJER DC 86	3301 S CREYTS RD	1/2 - 1 ESE	F25	30
MEIJER DC-512	3307 S CREYTS RD	1/2 - 1 ESE	F26	39
GENERAL CAR AND TRUCK LEASING	3520 S CREYTS	1/2 - 1 SE	27	40

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

A review of the UST list, as provided by EDR, and dated 06/12/2004 has revealed that there are 7 UST sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CENTRAL DAIRY SUPPLY, INC	2810 S CANAL RD	1/4 - 1/2 WSW	B6	17
SHREVE STEEL	3333 S CANAL RD	1/2 - 1 SSW	10	19
SHREVE STEEL	7300 MILLETT HWY	1/2 - 1 S	D15	21
CONSOLIDATED FREIGHTWAYS	6726 MILLETT HWY	1/2 - 1 SE	21	25
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LANSING LAWN SNOW	2530 S CANAL RD	1/8 - 1/4 W	3	15

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MILLETT HIGHWAY ASH STORAGE	7101 MILLETT HWY	1/2 - 1 SSE	17	22
CLARK FOUNDATION	6851 MILLETT HWY	1/2 - 1 SE	19	23

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 06/16/2004 has revealed that there are 2 BEA sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
7300 MILLETT HIGHWAY	7300 MILLETT HIGHWAY	1/2 - 1 S	D14	21
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
2930 S. CREYTS ROAD	2930 S. CREYTS ROAD	1/2 - 1 E	E23	28

FEDERAL ASTM SUPPLEMENTAL

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/08/2004 has revealed that there are 2 FINDS sites within approximately 0.5 miles of the target property.

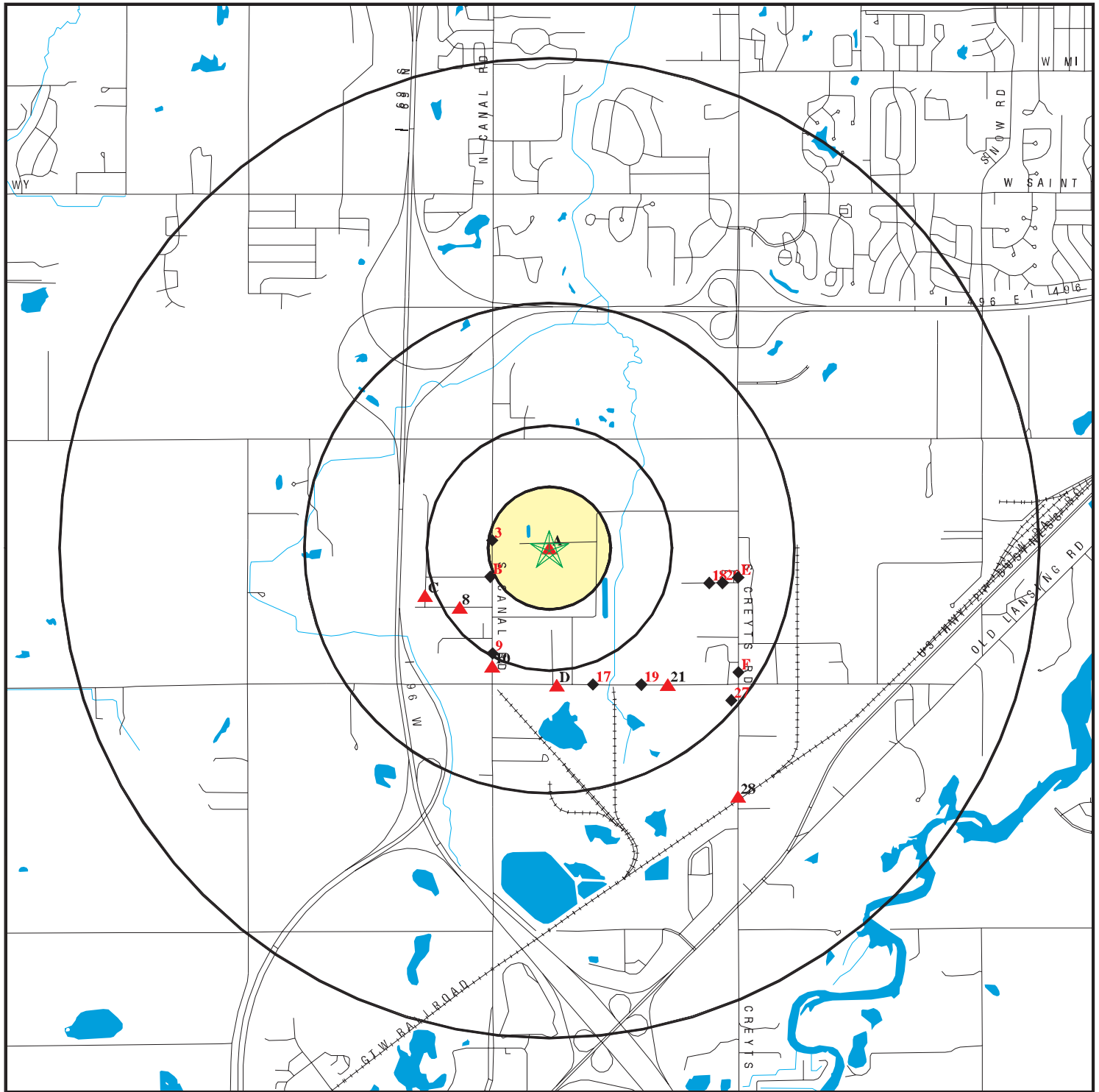
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FLEET IMAGE OF LANSING INC	7721 LANAC ST	1/4 - 1/2WSW 8		18
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CIS	7707 RICKLE	1/4 - 1/2WSW B5		17

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
LANSING MALL	FTTS INSP
GRAND LEDGE CLAY PROD PIT	SHWS, CERC-NFRAP
PARSONS CHEMICAL WORKS, INC.	SHWS
BOC PLANT#3-FRMR PLATING AREA	SHWS
HAMPTONS DISPOSAL	HIST LF
DAN NEUENSCHWANDER FARM	UST
MIDOT BRIDGE (S03-23081)	RCRIS-SQG
MIDOT BRIDGE (S04-23081)	RCRIS-SQG
MI DEPT/TRANSPORTATION BRIDGE S02 &S02-4	RCRIS-SQG, FINDS
MI DEPT/TRANSPORTATION BRIDGE S16-23063	RCRIS-SQG, FINDS
MI DEPT/TRANSPORTATION BRIDGE S06-23152	RCRIS-SQG, FINDS
GMC OLDSMOBILE DIV PLT 5	RCRIS-SQG, FINDS
MI DEPT/TRANSPORTATION BRIDGES S01,S17-3	RCRIS-SQG, FINDS
BRUCE CARTAGE INC	RCRIS-SQG
VOORHORST TRUCKING (E)	RCRIS-SQG
SHERATON INN LANSING FUJI	RCRIS-SQG, FINDS
LANSING BOARD OF WATER & LIGHT	RCRIS-SQG
I-96 & I-496 DELTA TOWNSHIP	ERNS
601 ISLAND AVE POWER PLANT	ERNS
LANSING ST AND SAGINAW ST	ERNS
GENERAL MOTORS CORP - DELTA ASSEMBLY PLT	FINDS
VACANT PARCEL ON M-43	BEA
LANSING CONNECTING RAILROAD ROW (FORMER)	BEA
FORD RAWSONVILLE PLANT	DEL SHWS

OVERVIEW MAP - 1250829.2s - EEC



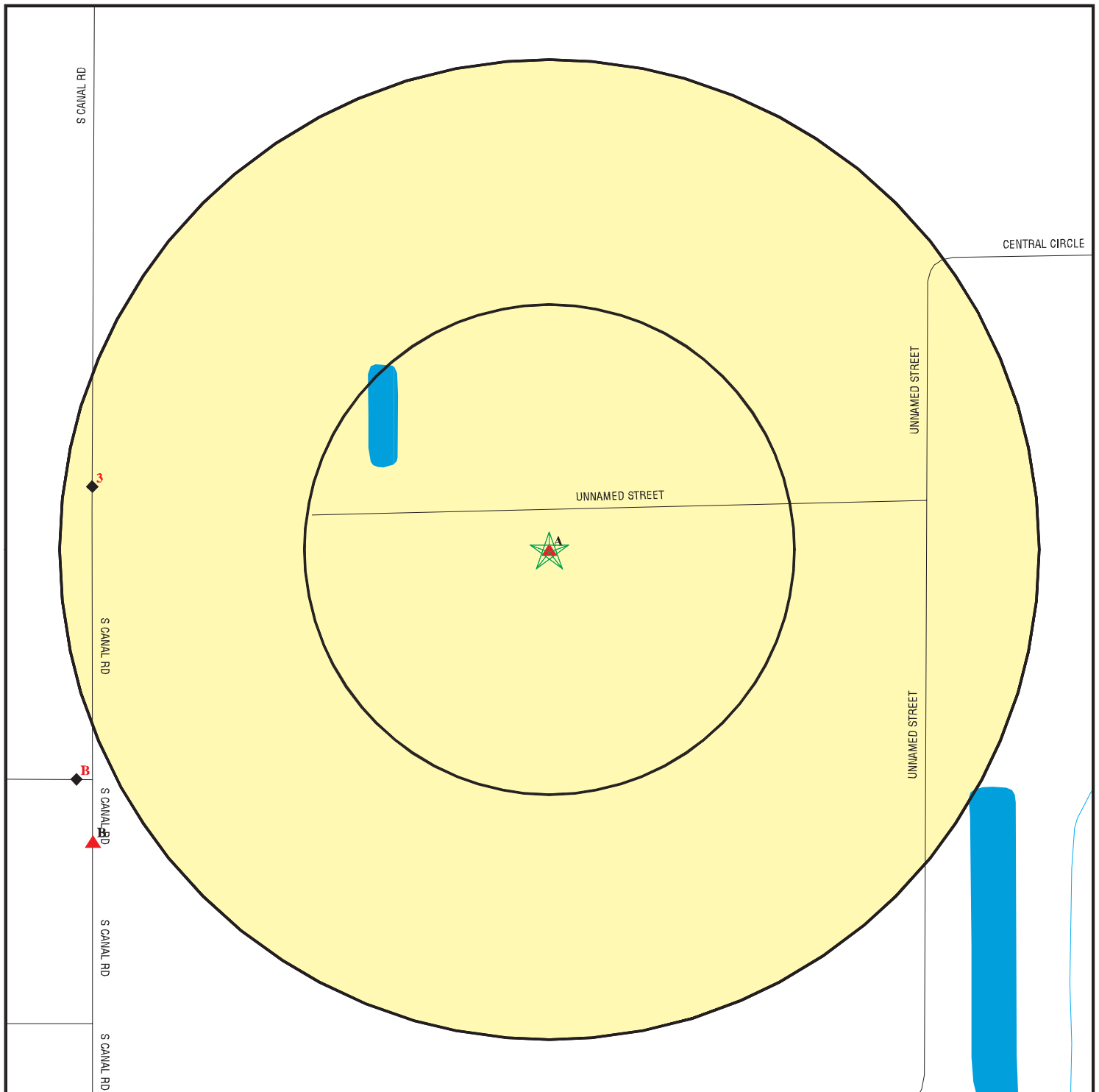
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Oil & Gas pipelines

TARGET PROPERTY: GM Lansing Plant #5-Former Delta Eng
 ADDRESS: 2901 South Canal Road
 CITY/STATE/ZIP: Lansing MI 48917
 LAT/LONG: 42.7056 / 84.6575

CUSTOMER: EEC
 CONTACT: Eric Kemmer
 INQUIRY #: 1250829.2s
 DATE: August 16, 2004 6:11 pm

DETAIL MAP - 1250829.2s - EEC



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Coal Gasification Sites
- ⚙ Sensitive Receptors
- ⚙ National Priority List Sites
- ⚙ Landfill Sites
- ⚙ Dept. Defense Sites

- Indian Reservations BIA
- Oil & Gas pipelines

0 1/16 1/8 1/4 Miles



TARGET PROPERTY: GM Lansing Plant #5-Former Delta Eng
 ADDRESS: 2901 South Canal Road
 CITY/STATE/ZIP: Lansing MI 48917
 LAT/LONG: 42.7056 / 84.6575

CUSTOMER: EEC
 CONTACT: Eric Kemmer
 INQUIRY #: 1250829.2s
 DATE: August 16, 2004 6:11 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
<u>FEDERAL ASTM STANDARD</u>								
NPL		1.500	0	0	0	0	0	0
Proposed NPL		1.500	0	0	0	0	0	0
CERCLIS		1.000	0	0	0	0	NR	0
CERC-NFRAP	X	0.750	0	0	0	0	NR	0
CORRACTS	X	1.500	0	0	0	0	0	0
RCRIS-TSD	X	1.000	0	0	0	0	NR	0
RCRIS Lg. Quan. Gen.		0.750	0	0	0	0	NR	0
RCRIS Sm. Quan. Gen.	X	0.750	0	0	2	5	NR	7
ERNS		0.500	0	0	1	NR	NR	1
<u>STATE ASTM STANDARD</u>								
State Haz. Waste		1.500	0	0	0	0	1	1
State Landfill		1.000	0	0	0	0	NR	0
LUST	X	1.000	0	1	1	9	NR	11
UST	X	0.750	0	1	1	5	NR	7
BEA		1.000	0	0	0	2	NR	2
HIST LF		1.000	0	0	0	0	NR	0
INDIAN UST		0.750	0	0	0	0	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		1.500	0	0	0	0	0	0
ROD		1.500	0	0	0	0	0	0
Delisted NPL		1.500	0	0	0	0	0	0
FINDS	X	0.500	0	0	2	NR	NR	2
HMIRS		0.500	0	0	0	NR	NR	0
MLTS		0.500	0	0	0	NR	NR	0
MINES		0.750	0	0	0	0	NR	0
NPL Liens		0.500	0	0	0	NR	NR	0
PADS		0.500	0	0	0	NR	NR	0
UMTRA		1.000	0	0	0	0	NR	0
FUDS		1.500	0	0	0	0	0	0
INDIAN RESERV		1.500	0	0	0	0	0	0
US BROWNFIELDS		1.000	0	0	0	0	NR	0
DOD		1.500	0	0	0	0	0	0
RAATS		0.500	0	0	0	NR	NR	0
TRIS	X	0.500	0	0	0	NR	NR	0
TSCA		0.500	0	0	0	NR	NR	0
SSTS		0.500	0	0	0	NR	NR	0
FTTS		0.500	0	0	0	NR	NR	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
AST		0.500	0	0	0	NR	NR	0
DEL SHWS		1.500	0	0	0	0	0	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
PEAS		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.750	0	0	0	0	NR	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>								
Coal Gas		1.500	0	0	0	0	0	0
<u>BROWNFIELDS DATABASES</u>								
US BROWNFIELDS		1.000	0	0	0	0	NR	0

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1 **LANSING POWEERTRAIN DELTA ENGINE**
Target **2901 S CANAL RD**
Property **LANSING, MI 48921**

LUST **U003330605**
UST **N/A**

Site 1 of 2 in cluster A

Actual:
872 ft.

LUST:

Facility ID: 00013824
Release Number: Closed
Release Date: Oct 15 2001
District: Lansing District Office
Closed Date: Nov 19 2001
Owner Contact : Not reported
Owner Name : Gm Corp
Owner Address : MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Country : USA
Owner Phone : 517-885-1155
Contact : KIURT BLIZZARD
Facility Phone : 517-885-1155
Leak Number: C-1308-01

Facility ID: 00013824
Release Number: Closed
Release Date: Oct 2 1990
District: Lansing District Office
Closed Date: Jan 13 1995
Owner Contact : Not reported
Owner Name : Gm Corp
Owner Address : MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Country : USA
Owner Phone : 517-885-1155
Contact : KIURT BLIZZARD
Facility Phone : 517-885-1155
Leak Number: C-1954-90

UST:

Facility ID: 00013824
Tank ID: 1
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: SPARE-NEVER USED
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 2
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: SPARE-NEVER USED
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device:No
Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 3
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: SPARE-NEVER USED
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device:No
Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 4
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

LANSING, MI 48921
Owner Phone: 517-885-1155
Product: HYDRAULIC OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: May 6 1981
Release Detection:
 Tank: Not reported
 Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 5
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
 LANSING, MI 48921
Owner Phone: 517-885-1155
Product: WAY LUBE OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: May 6 1981
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00013824
Tank ID: 6
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
 LANSING, MI 48921
Owner Phone: 517-885-1155
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

Impressed Device: No

Install Date: May 6 1981

Release Detection:

Tank: Not reported

Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824

Tank ID: 7

Owner: Gm Corp

Owner Country: USA

Owner Contact: Not reported

Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921

Owner Phone: 517-885-1155

Product: MOTOR OIL

Capacity: 20000

Tank Status: Removed from Ground

Remove Date: Sep 29 1993

Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel

Piping Material: Bare Steel

Piping Type: Not reported

Contact: KIURT BLIZZARD

Contact Phone: 517-885-1155

Impressed Device: No

Install Date: May 6 1981

Release Detection:

Tank: Not reported

Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824

Tank ID: 8

Owner: Gm Corp

Owner Country: USA

Owner Contact: Not reported

Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921

Owner Phone: 517-885-1155

Product: MOTOR OIL

Capacity: 20000

Tank Status: Removed from Ground

Remove Date: Sep 29 1993

Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel

Piping Material: Bare Steel

Piping Type: Not reported

Contact: KIURT BLIZZARD

Contact Phone: 517-885-1155

Impressed Device: No

Install Date: May 6 1981

Release Detection:

Tank: Not reported

Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824

Tank ID: 9

Owner: Gm Corp

Owner Country: USA

Owner Contact: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: SPARE-NEVER USED
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device:No
Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 10
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: Gasoline
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device:No
Install Date: May 6 1981
Release Detection:
Tank: Not reported
Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 11
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: HONE COOLANT OIL
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Sep 29 1993
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Not reported
Contact: KIURT BLIZZARD

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

LANSING POWERTRAIN DELTA ENGINE (Continued)

U003330605

Contact Phone: 517-885-1155
Impressed Device: No
Install Date: May 6 1981
Release Detection:
 Tank: Not reported
 Pipe: Interstitial Monitoring/Second Containment

Facility ID: 00013824
Tank ID: 12
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
 LANSING, MI 48921

Owner Phone: 517-885-1155
Product: Gasoline
Capacity: 5000
Tank Status: Removed from Ground
Remove Date: Nov 16 2001
Constr Material: Cathodically Protected Steel, Double Walled
Piping Material: Bare Steel, Double Walled
Piping Type: Gravity Fed?, Pressure, Suction: No Valve At Tank, Suction: Valve at Tank
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: May 6 1986
Release Detection:
 Tank: Inter Monitoring Double Walled Tank
 Pipe: Interstitial Monitoring Double Walled Piping

Facility ID: 00013824
Tank ID: 13
Owner: Gm Corp
Owner Country: USA
Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
 LANSING, MI 48921

Owner Phone: 517-885-1155
Product: Hazardous Substance
Capacity: 5000
Tank Status: Removed from Ground
Remove Date: Oct 31 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Pressure
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: Jan 1 1981
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00013824
Tank ID: SA-01
Owner: Gm Corp
Owner Country: USA

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

LANSING POWERTRAIN DELTA ENGINE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003330605

Owner Contact: Not reported
Owner Address: MAIL CODE:485-070-035 920 TOWNSEND
LANSING, MI 48921
Owner Phone: 517-885-1155
Product: Not reported
Capacity: Not reported
Tank Status: NON-Registered Tank
Remove Date: Not reported
Constr Material: Not reported
Piping Material: Not reported
Piping Type: Not reported
Contact: KIURT BLIZZARD
Contact Phone: 517-885-1155
Impressed Device: No
Install Date: Not reported
Release Detection:
Tank: Not reported
Pipe: Not reported

A2
Target
Property

GMC-BOC LANSING AUTO DIV PH5
2901 SOUTH CANAL ROAD
EATON, MI 48917

RCRIS-SQG 1000126753
FINDS 48921BCPWR29
TRIS
RCRIS-TSD
CORRACTS
CERC-NFRAP

Actual:
872 ft.

Site 2 of 2 in cluster A

CERCLIS-NFRAP Classification Data:

Site Incident Category: Not reported
Non NPL Code: DR
Ownership Status: Unknown

Federal Facility: Not a Federal Facility

NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment: DISCOVERY
Assessment: PRELIMINARY ASSESSMENT
Assessment: ARCHIVE SITE

Completed: 02/10/1992
Completed: 05/22/1992
Completed: 12/18/1995

CORRACTS Data:

EPA Id: MID980700843
Region: 5
Area Name: ENTIRE FACILITY
Actual Date: 10/15/1985
Corrective Action: CA050 - RFA Completed
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

EPA Id: MID980700843
Region: 5
Area Name: ENTIRE FACILITY
Actual Date: 10/15/1985
Corrective Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

EPA Id: MID980700843
Region: 5
Area Name: ENTIRE FACILITY
Actual Date: 06/11/1992
Corrective Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GMC-BOC LANSING AUTO DIV PH5 (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000126753

EPA Id: MID980700843
Region: 5
Area Name: ENTIRE FACILITY
Actual Date: 06/11/1992
Corrective Action: CA225IN - Stabilization Measures Evaluation, This facility is not , amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available

2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

RCRIS Corrective Action Summary:

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 06/11/1992
Event: Stabilization Measures Evaluation, This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.
Event Date: 06/11/1992
Event: RFA Completed
Event Date: 10/15/1985
Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 10/15/1985

RCRIS:

Owner: GENERAL MOTORS CORPORATION
EPA ID: MID980700843
Contact: KURT BLIZZARD
(517) 885-1155

Classification: TSDF, Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 04/19/2001
Actual Date Achieved Compliance: 10/15/2001
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/25/2001
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: GENERATOR-OTHER REQUIREMENTS
Date Violation Determined: 04/30/1996
Actual Date Achieved Compliance: 12/05/1996
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/30/1996
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 04/30/1996

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GMC-BOC LANSING AUTO DIV PH5 (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000126753

Actual Date Achieved Compliance: 12/05/1996
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/30/1996
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/26/1988
Actual Date Achieved Compliance: 12/08/1988
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1988
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/26/1988
Actual Date Achieved Compliance: 12/08/1988
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1988
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/21/1988
Actual Date Achieved Compliance: 12/08/1988
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/30/1988
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 06/07/1988
Actual Date Achieved Compliance: 12/08/1988
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/14/1988
Penalty Type: Not reported
Regulation Violated: Not reported
Area of Violation: TRANSPORTER-OTHER REQUIREMENTS
Date Violation Determined: 06/19/1985
Actual Date Achieved Compliance: 07/18/1985
Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/18/1985
Penalty Type: Not reported

There are 8 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20011015
Other Evaluation	GENERATOR-OTHER REQUIREMENTS	19961205
	GENERATOR-LAND BAN REQUIREMENTS	19961205
Compliance Evaluation Inspection	GENERATOR-OTHER REQUIREMENTS	19961205
	GENERATOR-LAND BAN REQUIREMENTS	19961205
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19881208
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19881208
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19881208
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19881208

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GMC-BOC LANSING AUTO DIV PH5 (Continued)

EDR ID Number
EPA ID Number

Compliance Evaluation Inspection

TRANSPORTER-OTHER REQUIREMENTS

19850718

1000126753

FINDS:

Other Pertinent Environmental Activity Identified at Site:

National Toxics Inventory

Resource Conservation and Recovery Act Information system

Toxics Release Inventory

3
West
1/8-1/4
1243 ft.

LANSING LAWN SNOW
2530 S CANAL RD
LANSING, MI 48917

LUST **U003081244**
UST **N/A**

Relative:
Lower

LUST:

Facility ID: 00002965
Release Number: Closed
Release Date: Dec 26 2001
District: Lansing District Office
Closed Date: Jun 12 2002
Owner Contact : Not reported
Owner Name : Lansing Lawn Snow
Owner Address : 2530 S Canal Rd
Lansing, MI 48917
Country : USA
Owner Phone : (517) 322-2200
Contact : ROBERT D SEPETER
Facility Phone : (517) 322-2200
Leak Number: C-0312-02

UST:

Facility ID: 00002965
Tank ID: 1
Owner: Lansing Lawn Snow
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2530 S Canal Rd
Lansing, MI 48917
Owner Phone: (517) 322-2200
Product: Gasoline
Capacity: 1000
Tank Status: Removed from Ground
Remove Date: Apr 1 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT D SEPETER
Contact Phone: (517) 322-2200
Impressed Device: No
Install Date: May 6 1979
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00002965
Tank ID: 2
Owner: Lansing Lawn Snow
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2530 S Canal Rd

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

LANSING LAWN SNOW (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003081244

Lansing, MI 48917
Owner Phone: (517) 322-2200
Product: Diesel
Capacity: 1000
Tank Status: Removed from Ground
Remove Date: Apr 1 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT D SEPETER
Contact Phone: (517) 322-2200
Impressed Device: No
Install Date: May 6 1979
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00002965
Tank ID: 3
Owner: Lansing Lawn Snow
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2530 S Canal Rd
Lansing, MI 48917
Owner Phone: (517) 322-2200
Product: Gasoline
Capacity: 500
Tank Status: Removed from Ground
Remove Date: Apr 1 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT D SEPETER
Contact Phone: (517) 322-2200
Impressed Device: No
Install Date: May 5 1980
Release Detection:
Tank: Not reported
Pipe: Not reported

B4
WSW
1/4-1/2
1416 ft.

CIS
7707 RICKLE
LANSING, MI 48917

Site 1 of 4 in cluster B

Relative:
Lower

Actual:
870 ft.

RCRIS-SQG 1007100793
MIK881828222

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CIS (Continued)

EDR ID Number
EPA ID Number

Database(s)

1007100793

RCRIS:

Owner: L D CLARK INC
EPA ID: MIK881828222

Contact: HENRY RYAN
(517) 241-0582

Classification: Conditionally Exempt Small Quantity Generator
TSD Activities: Not reported

Violation Status: No violations found

B5
WSW
1/4-1/2
1416 ft.

CIS
7707 RICKLE
LANSING, MI 48917

FINDS 1007141385
110015897573

Site 2 of 4 in cluster B

Relative:
Lower

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

Actual:
870 ft.

B6
WSW
1/4-1/2
1460 ft.

CENTRAL DAIRY SUPPLY, INC
2810 S CANAL RD
LANSING, MI 48917

UST U003867091
N/A

Site 3 of 4 in cluster B

Relative:
Equal

UST:

Facility ID: 00011970
Tank ID: 1
Owner: Central Dairy Supply, Inc
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2810 S Canal Rd
Lansing, MI 48917
Owner Phone: (517) 322-2083
Product: Gasoline
Capacity: 1000
Tank Status: Removed from Ground
Remove Date: Sep 10 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: ROY CALDWELL
Contact Phone: (517) 322-2083
Impressed Device: No
Install Date: May 6 1976
Release Detection:
Tank: Not reported
Pipe: Not reported

Actual:
872 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

B7
WSW
1/4-1/2
1460 ft.

CENTRAL DAIRY SUPPLY, INC
2810 S CANAL RD
LANSING, MI 48917

Site 4 of 4 in cluster B

Relative:
Equal

LUST:

Actual:
872 ft.

Facility ID: 00011970
Release Number: Closed
Release Date: Jun 14 1990
District: Lansing District Office
Closed Date: Jun 8 2000
Owner Contact : Not reported
Owner Name : Central Dairy Supply, Inc
Owner Address : 2810 S Canal Rd
Lansing, MI 48917
Country : USA
Owner Phone : (517) 322-2083
Contact : ROY CALDWELL
Facility Phone : (517) 322-2083
Leak Number: C-1067-90

LUST **S105213515**
N/A

8
WSW
1/4-1/2
2318 ft.

FLEET IMAGE OF LANSING INC
7721 LANAC ST
LANSING, MI 48917

Relative:
Higher

RCRIS:

Actual:
878 ft.

Owner: BRANDT PROPERTIES
EPA ID: MID981953938
Contact: BRIAN BRANDT
(517) 332-0063

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 02/22/2001
Actual Date Achieved Compliance: 06/28/2001

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/2001
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 02/22/2001
Actual Date Achieved Compliance: 06/28/2001

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/2001
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-CONTAINER
Date Violation Determined: 02/22/2001
Actual Date Achieved Compliance: 06/28/2001

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/2001
Penalty Type: Not reported

RCRIS-SQG **1000223490**
FINDS **MID981953938**

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FLEET IMAGE OF LANSING INC (Continued)

1000223490

There are 3 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20010628
	GENERATOR-GENERAL REQUIREMENTS	20010628
	GENERATOR-CONTAINER	20010628

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

9
SSW
1/4-1/2
2580 ft.

LANSING, MI 48921

ERNS 95312477
N/A

Relative:
Lower

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

Actual:
870 ft.

10
SSW
1/2-1
2829 ft.

SHREVE STEEL
3333 S CANAL RD
LANSING, MI 48917

LUST U003868147
UST N/A

Relative:
Higher

LUST:

Facility ID: 00038796
Release Number: Closed
Release Date: Nov 13 1995
District: Lansing District Office
Closed Date: Jul 15 2003
Owner Contact : Not reported
Owner Name : Shreve Steel
Owner Address : 7300 Millett Hwy
Lansing, MI 48917
Country : USA
Owner Phone : (517) 243-6519
Contact : Not reported
Facility Phone : Not reported
Leak Number: C-1202-95

UST:

Facility ID: 00038796
Tank ID: 1
Owner: Shreve Steel
Owner Country: USA
Owner Contact: Not reported
Owner Address: 7300 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 243-6519
Product: Diesel
Capacity: 6000
Tank Status: Removed from Ground
Remove Date: Nov 16 1995
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SHREVE STEEL (Continued)

EDR ID Number
EPA ID Number

U003868147

Piping Type: Not reported
Contact: Not reported
Contact Phone: Not reported
Impressed Device: No
Install Date: Not reported
Release Detection:
Tank: Not reported
Pipe: Not reported

C11
WSW
1/2-1
2867 ft.

USA TODAY - LANSING FACILITY
2960 ENA DRIVE
LANSING, MI 48917

RCRIS-SQG **1007099160**
MIK631811833

Site 1 of 2 in cluster C

Relative:
Higher

RCRIS:
Owner: GANNETT COMPANY INC
EPA ID: MIK631811833
Contact: KEN SWANSON
(517) 322-2710

Actual:
878 ft.

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

C12
WSW
1/2-1
2867 ft.

LANSING STATE JOURNAL DELTA FACILITY SIT
2960 ENA ST
LANSING, MI 48917

RCRIS-SQG **1000367044**
FINDS **MID980684476**

Site 2 of 2 in cluster C

Relative:
Higher

RCRIS:
Owner: GANNETT COMPANY INC (PARENT COMPANY)
EPA ID: MID980684476
Contact: KEN SWANSON
(517) 322-2710

Actual:
878 ft.

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

D13
South
1/2-1
2956 ft.

ECONO TRAVEL LLC
7300 MILLETT HWY
LANSING, MI 48917

RCRIS-SQG **1007098398**
MIK514121649

Site 1 of 4 in cluster D

Relative:
Higher

Actual:
877 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

ECONO TRAVEL LLC (Continued)

EDR ID Number
EPA ID Number

1007098398

RCRIS:

Owner: ECONO TRAVEL LLC
EPA ID: MIK514121649

Contact: MILTON EMBS
(517) 322-3400

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

D14
South
1/2-1
2956 ft.

7300 MILLETT HIGHWAY
7300 MILLETT HIGHWAY
LANSING, MI 48917

BEA S105094953
N/A

Site 2 of 4 in cluster D

Relative:
Higher

BEA:

Actual:
877 ft.

Petition Disclosure: 0
BEA Number: 564
District: Lansing
Date Received: 09/07/2001
Submitter Name: Mr. Milton Embs
Petition Determination: No Request
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: leinbaca
Division Assigned: Storage Tank Division
Secondary Address: Not reported

D15
South
1/2-1
2956 ft.

SHREVE STEEL
7300 MILLETT HWY
LANSING, MI 48917

UST U003867806
N/A

Site 3 of 4 in cluster D

Relative:
Higher

UST:

Actual:
877 ft.

Facility ID: 00021063
Tank ID: 1
Owner: Shreve Steel
Owner Country: USA
Owner Contact: Not reported
Owner Address: 7300 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 243-6519
Product: Gasoline
Capacity: 5000
Tank Status: Removed from Ground
Remove Date: Nov 16 1995
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: Not reported
Contact Phone: () -
Impressed Device: No
Install Date: Oct 15 1966
Release Detection:

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SHREVE STEEL (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003867806

Tank: Not reported
Pipe: Not reported

D16
South
1/2-1
2956 ft.

SHREVE STEEL
7300 MILLETT HWY
LANSING, MI 48917

LUST S105220374
N/A

Site 4 of 4 in cluster D

Relative:
Higher

LUST:

Actual:
877 ft.

Facility ID: 00021063
Release Number: Closed
Release Date: May 7 1990
District: Lansing District Office
Closed Date: Oct 10 1990
Owner Contact : Not reported
Owner Name : Shreve Steel
Owner Address : 7300 Millett Hwy
Lansing, MI 48917
Country : USA
Owner Phone : (517) 243-6519
Contact : Not reported
Facility Phone : () -
Leak Number: C-1373-85

Facility ID: 00021063
Release Number: Open
Release Date: Jun 11 2001
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Shreve Steel
Owner Address : 7300 Millett Hwy
Lansing, MI 48917
Country : USA
Owner Phone : (517) 243-6519
Contact : Not reported
Facility Phone : () -
Leak Number: C-0383-01

17
SSE
1/2-1
3085 ft.

MILLETT HIGHWAY ASH STORAGE
7101 MILLETT HWY
LANSING, MI 48917

UST U003102195
N/A

Relative:
Lower

UST:

Actual:
870 ft.

Facility ID: 00002628
Tank ID: 1
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: Po Box 13007
Lansing, MI 48917
Owner Phone: 517-702-6000
Product: Diesel
Capacity: 12000
Tank Status: Temporarily out of Use
Remove Date: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MILLETT HIGHWAY ASH STORAGE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003102195

Constr Material: Cathodically Protected Steel, Epoxy Coated Steel
Piping Material: Cathodically Protected
Piping Type: Suction: No Valve At Tank
Contact: Robert Roller
Contact Phone: 517-332-0910
Impressed Device: Yes
Install Date: May 8 1985
Release Detection:
Tank: Automatic Tank Gauging, Groundwater Monitoring, Inventory Control, Manual Tank Gauging
Pipe: Automatic Line Leak Detectors

18
ESE
1/2-1
3531 ft.

NATIONWIDE TRUCK BROKERS - LANSING
6601 SLOAN HWY
LANSING, MI 48917

RCRIS-SQG
FINDS
1004725334
MIR000040931

Relative:
Lower

RCRIS:
Owner: NATIONWIDE TRUCK BROKERS
EPA ID: MIR000040931

Actual:
870 ft.

Contact: RENEE HOEKSTRA
(616) 455-4444

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

19
SE
1/2-1
3547 ft.

CLARK FOUNDATION
6851 MILLETT HWY
LANSING, MI 48917

LUST
UST
U000252653
N/A

Relative:
Lower

LUST:
Facility ID: 00004235
Release Number: Open
Release Date: Jan 5 1999
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Clark Foundation
Owner Address : 6851 Millett Hwy
Lansing, MI 48917
Country : USA
Owner Phone : (517) 322-0370
Contact : VERN VAN BUREN
Facility Phone : (517) 322-0370
Leak Number: C-0013-99

Actual:
868 ft.

UST:
Facility ID: 00004235
Tank ID: 1
Owner: Clark Foundation
Owner Country: USA
Owner Contact: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CLARK FOUNDATION (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000252653

Owner Address: 6851 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 322-0370
Product: Gasoline
Capacity: 4000
Tank Status: Removed from Ground
Remove Date: Jan 1 1999
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: VERN VAN BUREN
Contact Phone: (517) 322-0370
Impressed Device: No
Install Date: Jan 1 1975
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004235
Tank ID: 2
Owner: Clark Foundation
Owner Country: USA
Owner Contact: Not reported
Owner Address: 6851 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 322-0370
Product: Gasoline
Capacity: 4000
Tank Status: Removed from Ground
Remove Date: Jan 1 1999
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: VERN VAN BUREN
Contact Phone: (517) 322-0370
Impressed Device: No
Install Date: Jan 1 1975
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004235
Tank ID: 3
Owner: Clark Foundation
Owner Country: USA
Owner Contact: Not reported
Owner Address: 6851 Millett Hwy
Lansing, MI 48917
Owner Phone: (517) 322-0370
Product: Diesel
Capacity: 2000
Tank Status: Removed from Ground
Remove Date: Jan 1 1999
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: VERN VAN BUREN

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CLARK FOUNDATION (Continued)

EDR ID Number
EPA ID Number

U000252653

Contact Phone: (517) 322-0370
Impressed Device: No
Install Date: Jan 1 1975
Release Detection:
Tank: Not reported
Pipe: Not reported

**20
ESE
1/2-1
3810 ft.**

**KENNEDY MASONRY (E)
6554 SLOAN
LANSING, MI 48917**

**RCRIS-SQG 1007097202
MIK322389479**

**Relative:
Lower**

RCRIS:
Contact: JIM KENNEDY
(517) 322-9310

**Actual:
870 ft.**

Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

**21
SE
1/2-1
3895 ft.**

**CONSOLIDATED FREIGHTWAYS
6726 MILLETT HWY
LANSING, MI 48917**

**LUST U003080613
UST N/A**

**Relative:
Higher**

LUST:
Facility ID: 00000028
Release Number: Open
Release Date: Mar 12 1996
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Consolidated Freightways
Owner Address : PO Box 3010
Menlo Park, CA 94026
Country : USA
Owner Phone : (650) 326-1700
Contact : JOHN KAMINSKI
Facility Phone : (517) 322-0606
Leak Number: C-0141-96

**Actual:
873 ft.**

UST:
Facility ID: 00000028
Tank ID: 1
Owner: Consolidated Freightways
Owner Country: USA
Owner Contact: Not reported
Owner Address: PO Box 3010
Menlo Park, CA 94026
Owner Phone: (650) 326-1700
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Oct 14 1997
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Pressure
Contact: JOHN KAMINSKI

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSOLIDATED FREIGHTWAYS (Continued)

U003080613

Contact Phone: (517) 322-0606
Impressed Device: No
Install Date: Feb 26 1966
Release Detection:
Tank: Not reported
Pipe: Not reported

E22
East
1/2-1
4119 ft.

MEIJER DC-93
2901 CREYTS RD
LANSING, MI 49544

LUST **U003082475**
UST **N/A**

Site 1 of 2 in cluster E

Relative:
Lower

LUST:

Actual:
870 ft.

Facility ID: 00017059
Release Number: Closed
Release Date: May 5 1994
District: Lansing District Office
Closed Date: Jan 13 1995
Owner Contact : Lyle Livasy
Owner Name : Meijer
Owner Address : 2929 Walker Ave Nw
Grand Rapids, MI 49544
Country : USA
Owner Phone : (616) 453-6711
Contact : JOHN WAKEMAN
Facility Phone : (517) 322-7074
Leak Number: C-0479-94

UST:

Facility ID: 00017059
Tank ID: 1
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: #2 FUEL OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: May 1 1994
Constr Material: Asphalt Coated or Bare Steel, Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074
Impressed Device: No
Install Date: Apr 16 1978
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00017059
Tank ID: 2
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MEIJER DC-93 (Continued)

U003082475

Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: #2 FUEL OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: May 1 1994
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074
Impressed Device: No
Install Date: Apr 16 1978
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00017059
Tank ID: 3
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: #2 FUEL OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: May 1 1994
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074
Impressed Device: No
Install Date: Apr 16 1978
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00017059
Tank ID: 4
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: #2 FUEL OIL
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: May 1 1994
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC-93 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082475

Impressed Device: No
Install Date: Apr 16 1978
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00017059
Tank ID: 5
Owner: Not reported
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: FLOOR WASH DOWN
Capacity: 15000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Fiberglass Reinforced plastic
Piping Material: Fiberglass reinforced plastic
Piping Type: Not reported
Contact: JOHN WAKEMAN
Contact Phone: (517) 322-7074
Impressed Device: No
Install Date: Apr 16 1986
Release Detection:
Tank: Not reported
Pipe: Not reported

E23 2930 S. CREYTS ROAD
East 2930 S. CREYTS ROAD
1/2-1 DELTA TOWNSHIP, MI
4126 ft.

BEA S105094922
N/A

Relative:
Lower

Site 2 of 2 in cluster E

Actual:
870 ft.

BEA:
Petition Disclosure: 1
BEA Number: 409
District: Lansing
Date Received: 12/16/1999
Submitter Name: Doty Development #3
Petition Determination: Affirmed
Category: No Hazardous Substance(s)
Determination 20107A: Pending
Reviewer: temp ppm
Division Assigned: Environmental Response Division
Secondary Address: Not reported

F24 COCA-COLA BOTTLING CO OF MI
ESE 3300 S CREYTS RD
1/2-1 LANSING, MI 48917
4872 ft.

LUST U003082582
UST N/A

Relative:
Lower

Site 1 of 3 in cluster F

Actual:
870 ft.

LUST:
Facility ID: 00018777
Release Number: Closed
Release Date: Sep 1 1987

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

COCA-COLA BOTTLING CO OF MI (Continued)

U003082582

District: Lansing District Office
Closed Date: Sep 21 1981
Owner Contact : Not reported
Owner Name : Coca-Cola Ent
Owner Address : 9770 Patuxent Woods Dr
 Columbia, MD 21046
Country : USA
Owner Phone : (410) 290-3033
Contact : FORREST LEASURE
Facility Phone : (517) 322-2600
Leak Number: C-0165-85

Facility ID: 00018777
Release Number: Open
Release Date: Jan 31 1990
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Coca-Cola Ent
Owner Address : 9770 Patuxent Woods Dr
 Columbia, MD 21046
Country : USA
Owner Phone : (410) 290-3033
Contact : FORREST LEASURE
Facility Phone : (517) 322-2600
Leak Number: C-0205-90

UST:

Facility ID: 00018777
Tank ID: 1
Owner: Coca-Cola Ent
Owner Country: USA
Owner Contact: Not reported
Owner Address: 9770 Patuxent Woods Dr
 Columbia, MD 21046
Owner Phone: (410) 290-3033
Product: Diesel
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Jun 17 1991
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: FORREST LEASURE
Contact Phone: (517) 322-2600
Impressed Device: No
Install Date: Apr 22 1979
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00018777
Tank ID: 2
Owner: Coca-Cola Ent
Owner Country: USA
Owner Contact: Not reported
Owner Address: 9770 Patuxent Woods Dr
 Columbia, MD 21046

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

COCA-COLA BOTTLING CO OF MI (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082582

Owner Phone: (410) 290-3033
Product: Diesel
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Jun 17 1991
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: FORREST LEASURE
Contact Phone: (517) 322-2600
Impressed Device: No
Install Date: Apr 22 1979
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00018777
Tank ID: 3
Owner: Coca-Cola Ent
Owner Country: USA
Owner Contact: Not reported
Owner Address: 9770 Patuxent Woods Dr
Columbia, MD 21046
Owner Phone: (410) 290-3033
Product: Gasoline
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Jun 17 1991
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: FORREST LEASURE
Contact Phone: (517) 322-2600
Impressed Device: No
Install Date: Apr 22 1979
Release Detection:
Tank: Not reported
Pipe: Not reported

F25
ESE
1/2-1
4872 ft.

MEIJER DC 86
3301 S CREYTS RD
LANSING, MI 48917

LUST U003082168
UST N/A

Site 2 of 3 in cluster F

Relative:
Lower

LUST:

Actual:
870 ft.

Facility ID: 00011554
Release Number: Closed
Release Date: Apr 26 1990
District: Lansing District Office
Closed Date: Nov 16 1994
Owner Contact: Not reported
Owner Name: Meijer Distribution Inc
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Country: USA
Owner Phone: (616) 453-6711
Contact: LYLE LIVASY
Facility Phone: (616) 361-4136

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Leak Number: C-0753-90

Facility ID: 00011554
Release Number: Open
Release Date: Sep 29 1989
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Meijer Distribution Inc
Owner Address : 2929 Walker Ave NW
Grand Rapids, MI 49544
Country : USA
Owner Phone : (616) 453-6711
Contact : LYLE LIVASY
Facility Phone : (616) 361-4136
Leak Number: C-0611-89

Facility ID: 00011554
Release Number: Open
Release Date: Mar 4 1991
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Meijer Distribution Inc
Owner Address : 2929 Walker Ave NW
Grand Rapids, MI 49544
Country : USA
Owner Phone : (616) 453-6711
Contact : LYLE LIVASY
Facility Phone : (616) 361-4136
Leak Number: C-0320-91

UST:

Facility ID: 00011554
Tank ID: 1
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Gasoline
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported
Facility ID: 00011554
Tank ID: 2

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 3
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 4
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MEIJER DC 86 (Continued)

U003082168

Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554
Tank ID: 5
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
 Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554
Tank ID: 6
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
 Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Tank ID: 7
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 8
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 9
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Jul 1 1992

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MEIJER DC 86 (Continued)

U003082168

Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554
Tank ID: 10
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
 Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00011554
Tank ID: 11
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
 Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MEIJER DC 86 (Continued)

U003082168

Facility ID: 00011554
Tank ID: 12
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 13
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000
Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 14
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 20000

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Tank Status: Removed from Ground
Remove Date: Jul 1 1987
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No

Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00011554
Tank ID: 15
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544

Owner Phone: (616) 453-6711
Product: Gasoline, Diesel
Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel, Double Walled
Piping Material: Double Walled, Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No

Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inventory Control
Pipe: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled Piping

Facility ID: 00011554
Tank ID: 16
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544

Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel, Double Walled
Piping Material: Double Walled, Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device: No

Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inventory Control

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003082168

Pipe: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping

Facility ID: 00011554
Tank ID: 17
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel,Double Walled
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device:No
Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inventory Control
Pipe: Interstitial Monitoring Double Walled Piping,Line Tightness Testing

Facility ID: 00011554
Tank ID: 18
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel
Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel,Double Walled
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device:No
Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inventory Control
Pipe: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping

Facility ID: 00011554
Tank ID: 19
Owner: Not reported
Owner Country: USA
Owner Contact: Not reported
Owner Address: 2929 Walker Ave NW
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Diesel

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC 86 (Continued)

EDR ID Number
EPA ID Number

U003082168

Capacity: 12000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Cathodically Protected Steel,Double Walled
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Contact: LYLE LIVASY
Contact Phone: (616) 361-4136
Impressed Device:No
Install Date: Jul 1 1992
Release Detection:
Tank: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inventory Control
Pipe: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping

F26
ESE
1/2-1
4880 ft.

MEIJER DC-512
3307 S CREYTS RD
LANSING, MI 49544

LUST U002301053
UST N/A

Site 3 of 3 in cluster F

Relative:
Lower

LUST:

Facility ID: 00017056
Release Number: Closed
Release Date: Jun 7 1994
District: Lansing District Office
Closed Date: Nov 16 1994
Owner Contact : Lyle Livasy
Owner Name : Meijer
Owner Address : 2929 Walker Ave Nw
Grand Rapids, MI 49544
Country : USA
Owner Phone : (616) 453-6711
Contact : MR LYLE LIVASY
Facility Phone : (616) 453-6711
Leak Number: C-0566-94

UST:

Facility ID: 00017056
Tank ID: 1
Owner: Meijer
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: ANTI FREEZE
Capacity: 1500
Tank Status: Removed from Ground
Remove Date: Jun 6 1994
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: MR LYLE LIVASY
Contact Phone: (616) 453-6711
Impressed Device:No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Actual:
870 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MEIJER DC-512 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301053

Facility ID: 00017056
Tank ID: 2
Owner: Meijer
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: LUBE OIL
Capacity: 8000
Tank Status: Removed from Ground
Remove Date: Jun 6 1994
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: MR LYLE LIVASY
Contact Phone: (616) 453-6711
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00017056
Tank ID: 3
Owner: Meijer
Owner Country: USA
Owner Contact: Lyle Livasy
Owner Address: 2929 Walker Ave Nw
Grand Rapids, MI 49544
Owner Phone: (616) 453-6711
Product: Used Oil
Capacity: 1500
Tank Status: Removed from Ground
Remove Date: Jun 6 1994
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: MR LYLE LIVASY
Contact Phone: (616) 453-6711
Impressed Device: No
Install Date: Apr 16 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

27
SE
1/2-1
5115 ft.

Relative:
Lower

Actual:
870 ft.

GENERAL CAR AND TRUCK LEASING SYSTEM INC
3520 S CREYTS
LANSING, MI 48917

RCRIS-SQG 1000828706
FINDS MID985657782
LUST

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GENERAL CAR AND TRUCK LEASING SYSTEM INC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000828706

RCRIS:

Owner: GENERAL CAR AND TRUCK LEASING SYSTEM INC
EPA ID: MID985657782

Contact: JOHN KEILEN
(517) 322-9900

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

LUST:

Facility ID: 00008495
Release Number: Open
Release Date: Jan 25 1993
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : OWNER ADDRESS UNKNOWN
Owner Address : Not Recorded
UNKNOWN, MI 00000

Country : USA
Owner Phone : () -
Contact : ROYAL L GRIFFES
Facility Phone : (517) 322-9900
Leak Number: C-0141-93

Facility ID: 00008495
Release Number: Open
Release Date: May 10 1991
District: Lansing District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : OWNER ADDRESS UNKNOWN
Owner Address : Not Recorded
UNKNOWN, MI 00000

Country : USA
Owner Phone : () -
Contact : ROYAL L GRIFFES
Facility Phone : (517) 322-9900
Leak Number: C-0895-91

**28
SE
> 1
6720 ft.**

**REITH-RILEY
4150 CREYTS ROAD
LANSING, MI 48917**

**SHWS S104910668
BEA N/A**

**Relative:
Higher**

SHWS:

Facility ID: 23000180
Facility Status: Inactive - no actions taken to address contamination
Source: Automotive Repair Shops
Pollutant(s): Phenanthrene; TCE; VC
SAM Score: 36
SAM Score Date: 02/10/2004
Township: 4N

**Actual:
879 ft.**

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REITH-RILEY (Continued)

S104910668

Range: 3W
Section: 34
Quarter: NW
Quarter/Quarter: SE

BEA:

Petition Disclosure: 0
BEA Number: 246
District: Lansing
Date Received: 05/08/1998
Submitter Name: Ellison & Fish, LLC
Petition Determination: No Request
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Environmental Response Division
Secondary Address: Not reported

Petition Disclosure: 0
BEA Number: 247
District: Lansing
Date Received: 05/08/1998
Submitter Name: Advanced Paving Co.
Petition Determination: No Request
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Environmental Response Division
Secondary Address: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DELTA TOWNSHIP	1007264517	MIDOT BRIDGE (S03-23081)	I-496 RAMP UNDER CANAL ROAD	48917	RCRIS-SQG
DELTA TOWNSHIP	1007264533	MIDOT BRIDGE (S04-23081)	I-496 UNDER CANAL ROAD	48917	RCRIS-SQG
DELTA TWP/LANSING	1004725955	MI DEPT/TRANSPORTATION BRIDGE S02 &S02-4	I-96/M-43 (S02 AND S02-4 OF 23	48917	RCRIS-SQG, FINDS
DELTA TWP/LANSING	1004725950	MI DEPT/TRANSPORTATION BRIDGE S16-23063	MILLETT RD/I-69 S16-23063	48917	RCRIS-SQG, FINDS
DELTA TWP/LANSING	1004725956	MI DEPT/TRANSPORTATION BRIDGE S06-23152	MILLETT RD/I-96 (S06-23152)	48917	RCRIS-SQG, FINDS
GRAND LEDGE	S100069598	HAMPTONS DISPOSAL	CLINTONIA HWY	48837	HIST LF
GRAND LEDGE	U003833360	DAN NEUENSCHWANDER FARM	1161 GRAND LEDGE HWY	48837	UST
GRAND LEDGE	1003871041	GRAND LEDGE CLAY PROD PIT	3629 W JEFFERSON	48837	SHWS, CERC-NFRAP
GRAND LEDGE	S105143984	PARSONS CHEMICAL WORKS, INC.	3562 W. JEFFERSON STREET	48837	SHWS
LANSING	91222916	I-96 & I-496 DELTA TOWNSHIP	I-96 & I-496 DELTA TOWNSHIP		ERNS
LANSING	1005832172	GENERAL MOTORS CORP - DELTA ASSEMBLY PLT	I-69 AND DAVIS ROAD	48917	FINDS
LANSING	S103595390	BOC PLANT#3-FRMR PLATING AREA	BLK 'TWEEN WILLOW / SAGINAW HWY	48917	SHWS
LANSING	1000126755	GMC OLDSMOBILE DIV PLT 5	CANAL RD	48917	RCRIS-SQG, FINDS
LANSING	1001961045	MI DEPT/TRANSPORTATION BRIDGES S01,S17-3	I-496/US-27 RAMP	48917	RCRIS-SQG, FINDS
LANSING	8864728	601 ISLAND AVE POWER PLANT	601 ISLAND AVE POWER PLANT		ERNS
LANSING	93325604	LANSING ST AND SAGINAW ST	LANSING ST AND SAGINAW ST		ERNS
LANSING	1007101792	BRUCE CARTAGE INC	56704 MILLET HWY	48917	RCRIS-SQG
LANSING	1007099585	VOORHORST TRUCKING (E)	I-496 OFF RAMP & DREYTS RD	48917	RCRIS-SQG
LANSING	S104910061	VACANT PARCEL ON M-43	W. SAGINAW HWY.		BEA
LANSING	S104910666	LANSING CONNECTING RAILROAD ROW (FORMER)	SECTIONS 15 / 22, T4N, R2W		BEA
LANSING	1000466145	SHERATON INN LANSING FUJI	555 TAXTER RD	48917	RCRIS-SQG, FINDS
LANSING	1007284055	LANSING MALL	5330 WISAGANAW	48917	FTTS INSP
LANSING	1007370999	LANSING BOARD OF WATER & LIGHT	5411 WISE ROAD	48917	RCRIS-SQG
YPSILANTI	S105965721	FORD RAWSONVILLE PLANT	TEXTILE / MC KEAN RD	48917	DEL SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

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: 04/27/04

Date Made Active at EDR: 05/21/04

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/04/04

Elapsed ASTM days: 17

Date of Last EDR Contact: 05/04/04

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 8

Telephone: 303-312-6774

EPA Region 4

Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 04/27/04

Date Made Active at EDR: 05/21/04

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/04/04

Elapsed ASTM days: 17

Date of Last EDR Contact: 05/04/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

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: 05/17/04

Date Made Active at EDR: 08/10/04

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/23/04

Elapsed ASTM days: 48

Date of Last EDR Contact: 06/23/04

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/17/04
Date Made Active at EDR: 08/10/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/23/04
Elapsed ASTM days: 48
Date of Last EDR Contact: 06/23/04

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/15/04
Date Made Active at EDR: 08/10/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/25/04
Elapsed ASTM days: 46
Date of Last EDR Contact: 06/07/04

RCRIS: Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS 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. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/04
Date Made Active at EDR: 07/20/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 06/23/04
Elapsed ASTM days: 27
Date of Last EDR Contact: 06/23/04

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/03
Date Made Active at EDR: 03/12/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/26/04
Elapsed ASTM days: 46
Date of Last EDR Contact: 07/26/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 06/22/04
Date of Next Scheduled EDR Contact: 09/13/04

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

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: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Source: EPA
Telephone: 703-416-0223

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: 04/08/04
Database Release Frequency: Annually

Date of Last EDR Contact: 07/07/04
Date of Next Scheduled EDR Contact: 10/04/04

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

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: 04/27/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/04/04
Date of Next Scheduled EDR Contact: 08/02/04

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

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: 04/08/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/06/04
Date of Next Scheduled EDR Contact: 10/04/04

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/17/04
Database Release Frequency: Annually

Date of Last EDR Contact: 04/20/04
Date of Next Scheduled EDR Contact: 07/19/04

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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: 04/19/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/06/04
Date of Next Scheduled EDR Contact: 10/04/04

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 03/05/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/30/04
Date of Next Scheduled EDR Contact: 09/27/04

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (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 receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/24/04
Date of Next Scheduled EDR Contact: 08/23/04

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/30/04
Database Release Frequency: Annually

Date of Last EDR Contact: 05/12/04
Date of Next Scheduled EDR Contact: 08/09/04

DOD: Department of Defense Sites

Source: USGS
Telephone: 703-692-8801

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: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/14/04
Date of Next Scheduled EDR Contact: 08/09/04

STORMWATER: Storm Water General Permits

Source: Environmental Protection Agency
Telephone: 202 564-0746

A listing of all facilities with Storm Water General Permits.

Date of Government Version: N/A
Database Release Frequency: Quarterly

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

INDIAN RESERV: Indian Reservations

Source: USGS
Telephone: 202-208-3710

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/14/04
Date of Next Scheduled EDR Contact: 08/09/04

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

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 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: 04/14/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/14/04
Date of Next Scheduled EDR Contact: 09/13/04

RMP: Risk Management Plans

Source: Environmental Protection Agency
Telephone: 202-564-8600

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Database Release Frequency: N/A

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285

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: 10/01/03
Database Release Frequency: Varies

Date of Last EDR Contact: 07/06/04
Date of Next Scheduled EDR Contact: 10/04/04

UMTRA: Uranium Mill Tailings Sites

Source: Department of Energy
Telephone: 505-845-0011

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. In 1978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: 04/22/04
Database Release Frequency: Varies

Date of Last EDR Contact: 06/21/04
Date of Next Scheduled EDR Contact: 09/20/04

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

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: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/07/04
Date of Next Scheduled EDR Contact: 09/06/04

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-566-0250

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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 06/22/04
Date of Next Scheduled EDR Contact: 09/20/04

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

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: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 06/07/04
Date of Next Scheduled EDR Contact: 09/06/04

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA
Telephone: 202-564-2501

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/21/04
Date of Next Scheduled EDR Contact: 09/20/04

SSTS: Section 7 Tracking Systems

Source: EPA
Telephone: 202-564-5008

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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 07/20/04
Date of Next Scheduled EDR Contact: 10/18/04

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501

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: 04/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/21/04
Date of Next Scheduled EDR Contact: 09/20/04

STATE OF MICHIGAN ASTM STANDARD RECORDS

SHWS: Contaminated Sites

Source: Department of Environmental Quality
Telephone: 517-373-9541

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: 05/24/04
Date Made Active at EDR: 07/01/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/25/04
Elapsed ASTM days: 37
Date of Last EDR Contact: 05/25/04

SWF/LF: Solid Waste Facilities Database

Source: Department of Environmental Quality
Telephone: 517-335-4035

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: 05/25/04
Date Made Active at EDR: 07/09/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/04/04
Elapsed ASTM days: 35
Date of Last EDR Contact: 07/26/04

LUST: Leaking Underground Storage Tank Sites

Source: Department of Environmental Quality
Telephone: 517-373-8168

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: 06/12/04
Date Made Active at EDR: 07/27/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 06/16/04
Elapsed ASTM days: 41
Date of Last EDR Contact: 06/16/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Underground Storage Tank Facility List

Source: Department of Environmental Quality

Telephone: 517-373-8168

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/12/04

Date Made Active at EDR: 07/22/04

Database Release Frequency: Annually

Date of Data Arrival at EDR: 06/16/04

Elapsed ASTM days: 36

Date of Last EDR Contact: 06/16/04

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

Source: DEPT. OF ENVIRONMENTAL QUALITY

Telephone: 517-373-9541

Date of Government Version: 06/16/04

Date Made Active at EDR: 07/27/04

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/16/04

Elapsed ASTM days: 41

Date of Last EDR Contact: 06/14/04

INDIAN UST: Underground Storage Tanks on Indian Land

Source: EPA Region 5

Telephone: 312-886-6136

Date of Government Version: 11/01/02

Date Made Active at EDR: 12/04/02

Database Release Frequency: Varies

Date of Data Arrival at EDR: 11/12/02

Elapsed ASTM days: 22

Date of Last EDR Contact: 06/15/04

HIST LF: Inactive Solid Waste Facilities

Source: Department of Environmental Quality

Telephone: 517-335-4034

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/97

Date Made Active at EDR: 03/06/03

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/28/03

Elapsed ASTM days: 6

Date of Last EDR Contact: 02/28/03

STATE OF MICHIGAN ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Tanks

Source: Department of Environmental Quality

Telephone: 517-373-8168

Registered Aboveground Storage Tanks.

Date of Government Version: 06/01/04

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/14/04

Date of Next Scheduled EDR Contact: 09/13/04

DEL SHWS: Delisted List of Contaminated Sites

Source: Department of Environmental Quality

Telephone: 517-373-9541

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support it's listing or the site no longer meets criteria specified in rules.

Date of Government Version: 05/26/04

Database Release Frequency: Varies

Date of Last EDR Contact: 05/24/04

Date of Next Scheduled EDR Contact: 08/23/04

PEAS: Pollution Emergency Alerting System

Source: Department of Environmental Quality

Telephone: 517-373-8427

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/02/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/07/04
Date of Next Scheduled EDR Contact: 10/04/04

DRYCLEANERS: Drycleaning Establishments
Source: Department of Environmental Quality
Telephone: 517-335-4586
A listing of drycleaning facilities in Michigan.

Date of Government Version: 06/08/04
Database Release Frequency: Varies

Date of Last EDR Contact: 05/21/04
Date of Next Scheduled EDR Contact: 08/16/04

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

BROWNFIELDS DATABASES

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

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 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: N/A
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GM LANSING PLANT #5-FORMER DELTA ENG
2901 SOUTH CANAL ROAD
LANSING, MI 48917

TARGET PROPERTY COORDINATES

Latitude (North):	42.705601 - 42° 42' 20.2"
Longitude (West):	84.657501 - 84° 39' 27.0"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	691852.1
UTM Y (Meters):	4730569.0
Elevation:	872 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

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. 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.

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).

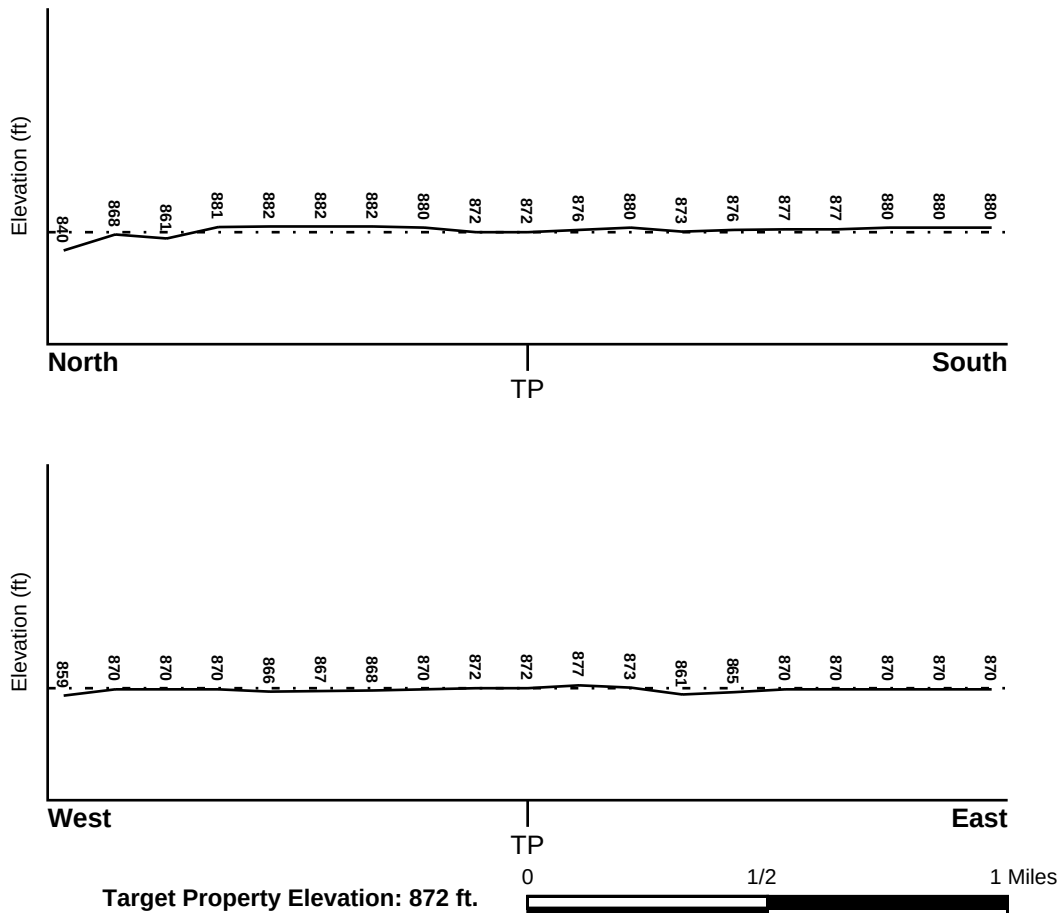
TOPOGRAPHIC INFORMATION

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

USGS Topographic Map: 42084-F6 DIMONDALE, MI
General Topographic Gradient: General South
Source: USGS 7.5 min quad index

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 Electronic Data</u>
EATON, MI	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
DIMONDALE	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 FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

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 (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CAPAC
Soil Surface Texture: loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
2	8 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
3	35 inches	60 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
muck

Surficial Soil Types: sandy loam
muck

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: stratified
clay loam
sand
muck

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

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

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

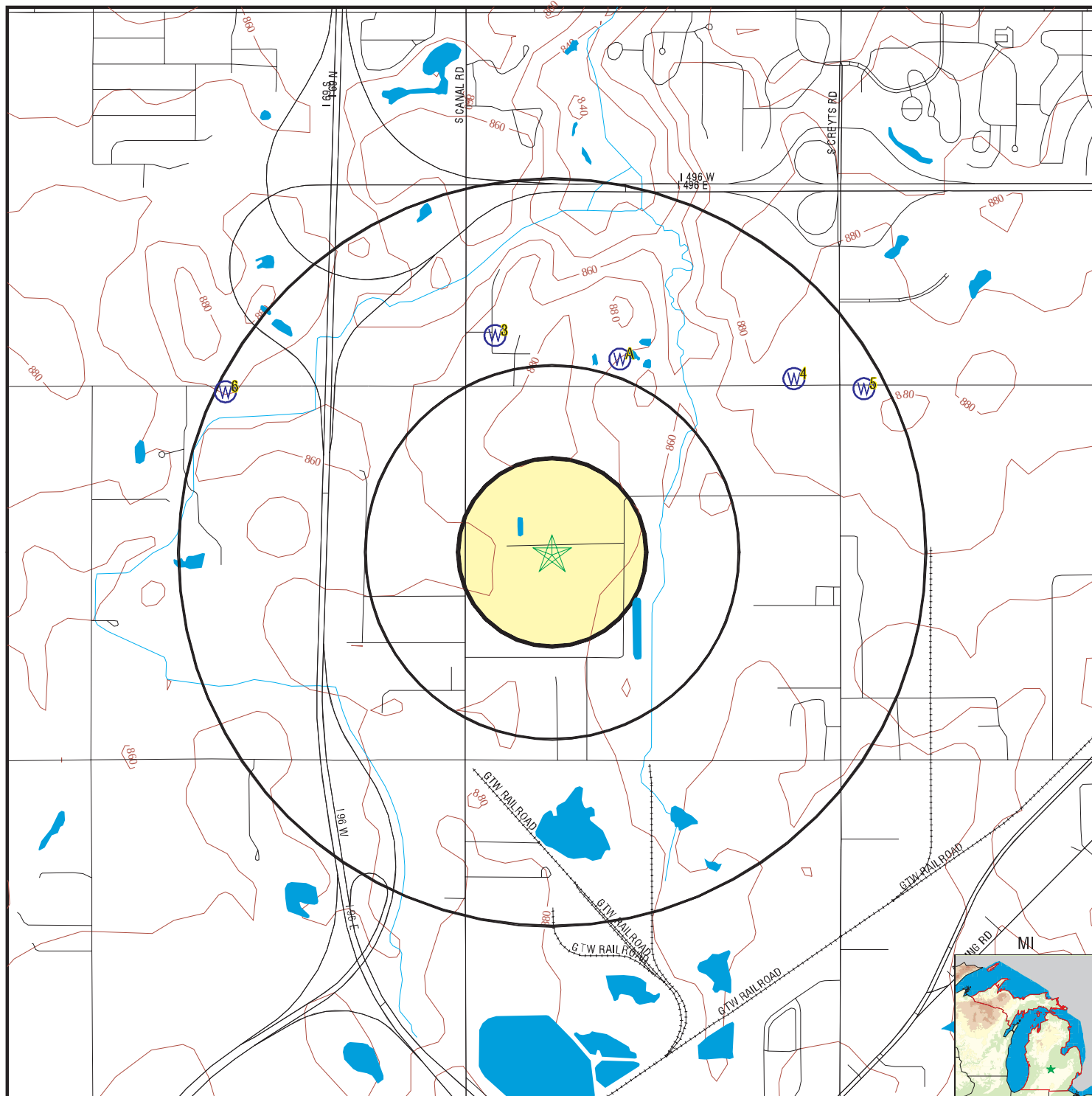
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	MIWS23000005964	1/2 - 1 Mile NNE
A2	MIWS23000005963	1/2 - 1 Mile NNE
3	MIWS23000005968	1/2 - 1 Mile NNW
4	MIWS23000005969	1/2 - 1 Mile NE
5	MIWS23000006054	1/2 - 1 Mile ENE
6	MIWS23000006059	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 1250829.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY: GM Lansing Plant #5-Former Delta Eng
ADDRESS: 2901 South Canal Road
CITY/STATE/ZIP: Lansing MI 48917
LAT/LONG: 42.7056 / 84.6575

CUSTOMER: EEC
CONTACT: Eric Kemmer
INQUIRY #: 1250829.2s
DATE: August 16, 2004 6:12 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
NNE
1/2 - 1 Mile
Lower

MI WELLS MIWS23000005964

Wellid:	23000005964	Permitno:	Not Reported
County:	Eaton	City:	LANSING
Name:	Not Reported	Well depth:	260
Const. Date:	10/24/1979 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	0	Latitude:	42.71283
Longitude:	-84.65417		

A2
NNE
1/2 - 1 Mile
Lower

MI WELLS MIWS23000005963

Wellid:	23000005963	Permitno:	Not Reported
County:	Eaton	City:	Not Reported
Name:	Not Reported	Well depth:	215
Const. Date:	06/21/1976 00:00:00	Well type:	Not Reported
Drill method:	Not Reported	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	30	Latitude:	42.71335
Longitude:	-84.6537		

3
NNW
1/2 - 1 Mile
Higher

MI WELLS MIWS23000005968

Wellid:	23000005968	Permitno:	Not Reported
County:	Eaton	City:	GRAND LEDGE
Name:	Not Reported	Well depth:	155
Const. Date:	11/15/1973 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	0	Latitude:	42.714
Longitude:	-84.6605		

4
NE
1/2 - 1 Mile
Higher

MI WELLS MIWS23000005969

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000005969	Permitno:	Not Reported
County:	Eaton	City:	LANSING
Name:	Not Reported	Well depth:	245
Const. Date:	09/30/1993 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	70	Latitude:	42.71233
Longitude:	-84.64479		

5 ENE 1/2 - 1 Mile Higher

MI WELLS

MIWS23000006054

Wellid:	23000006054	Permitno:	Not Reported
County:	Eaton	City:	LANSING
Name:	Not Reported	Well depth:	200
Const. Date:	05/11/1971 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	0	Pump time:	0
Pump capac:	0	Latitude:	42.71194
Longitude:	-84.64111		

6 WNW 1/2 - 1 Mile Higher

MI WELLS

MIWS23000006059

Wellid:	23000006059	Permitno:	Not Reported
County:	Eaton	City:	GRAND LEDGE
Name:	Not Reported	Well depth:	185
Const. Date:	08/09/1976 00:00:00	Well type:	Not Reported
Drill method:	Rotary-mud	Method Remarks:	Not Reported
Welluse:	Not Reported	Use Remarks:	Not Reported
Status:	Not Reported	Status Remarks:	Not Reported
Depth pump:	60	Pump time:	1
Pump capac:	30	Latitude:	42.71182
Longitude:	-84.67467		

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	48917	0	2/13/88	1.1	25.9%		
Random	48917	0	1/10/88	1.3	13.8%		
Random	48917	0	5/21/87	2.5	14.3%		
Random	48917	0	1/18/88	3.0	7.8%		
Random	48917	0	4/11/87	1.8	15.8%		
Random	48917	0	5/23/87	4.5	6.5%		
Random	48917	0	5/15/87	4.6	6.2%		

State Database: MI Radon

Radon Test Results

Zip	Less than sign	Pci/L
48917		1.30
48917		3.40
48917		2.40
48917		5.00
48917		4.60
48917		0.60
48917		3.20
48917		3.50
48917		2.10
48917		2.90
48917		5.80
48917		4.40
48917		25.80
48917		26.50
48917		7.90
48917		9.60
48917		3.10
48917		2.30
48917		2.80
48917		0.50
48917		3.10
48917	<	0.30
48917		0.50
48917		2.20
48917		1.90
48917		5.70
48917		4.60
48917		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	1.50
48917	3.40
48917	1.80
48917	2.70
48917	4.80
48917	1.10
48917	0.90
48917	0.90
48917	3.50
48917	10.70
48917	2.80
48917	1.40
48917	2.00
48917	2.10
48917	1.20
48917	2.40
48917	2.00
48917	2.20
48917	1.80
48917	5.90
48917	2.80
48917	5.50
48917	8.40
48917	3.20
48917	2.40
48917	2.60
48917	1.00
48917	6.30
48917	1.30
48917	3.20
48917	3.10
48917	2.20
48917	0.60
48917	1.40
48917	2.60
48917	1.40
48917	2.20
48917	3.20
48917	2.20
48917	4.50
48917	1.00
48917	5.10
48917	4.60
48917	8.40
48917	0.80
48917	0.30
48917	2.80
48917	1.70
48917	2.10
48917	5.50
48917	1.30
48917	4.40
48917	3.40
48917	0.90
48917	2.20
48917	1.90
48917	

<

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	<	0.30
48917		1.30
48917		5.60
48917		2.70
48917		4.90
48917		3.10
48917		2.40
48917	<	0.20
48917	<	0.20
48917		0.50
48917		1.30
48917		6.80
48917	<	0.30
48917		2.70
48917		3.40
48917		2.90
48917		2.50
48917		1.30
48917		1.60
48917		2.40
48917		2.90
48917		1.50
48917		2.30
48917		3.40
48917		6.40
48917		4.40
48917		3.90
48917		4.40
48917		2.70
48917		3.60
48917		2.00
48917		6.30
48917		1.40
48917		0.50
48917		7.20
48917		5.80
48917		5.70
48917		9.10
48917		0.90
48917		7.60
48917		3.40
48917		3.40
48917		2.70
48917		4.10

Federal EPA Radon Zone for EATON 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.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal Area Radon Information for Zip Code: 48917

Number of sites tested: 5

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	2.240 pCi/L	80%	20%	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. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

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 from the U.S. Fish and Wildlife Service.

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.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality, Drinking Water and Radiological Protection Division
Telephone: 517-335-9218

Michigan Oil and Gas Wells

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

RADON

State Database: MI Radon

Source: Department of Environmental Quality
Telephone: 517-335-9551
Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality
Telephone: 517-335-8037
These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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

APPENDIX E

Historical Information



EDR™ Environmental
Data Resources Inc

The EDR-City Directory *Abstract*

GM Lansing Plant #5-Former Del
2901 South Canal Road
Lansing, MI 48917

August 20, 2004

Inquiry Number: 1250829-7

The Standard In Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.

City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources*. *Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-00, Section 7.3.2, page 12.)

EDR's City Directory Abstract includes a search and abstract of available city directory data.

City Directories

City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1527-00 specifies that a *"review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice."* (ASTM E 1527-00, Section 7.3.2.1, page 12.)

NAICS (North American Industry Classification System) Codes

NAICS is a unique, all-new system for classifying business establishments. Adopted in 1997 to replace the prior Standard Industry Classification (SIC) system, it is the system used by the statistical agencies of the United States. It is the first economic classification system to be constructed based on a single economic concept. To learn more about the background, the development and difference between NAICS and SIC, visit the following Census website: <http://www.census.gov/epcd/www/naicsdev.htm>.

Please call EDR Nationwide Customer Service at
1-800-352-0050 (8am-8pm EST)
with questions or comments about your report.
Thank you for your business!

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4. SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1902 through 2003. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources:
City Directories Aug 20, 2004

Target Property:
2901 South Canal Road
Lansing, MI 48917

<u>PUR ID</u>	<u>Year</u>	<u>Uses</u>	<u>NAICS</u>	<u>Source</u>
--	1902	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
--	1906	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
--	1911	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
--	1916	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
--	1921	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
--	1926	Street not listed in research source.	N/A	McKinley-Rynlds City Directory
--	1931	Street not listed in research source.	N/A	McKinley-Rynlds City Directory
--	1936	Street not listed in research source.	N/A	Lansing Pub. City Directory
--	1941	Street not listed in research source.	N/A	Lansing Pub. City Directory
--	1948	Street not listed in research source.	N/A	Polk's City Directory
--	1953	Street not listed in research source.	N/A	Polk's City Directory
--	1958	Street not listed in research source.	N/A	Polk's City Directory
--	1963	Street not listed in research source.	N/A	Polk's City Directory
--	1968	Street not listed in research source.	N/A	Polk's City Directory
--	1973	Address not Listed in Research Source	N/A	Bresser's Cross Directory
--	1978	Address not Listed in Research Source	N/A	Bresser's Cross Directory
--	1983	General Motors Corp. Olds Division General Motors		Bresser's Cross Directory
--	1988	General Motors Corp. Olds Division General Motors		Bresser's Cross Directory
--	1993	General Motors Corp.		Bresser's Cross Directory
--	1998	General Motors Corp.		Bresser's Cross Directory
--	2003	General Motors Corp.		Bresser's Cross Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
Lansing, MI 48917

PUR ID

Year

Uses

NAICS

Source

1902	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
1906	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
1911	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
1916	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
1921	Street not listed in research source.	N/A	Chilson-McKnly. City Directory
1926	Street not listed in research source.	N/A	McKinley-Rynlds City Directory
1931	Street not listed in research source.	N/A	McKinley-Rynlds City Directory
1936	Street not listed in research source.	N/A	Lansing Pub. City Directory
1941	Street not listed in research source.	N/A	Lansing Pub. City Directory
1948	Street not listed in research source.	N/A	Polk''s City Directory
1953	Street not listed in research source.	N/A	Polk''s City Directory
1958	Street not listed in research source.	N/A	Polk''s City Directory
1963	Street not listed in research source.	N/A	Polk''s City Directory
1968	Street not listed in research source.	N/A	Polk''s City Directory
1973	<u>**SOUTH CANAL ROAD**</u> Residence (2800) Address Not Listed in Research Source (2810) Address Not Listed in Research Source (2815) Address Not Listed in Research Source (2816) Address Not Listed in Research Source (2851) Address Not Listed in Research Source (3008) Address Not Listed in Research Source (3010) -No Other Addresses Listed 2900-3000 Block South Canal Road		Bresser''s Cross Directory
1978	<u>**SOUTH CANAL ROAD**</u> Residence (2800) Central Dairy Supl. (2810) Address Not Listed in Research Source (2815) Address Not Listed in Research Source (2816)		Bresser''s Cross Directory

<u>PUR ID</u>	<u>Year</u>	<u>Uses</u>	<u>NAICS</u>	<u>Source</u>
	1978 (continued)	Address Not Listed in Research Source (2851) Address Not Listed in Research Source (3008) Canteen Service Co. (3010) -No Other Addresses Listed 2900-3000 Block South Canal Road		
	1983	<u>**SOUTH CANAL ROAD**</u> No Return (2800) Central Dairy Supl. (2810) Address Not Listed in Research Source (2815) Address Not Listed in Research Source (2816) Address Not Listed in Research Source (2851) Sherriff Goslin Co. (3008) Address Not Listed in Research Source (3010) -No Other Addresses Listed 2900-3000 Block South Canal Road		Bresser''s Cross Directory
	1988	<u>**SOUTH CANAL ROAD**</u> No Return (2800) Central Dairy Supl. (2810) Address Not Listed in Research Source (2815) Address Not Listed in Research Source (2816) Address Not Listed in Research Source (2851) Sherriff Goslin Co. (3008) Address Not Listed in Research Source (3010) -No Other Addresses Listed 2900-3000 Block South Canal Road		Bresser''s Cross Directory
	1993	<u>**SOUTH CANAL ROAD**</u> No Return (2800) Central Dairy Supl. (2810) Address Not Listed in Research Source (2815) Address Not Listed in Research Source (2816) Address Not Listed in Research Source (2851) Sherriff Goslin Co. (3008) Canteen Services (3010) -No Other Addresses Listed 2900-3000 Block South Canal Road		Bresser''s Cross Directory
	1998	<u>**SOUTH CANAL ROAD**</u> No Return (2800) Central Dry Supl. (2810) Residence (2815) Residence (2816) Residence (2851) Shrrff. Gsln. Roof (3008)		Bresser''s Cross Directory

<i>PUR ID</i>			
<u>Year</u>	<u>Uses</u>	<u>NAICS</u>	<u>Source</u>
1998 (continued)	Canteen Services (3010)		
	-No Other Addresses Listed 2900-3000 Block South Canal Road		
2003	<u>**SOUTH CANAL ROAD**</u>		Bresser''s Cross Directory
	No Return (2800)		
	Central Dry Supl. (2810)		
	Shrrff. Gsln. Roof (3008)		
	Heat & Frst. Asb. Wrk. (3010)		
	-No Other Addresses Listed 2800-3000 Block South Canal Road		



"Linking Technology with Tradition"

Sanborn® Map Report

Ship To: Eric Kemmer
EEC
455 E. Eisenhower
Ann Arbor, MI 48108

Order Date: 8/16/2004 **Completion Date:** 8/18/2004

Inquiry #: 1250829.3s

P.O. #: NA

Site Name: GM Lansing Plant #5-Former Delta Eng

Address: 2901 South Canal Road

City/State: Lansing, MI 48917

Customer Project: 64456

1232387DPM 734-668-1133

Cross Streets:

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

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APPENDIX F

**Previous
Environmental
Reports**

Previous Report References

1. NTH Consultants, Ltd., Report on Supplemental Subsurface Exploration, Ethylene Glycol Spill Area and North Tank Farm Area, GM B.O.C. Lansing Plant No. 5, Lansing, Michigan, prepared for McNamee Industrial Services; October 29, 1992.
2. Soil and Materials Engineers, Inc., Suspected Process Sewer Leak at the General Motors Powertrain Plant, 2901 South Canal Road, Lansing, Michigan, prepared for General Motors Corporation; August 5, 1999.
3. Barnes Engineering, LLC, Lead – Paint Identification Survey Report of the General Motors Corporation Delta Engine Plant, prepared for General Motors Corporation; March 5, 2001.
4. Barnes Engineering, LLC, Asbestos Identification Survey Report of the General Motors Corporation Delta Engine Plant, prepared for General Motors Corporation; March 8, 2001.
5. Haley & Aldrich, Inc., Phase I Environmental Site Assessment of the Delta Engine Plant, 2901 South Canal Road, Lansing, Michigan, prepared for General Motors Corporation; June 2001.
6. Blasland, Bouck & Lee, Inc., Underground Storage Tank Closure Report, Lansing Plant #5, 2901 South Canal Road, Lansing, Michigan, prepared for Environmental Corporate Remediation Company, Inc.; November 2001.
7. ATC Associates, Inc., Visual Asbestos Identification Survey of the General Motors Delphi Engine Plant, 2901 South Canal Road, Lansing, Michigan; May 2004.
8. Encore Environmental Consortium, LLC, review of various Michigan Department of Environmental Quality Hazardous Waste Permits Unit files (see reference list in Appendix F) for General Motors Corporation; September 8 & 10, 2004.

**MDEQ Hazardous Waste Permits Unit File Review References
September 8 & 10, 2004**

1. Resource Conservation and Recovery Act (RCRA) Part A Permit Application, prepared by GMC Oldsmobile Division Plant 5; November 14, 1980.
2. Revised Resource Conservation and Recovery Act Part A Permit Application, prepared by GMC Oldsmobile Division Plant 5; June 7, 1983.
3. Application for Part B Permit under the Resource Conservation and Recovery Act, as Amended, Permit Program, for Oldsmobile Division of General Motors Corporation, Lansing, Michigan Plant 5, prepared by Environmental Data, Inc.; September 1983.
4. Draft Permit and Statement of Basis for the GMC Oldsmobile-Plant 5, Lansing, Michigan, sent to the U.S. Environmental Protection Agency Technical Programs Section by the Michigan Department of Natural Resources Hazardous Waste Division; March 19, 1985.
5. Act 64 Closure Plan for the BOC Lansing Delta Engine Plant Hazardous Waste Storage Areas; December 1987.
6. Closure Certification Report for the Hazardous Waste Storage Areas at the Delta Engine Plant, prepared by WW Engineering & Science; December 1990.
7. Release from Financial Capability Requirements for Closure of Hazardous Waste Tank and Container Storage Units, GMC BOC Group, Delta Engine Plant, letter sent to General Motors Corporation Facilities Engineering by the Director of the Michigan Department of Natural Resources; February 19, 1991.
8. Preliminary Assessment / Visual Site Inspection, General Motors Corporation Buick-Oldsmobile-Cadillac Group, Lansing Automotive Division – Plant 5, Lansing, Michigan, prepared by PRC Environmental Management, Inc. for the U.S. Environmental Protection Agency Office of Waste Programs Enforcement; Undated.
9. Various other letters, memoranda and notes related to the Site.

APPENDIX G

Personnel Resumes

Brad A. Saunders, P.E.

Senior Engineer I/Manager

Project Experience

Environmental Management Experience

Serves as the client manager for a large industrial firm providing for a variety of environmental services. Acts as the primary point of contact with client corporate and plant personnel. Maintains overall responsibility for project management, budgeting, scheduling, internal staffing, subcontracting, and review of deliverables. Provides strong technical support and beneficial negotiating support on behalf of client, corresponding regularly with government agency representatives.

Managed the design, implementation, and successful registration of ISO 14001-conforming environmental management systems (EMSs) at two large automotive parts manufacturing facilities in Indiana and Michigan with respective employee counts of 550 and 250. During the design and implementation stages, trained facility Environmental Management Representatives on the requirements of the ISO 14001 standard and the effective operations and maintenance of an EMS.

Managed the design and implementation of an environmental information management system for a cement manufacturing facility in Michigan. This project involved environmental electronic and hardcopy file organization, environmental compliance calendar development, license acquisition and information population of an Internet-based interactive management system, and training of facility personnel for general use and task management.

Served as environmental coordinator for an international automotive supplier for three years. Responsibilities included environmental compliance and cost control, regulatory negotiations, and related plant activities at three facilities: two aluminum parts manufacturing facilities in Indiana and one plastic injection molding plant in Michigan. Additional responsibilities included oversight, assistance, and mentoring of environmental personnel at each location, and development of environmental training programs for approximately 1,000 employees. The facilities received no environmental Notice of Violations during this period.

Designed and implemented EMSs at two Indiana facilities through participation in an ISO 14001 pilot project program with the State of Indiana. Coordinated design activities

Mr. Saunders has more than 11 years of combined industrial and consulting experience in environmental engineering and management. He specializes in providing a broad range of facility environmental management, assessment, and compliance services for major industrial firms, with specific expertise in the automotive, metals, cement, and building products industries.

Education

- M.B.A. with Distinction, 1999, University of Michigan Business School
- B.S./Mechanical Engineering, 1992, Purdue University

Registrations

- Professional Engineer, Michigan, #6201050549
- Environmental Management Systems Auditor – Registrar Accreditation Board, #E052515

with The Environmental Law Institute, University of North Carolina, and Indiana Department of Environmental Management's Office of Pollution Prevention and Technical Assistance.

Served as environmental coordinator responsible for environmental activities and compliance with applicable environmental laws and regulations at an Indiana aluminum foundry for two years. Developed facility environmental management program and established staffing positions to consolidate in-plant environmental duties. Initiated waste segregation, pollution prevention, recycling, and cost minimization activities throughout the facility. The foundry received no environmental Notice of Violations during this period.

Environmental Auditing, Due Diligence, and Investigations

Manages a large volume, nationwide environmental site assessment and investigation program for a major industrial client to assist it in evaluating liability associated with potential financing and property transactions. Utilizes available resources within imminent time constraints to coordinate record searches, site visits, report production, and subsurface investigations.

Conducts Phase I environmental site assessments for several clients in accordance with ASTM Standard Practice E1527. Uses industry experience and broad knowledge of processes in combination with document search findings to develop sound recommendations regarding further investigative actions.

Manages, coordinates, and participates in the evaluation of Phase II Environmental Site Investigations at multiple sites to determine hazardous chemical concentrations and site classification status with respect to respective federal and/or state cleanup criteria.

Coordinates and conducts productive internal EMS audits on behalf of automotive industry clients in Indiana and Michigan. Conducts audits in accordance with ISO 14001, Guidelines for Environmental Auditing for Auditing of Environmental Management Systems. Served as lead auditor responsible for developing an audit plan and audit schedule, directing the audit team, delivering unbiased results, and making corrective action recommendations.

Represented two automotive industry clients in an EMS support role during the conduction of ISO 14001 Stage I and Stage II Registration audits and periodic Surveillance Audits by a third-party registrar. Successfully assisted both clients in obtaining ISO 14001 registrations, one of which was obtained during a witness audit by the Registrar Accreditation Board (RAB).

Served as support auditor during several ISO 14001 registration audits for an independent third-party registrar. Assisted lead auditor in performing complete environmental management system assessments to determine if auditees had designed, implemented, and maintained environmental management systems that conformed to the ISO 14001 standard.

Conducted a broad environmental due diligence assessment for the prospective buyer of electrical transmission assets from a large regulated electric utility in Michigan. Areas of emphasis included environmental management systems, PCB management, spill

prevention and planning, waste management, and remediation programs. Activities included detailed environmental personnel interviews, transmission substation site visits, and report preparation.

As an environmental coordinator in the automotive industry, assisted and participated in the performance of multiple corporate environmental facility compliance and due diligence audits in Indiana and Michigan.

Conducted third-party audits and made important approval decisions for the shipment of large volumes of hazardous wastes and used oils to prospective treatment, storage, and disposal (TSD) facilities in Indiana and Michigan.

Regulatory Compliance Experience

Over eleven years of solid working experience with assisting companies in complying with environmental regulations promulgated by EPA, state, and local agencies in accordance with the CAA, CWA, RCRA, SDWA, EPCRA, CERCLA, and TSCA. Also maintain familiarity with related OSHA and DOT regulations.

Prepares and maintains compliance calendars for several automotive industry clients that encompass the entire scope of applicable environmental requirements at their facilities. Calendars are created for frequent visual reference, and detail regulatory drivers, regulatory requirements, responsible individuals, development lead times, and deadlines.

Extensive experience in CAA permitting and air regulatory compliance assistance. Work performed includes the preparation of new source construction and/or Title V air permit applications in Indiana, Michigan, Ohio, Illinois, Wisconsin, Missouri, Maryland, New Jersey, and Nebraska. Experience at coordinating the detailed technical review of air permits and negotiating permit conditions with agency representatives. Provides related assistance in completing air regulatory assessments, developing air emissions inventories, coordinating compliance and optional stack testing events, and completing air emissions reports. Adept at developing electronic spreadsheets and documents that serve to streamline air regulatory compliance activities.

Developed and implemented complex, but user-friendly and technically sound, electronic monitoring, record keeping, and reporting systems to assist two automotive parts manufacturing facilities in complying with Indiana Part 70 (Title V) air permit conditions.

Prepared NPDES surface water discharge permit applications, prepared anti-degradation demonstrations as required for Great Lakes system dischargers, and negotiated discharge requirements for manufacturing facilities in Indiana and Michigan. Designed discharge system and holding ponds, specified treatment techniques, and established monitoring, record keeping, and reporting protocol for one facility. Provided assistance in the operation and maintenance of discharge systems, and preparation of periodic discharge monitoring reports.

Prepared NPDES storm water permit applications and Notice of Intent forms for facilities in Indiana, Michigan, Ohio, and North Carolina. Experience managing and conducting the development and revision of Storm Water Pollution Prevention Plans for facilities in the automotive, cement, and building products industries.

Prepared combined and individual contingency plans for several facilities, incorporating federal Oil Pollution Prevention requirements for Spill Pollution Control and Countermeasures Plans, RCRA requirements for large quantity generators, and/or related applicable state requirements in Indiana, Michigan, Ohio, and Pennsylvania.

Conducted a thorough file review and massive historical document search to identify areas of environmental concern for the preparation of a Document of Current Conditions (DOCC) report in completing the first stage of a Voluntary RCRA Corrective Action for a 600-acre site owned by a large automotive manufacturer in Michigan.

Prepared Category D Baseline Environmental Assessment (BEA) in accordance with Part 201 of the Michigan Natural Resources and Environmental Protection Act for a prospective property buyer planning to locate a new manufacturing operation on suspect property in Michigan.

Coordinated pre-closure sampling, analytical testing, work plans, and Michigan Part 201 Due Care monitoring for a site contaminated with chlorinated solvents.

For each of the past nine years, completed EPCRA Tier II chemical inventory reports and SARA Form R chemical release reports for automotive industry clients. For a large building products industry client, simultaneously prepared SARA Form R chemical release reports for a group of thirty applicable facilities.

Prepared hazardous waste permit applications, coordinated metals treatment study, and completed hazardous waste biennial reports for a gray iron and aluminum foundry in Indiana.

Managed and coordinated industrial hygiene studies, evaluated results against OSHA and NIOSH exposure limits, and coordinated ventilation system assessments for an automotive industry client in Indiana and a metals industry client in Michigan.

Identified applicable areas, developed entry forms, specified monitoring equipment, and implemented a confined space entry program in accordance with OSHA regulations contained in 29 CFR 1910 at a large aluminum parts manufacturing facility in Indiana.

Developed and implemented a Material Safety Data Sheet management program to assist a large aluminum parts manufacturing facility in maintaining current and obsolete documents in accordance with its Hazard Communications Program. Established a corresponding hazardous material tracking spreadsheet to assist the facility in expediently and accurately completing annual EPCRA reports.

Project Engineering Experience

Retained joint responsibility as a maintenance/project engineer for an aluminum foundry in Indiana for two years. Provided specifications and contracted/supervised various maintenance jobs for the facility during a series of multi-million dollar facility expansions and product launches. Related projects included casting machine and rotary turntable design and contract for build; reverse osmosis system specification/purchase and operation; natural gas piping distribution system design and installation; bulk nitrogen storage and distribution system specification and installation; exhaust stack and ventilation design and installation; and chemical storage area design and installation.

Professional Affiliations

- X Registrar Accreditation Board (RAB)
- X Engineering Society of Detroit (ESD)

Training

- X Auditing of Environmental Management Systems Course
- X Advanced EMS Auditors Course for Environmental Professionals
- X Habits of Highly Effective People - Covey Leadership Center
- X 40-Hour OSHA HAZWOPER and current 8-Hour Refresher Training
- X RCRA/DOT 8-Hour Training
- X OSHA Confined Space Entry and Rescue Procedures Training

Eric S. Kemmer

Senior Project Scientist II

Professional Experience

Mr. Kemmer has performed and managed environmental investigations for a wide variety of projects. His experience includes managing Brownfield redevelopment projects, managing and preparing Phase I and II environmental site assessments (ESAs), baseline environmental assessments (BEAs), and Section 7a compliance analysis (due care plans) for property transactions. Other areas of experience include investigative report preparation; interpretation of regulations; management of soil and groundwater investigations and underground storage tank investigations; site closure monitoring and landfill siting; air, water, and wetland permitting. He has also been involved in the planning and management of surface water and sediment sampling programs, and operation and maintenance of remedial systems.

Mr. Kemmer has more than 14 years of experience in the environmental consulting industry managing Brownfield projects and environmental site assessments. He also has experience interpreting state and federal regulations, managing soil and groundwater investigations, and underground storage tank investigations.

Education

- M.S./Resource Development/Environmental. 1989 Michigan State University
- B.S./Resource Development, 1983, Michigan State University

Project Experience

Brownfield Redevelopment Projects

Co-created a Brownfield redevelopment group for a former employer in Michigan. Assisted in the success of key relationships with the Michigan Department of Environmental Quality (MDEQ) and USEPA officials. Worked with local units of government (City of Petoskey, Traverse City, Grand Haven, Ypsilanti and others) and developers on MDEQ Site Reclamation Program (SRP), Waterfront Redevelopment, and Site Assessment Fund (SAF) grants, and the USEPA's Brownfield Assessment Pilot Project grant applications and implementation process. In addition, he has managed various redevelopment projects funded by MDEQ loans and local funding sources. Assisted with the redevelopment processes by organizing, coordinating, writing and submitting numerous successful grant and loan applications, competing Brownfield plans, establishing Brownfield Redevelopment Authorities (BRAs), Act 381 work plans, and associated response activities.

Environmental Site Assessments

Performed, reviewed and managed more than 500 Phase I ESAs related to property transactions of commercial, industrial, transportation, and utility facilities. Managed groups of up to 38 ESA projects simultaneously for Canadian National Railroad, including corridor studies up to 34 miles long. Experience includes CERCLA due diligence studies, ASTM E 1527-00 Phase I ESAs, ASTM E 1528-96 Property

Transaction Screens, Phase II ESAs, BEAs (all categories), and due care plans. Performed third party technical reviews of outside consultants, Phase I and II ESAs for various clients in order to assure quality control and to reduce clients' potential liabilities.

Wetland Management

Managed, performed, and reviewed preliminary wetland identification and delineation studies based on the presence of hydrophytic plants and hydric soils. Conducted data acquisition and prepared wetland permit applications according to MDEQ guidelines.

Surface Water Investigations

Managed an intensive field investigation of a munitions impacted area known as the Camp Grayling Air Artillery Range. Study sites encompassed an area of roughly 50 square miles. Responsibilities included the scheduling and coordination of stream gauging, surface-water and sediment sampling and analysis, spring delineation, vertical profiling of lakes, and an effluent stream reach investigation.

Leaking Underground Storage Tank Investigations

Managed and performed site assessments, records review, scheduling, project oversight, data review and interpretation, and report preparation for both site investigation and remediation activities.

Permitting

Conducted research, data acquisition and prepared reports required for submitting air, surface water, and wetland permit applications for a variety of commercial facilities and for remediation systems.

Quality Assurance Project Plans (QAPP)

Performed report preparation, data acquisition, and review of site-specific QAPPs according to USEPA guidelines.

ISO 14001 Implementation

Participated as a member of a team that developed, implemented, and achieved Certification for an ISO 14001 environmental management system.

Training

- 40-Hour OSHA Training
- 8-Hour OSHA Refresher Training
- 8-Hour OSHA Site Supervisor Training
- First Aid/CPR

Margaret A. Lindeman

Assistant Project Manager II

Professional Experience

Environmental Investigations

Conducts and coordinates Phase I environmental site assessments in accordance with ASTM Standard Practice E1527. Uses experience in combination with document search findings to develop sound recommendations regarding further investigative actions

Conducts and coordinates Phase II environmental site assessments at multiple sites to determine hazardous chemical concentrations and site classification status with respect to state cleanup criteria.

Coordinates and/or oversees the decommissioning and removal of underground structures to remove known or potential sources of pollution to soil and groundwater.

Sediment Experience

Assisted in preparing various reports for a sediment capping project including sampling work plans, quality assurance project plans, and post-capping monitoring reports.

Performed sediment removal calculations in support of a sediment removal alternatives project.

Compiled and summarized historical data for a pre-design investigation work plan.

Performed statistical analyses of sediment, water, and fish data. Created data summary tables and graphs. Provided quality control/quality assurance support for various reports and data summary tables.

Researched various sediment technologies and created table to present to client.

Prepared several technical memoranda summarizing data and/or research findings.

Litigation Support Experience

Engineer on a litigation support team representing a confidential client. Assessed the status and regulation-driven requirements for remedial actions at a large chemical manufacturing site in the US. Evaluated proposed remedial actions for risk mitigation, cost-effectiveness, technical innovation, and implementability.

Ms. Lindeman has nearly four years of consulting experience in environmental engineering, due diligence, and litigation support services.

Education

- B.S./Biology, 1996, St. Lawrence University
- M.S./Environmental Engineering Science, 2001, Syracuse University

Provided litigation support for a confidential law firm involved in a multimillion dollar insurance recovery effort for a large commercial company. Assisted attorneys and technical experts with technical interrogatory response preparation by reviewing documents.

Collegiate Experience

As a Research Assistant at Syracuse University, collected water and sediment samples in the Adirondack Mountains in New York State. Analyzed water sediment and soil samples for mercury concentrations and other chemical constituents. Conducted mass balance calculations for total and methyl mercury concentrations within the watershed.

Additional Environmental Experience

As an intern at Ol Ari Nyiro Wildlife Ranch in Lakipia, Kenya, assisted in constructing swales to divert erosion patterns, measured and recorded daily precipitation amounts, facilitated meetings with local people who are impacted by the ranch, reported concerns and requests of the people to the ranch management, and wrote up research findings in a comprehensive report.

Examined the biology and ecology of the Northern European Seas and participated in field research with the Netherlands Institute for Sea Research while studying in Denmark.

Professional Affiliations

- Engineering Society of Detroit (ESD)

Training

- 40-hour OHSA Training
- 8-hour OHSA Refresher Training

Publications/Presentations

Lindeman, M.A., M. Kalicin, C.T. Driscoll, C. Liuzzi, R. Newton, R. Munson, W. Kretser and J. Yavitt. 2000. The Fate and Cycling of Mercury in the Sunday Lake Watershed, Adirondacks, New York: A Preliminary Mass Balance. Poster Presentation. *Workshop on the Fate, Transport, and Transformation of Mercury in Aquatic and Terrestrial Environments*, West Palm Beach, FL.

Lindeman, M.A. 2001. The Cycling and Fate of Mercury in the Sunday Lake Watershed, Adirondack Region of New York. Masters Thesis. *Department of Civil and Environmental Engineering*, Syracuse University.