

# Quality Environmental Solutions

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## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**On a Site Located at:**

**Best Western Hotel  
5221 Bay City Road  
Midland, MI 48642**

**Prepared for:**

**Millennium Bank  
and  
U.S. Small Business Administration**

**QES Project # 17083**

**December 30, 2017**

# Quality Environmental Solutions

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December 30, 2017

Mr. Arpit Shah  
Millennium Bank  
2077 Miner Street  
Des Plaines, IL 60016

**RE: Phase I Environmental Site Assessments**  
**5221 Bay City Road, Midland, MI 48642**  
**QES Project # 17083**

Dear Mr. Shah:

Please find enclosed one (1) copy of the Phase I Environmental Site Assessment report prepared by Quality Environmental Solutions (QES) for the above referenced property.

We appreciate the opportunity to have been of service to you on this project. Should you have any questions concerning the information presented in this report, please do not hesitate to contact me directly at (630) 724-1517.

Sincerely,  
**Quality Environmental Solutions**



Jack Yan, P.E.  
President

Enclosures: Phase I Report

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## **1.0 SUMMARY**

Quality Environmental Solutions (QES) was retained to perform a Phase I Environmental Site Assessment of the property located at 5221 Bay City Road in Midland, Midland County, Michigan. The property has approximately 6.61 acres of land. The property is improved with four connected two-story brick and masonry buildings which formed a court yard in the middle. The property is currently operated as a Best Western Hotel. The building has approximately 102,554 square feet in size. The building consists of reception area, one hundred and fifty-one (151) guest rooms, a breakfast area, six (6) meeting rooms, a swimming pool, a laundry room and a mechanic room. Typical guest room has dry wall ceilings and carpet floor in the bedroom area. Each guest room is equipped with a zoned heating/AC unit.

The building was constructed in 1974. Currently, the property is owned by MPR Enterprises Inc. Darshana Hospitality LLC purchased the property in December 2008.

The site inspection was performed on December 23, 2017. During the site investigation, no visual spills were identified. There was no evidence of hazardous waste being generated, stored, or disposed of at the facility or on the subject property. No other conditions were identified, such as significant hazardous material storage; water or wastewater discharges; air emissions; or non-compliance issues.

The Phase I Environmental Site Assessment described in this report has been performed in accordance with the Standard Practice for Environmental Site Assessments as developed by the American Society for Testing & Materials (ASTM E 1527-13) and in accordance with 40 CFR Part 312 – *Standards and Practices for All Appropriate Inquiries; Final Rule*.

QES's Phase I Environmental Site Assessment has revealed the following:

- No recognized environmental conditions (RECs) are identified on the property;
- No controlled recognized environmental conditions (CRECs) are identified on the property;
- No historical recognized environmental conditions (HRECs) are identified on the property.

Based on the information presented herein, **no further investigation** is required at this time:

## 2.0 INTRODUCTION

### 2.1 Purpose

The purpose of this Phase I Environmental Site Assessment is to collect, identify, and summarize information on any past or present recognized environmental conditions or activities at 5221 Bay City Road in Midland, Midland County, Michigan and adjoining and/or nearby properties. In addition, the purpose for conducting an Environmental Site Assessment by ASTM Standards E 1527-13, with respect to the *Comprehensive Environmental Response, Compensation and Liability Act* (CERCLA), is to permit a user or potential responsible party to satisfy one of the requirements to qualify for the innocent landowner defense to CERCLA.

In part, to come under the protection of the innocent landowner defense, a user or responsible party should be able to prove that they did not know and had no reason to know or suspect that recognized environmental conditions exist or existed and that “*all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice*” as defined in 42 USC 9601(35)(B), was made at the time of the acquisition. The scope of services in this report conforms to the ASTM Standards.

This assessment has been prepared to identify areas that may warrant further discussion, explanation, or investigation to fully assess the potential impacts for the parties involved with, or acquiring an interest in, the subject property.

***Recognized Environmental Conditions*** – the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.

***Controlled Recognized Environmental Conditions*** – a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restriction, activity and use limitations, institutional controls, or engineering controls).

***Historical Recognized Environmental Conditions*** – a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restriction, activity and use limitations, institutional controls, or engineering controls).

## **2.2 Background**

QES was retained to perform a Phase I Environmental Site Assessment of the property located at 5221 Bay City Road in Midland, Midland County, Michigan. The site inspection was performed on December 23, 2017.

## **2.3 Special Terms & Conditions**

This Phase I Environmental Site Assessment was performed on behalf of and exclusively for the use of Millennium Bank and US Small Business Administration (the Client). The environmental assessment detailed in this report has been performed in accordance with generally accepted methods and practices of the environmental engineering profession. The scope and depth of this study are as directed, and as agreed to, by the Client. All findings are based on document review, conversations, and site reconnaissance as noted in this report. QES employed experienced and trained professionals in attempting to locate and identify hazardous materials or conditions. No term or provision of this Agreement is intended to be, or shall be, for the benefit of any person, firm, organization, or corporation not a party hereto, and no such other person, firm, organization, or corporation shall have any right or cause of action hereunder.

## **2.4 Limitations & Exceptions of Assessment**

This assessment is subject to the limitations of the ASTM Standards and the limiting conditions listed in Section 2.5 and/or described within this report. Any reliance upon the information contained in this report by third parties beyond its intended purpose, shall be at such parties' sole risk. The contract with the Client for this project allows no third party reliance without a *Limited Third Party Reliance Agreement*.

This Report must be read and interpreted as a whole. The individual components of the Report are dependent upon the balance of the Report and upon the special terms and conditions, limitations, and limiting conditions described herein, and upon the proposed Scope of Work and any written amendments accepted by QES.

## **2.5 Limiting Conditions & Methodology Used**

This Phase I Environmental Assessment was performed in accordance with the procedures described in the *Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process* as developed by the American Society for Testing & Materials (ASTM Standard E 1527-13) and in accordance with 40 CFR Part 312 – *Standards and Practices for All Appropriate Inquiries; Final Rule*. The following limiting conditions were encountered during this assessment:

Historical use information was reviewed as part of this assessment. The historical information presented has been collected within the time constraints of the project and is considered reasonably ascertainable.

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The purpose of this study is to identify recognized environmental conditions, historical recognized environmental conditions, and controlled environmental conditions. This report is not intended to represent an exhaustive research of all potential environmental concerns, which may exist at the subject property and does not purport to be representative of future conditions or events. Subsequent activities or events at the subject or surrounding properties resulting in adverse environmental impacts or recognized environmental conditions, historical recognized environmental conditions, and controlled environmental condition are not to be considered relevant to this study.

### **Methodology:**

Prior to the site inspection, state and federal database listings and records were reviewed to identify any recognized environmental conditions, historical recognized environmental conditions, and controlled environmental conditions on the subject property or the surrounding properties. The site inspection consisted of an inspection of the interior and exterior of the building. An inspection of the remaining portion of the subject property was conducted and characteristics of the surrounding area were also noted at this time.

### **3.0 SITE INFORMATION**

#### **3.1 Location and Site Description**

The subject property is located at 5221 Bay City Road in Midland, Midland County, Michigan. The property has approximately 6.61 acres of land. The property is improved with four connected two-story brick and masonry buildings which formed a court yard in the middle. The property is operated as a Best Western Hotel. The building has approximately 102,554 square feet in size. The property has been developed as a hotel since 1974.

The latitude and longitude of the subject property are 43°36'20.11" North and 84°9'47.95" West, respectively. The property index numbers are: 31-19-70-046 & 31-13-50-199.

#### **3.2 Site Description and Vicinity Characteristics**

The property is improved with four connected two-story brick and masonry buildings which formed a court yard in the middle. The building consists of reception area, one hundred and fifty-one (151) guest rooms, a breakfast area, six (6) meeting rooms, a swimming pool, a laundry room and a mechanic room. Typical guest room has dry wall ceilings and carpet floor in the bedroom area. Each guest room is equipped with a zoned heating/AC unit.

#### **3.3 Physical Settings**

The following sections provide information about the natural physical characteristics of the subject area. The information presented was obtained from United States Geological Survey (USGS) 7.5-minute topographical map.

The subject property is located in a relatively flat area. Surface water is expected to flow in the direction of local area sewer systems. Elevation in the area is approximately 654 feet above mean sea level (MSL), according to the *USGS 7.5 Minute Topographical Map*.

#### **3.4 Current Uses of the Subject Property**

Currently, the property is operated as Best Western Hotel by Divya Corporation. According to the information reviewed, the property has been developed as a hotel since 1974. Prior to its current development, the property was a vacant land.

#### **3.5 Current Uses of Adjoining Properties**

The surrounding area consists of commercial properties. The following is a summary of the facilities that directly adjoin the subject property:

**NORTH:** The area north of the subject property is developed commercial properties.

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- SOUTH:** The area south of the subject property, across Bay City Road, is a vacant land.
- EAST:** The area east of the subject property is Highway 10, further east, is a vacant land.
- WEST:** The area west of the subject property is developed with commercial properties.

#### 4.0 SITE HISTORY

Sanborn Maps and City Directory were reviewed to evaluate and assess the nature of previous activities on the subject property.

##### Sanborn Map Review

No Sanborn Maps surrounding the subject property were available.

##### City Directory Review

The City Directory information for the subject property was reviewed. The information was obtained through EDR Digital Archive, Robinson's City Directory, Con Survey City Directory, Polk's City Directory and Luedder's City Directory. EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

According to the information reviewed, the subject property was identified as a hotel and restaurant from at least 1983. The summary of the review results is listed below:

| <b>Year</b> | <b>Property Use</b>                                                                                        | <b>Research Resource</b>  |
|-------------|------------------------------------------------------------------------------------------------------------|---------------------------|
| 1929        | No Record                                                                                                  | Luedder's City Directory  |
| 1935        | No Record                                                                                                  | Luedder's City Directory  |
| 1941        | No Record                                                                                                  | Luedder's City Directory  |
| 1949        | No Record                                                                                                  | Luedder's City Directory  |
| 1959        | No Record                                                                                                  | Polk's City Directory     |
| 1965        | No Record                                                                                                  | Con Survey City Directory |
| 1971        | No Record                                                                                                  | Robinson's City Directory |
| 1975        | No Record                                                                                                  | Robinson's City Directory |
| 1979        | No Record                                                                                                  | Robinson's City Directory |
| 1983        | Captin Nemo Restaurant<br>Valley Plaza Inn<br>Train Station<br>Four Seasons Health Club                    | Robinson's City Directory |
| 1987        | Captin Nemo Restaurant<br>Valley Plaza Inn<br>Train Station<br>Four Seasons Health Club<br>The Health Shop | Robinson's City Directory |
| 1992        | Tridge Management Inc.<br>Valley Plaza Inn                                                                 | EDR Digital Archive       |
| 1995        | Great Hall<br>Lynk Management Inc.<br>Nicoles                                                              | EDR Digital Archive       |

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|      |                                                                                                                                               |                     |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|      | Tridge Management Inc.<br>Valley Plaza Inn                                                                                                    |                     |
| 2000 | Best Western Valley Plaza Resort<br>Gimmicks for Food & Fun<br>NAR Inc<br>Nicoles<br>Valley Plaza Resort                                      | EDR Digital Archive |
| 2005 | Best Western Valley Plaza Resort<br>Four Seasons Health Aquatics Club<br>Gimmicks for Food & Fun<br>NAR Inc<br>Nicoles<br>Valley Plaza Resort | EDR Digital Archive |
| 2010 | Gimmicks for Food & Fun<br>ISHA Hospitality Inc.<br>Nicoles                                                                                   | EDR Digital Archive |
| 2014 | Four Seasons Health Aquatics Club<br>ISHA Hospitality Inc.<br>Nicoles                                                                         | EDR Digital Archive |

### Other Information Review

According to the information obtained from the Midland County Accessor, the subject property has approximately 6.61 acres of land. The building has approximately 102,554 square feet in size. The property index numbers are: 31-19-70-046 & 31-13-50-199. Currently, the property owner is listed as MPR Enterprises Inc. Darshana Hospitality LLC purchased the property in 2008.

## **5.0 SITE RECONNAISSANCE**

### **5.1 Hazardous and Non-Hazardous Waste**

QES personnel inspected the subject property for evidence of hazardous substances being generated, stored, or disposed of on the subject property. Substances observed on the subject property are evaluated according to provisions set forth by the *Resource Conservation and Recovery Act* (RCRA).

RCRA regulated hazardous waste materials are not currently generated on the subject property. There were no signs of improper solid waste disposal on the subject property.

QES inspected the north, south, east, and west boundaries of the subject property for signs of hazardous waste, dumping, uncontrolled discharges, or stains. No signs of hazardous waste, dumping, uncontrolled discharges, or stains were found on or adjacent to the subject property.

### **5.2 Hazardous Substances, Storage Areas and Spills**

No hazardous substance containers, storage areas, or spills were observed on the subject or the adjoining properties.

### **5.3 Storage Tanks**

The subject property and adjoining properties were inspected for visual evidence of storage tank emplacements, such as vent pipes, fill pipes, fill caps, service pumps, or other equipment, which may indicate the presence of storage tanks.

#### **5.3.1 Underground Storage Tanks (USTs)**

No underground storage tank (UST) was identified on the subject property.

#### **5.3.2 Aboveground Storage Tanks**

No aboveground storage tank (AST) was identified on the subject property.

### **5.4 Utilities**

The utilities supplied to the property include: natural gas, electricity, sewer and telephone.

### **5.5 Water and Wastewater Discharges**

Potable water for the area including the subject property is supplied by the City of Midland. There is no industrial or process wastewater discharge associated with the subject property; discharges consist of regular domestic sanitary discharges only.

## **5.6 Air Emissions**

The *Clean Air Act* of 1970, which amended the *Air Quality Act* of 1967, was established “to protect and enhance the quality of the Nation’s air resources so as to promote public health and welfare and the productive capacity of its population.” Since 1970, the basic act has been significantly amended to reflect national concern over air quality.

## **5.7 Toxic Substances**

### **5.7.1 Polychlorinated Biphenyls (PCBs)**

PCBs are strictly controlled by the *Toxic Substance Control Act* (TSCA) of 1980. TSCA is charged with regulating the manufacture of substances considered toxic and harmful to health and the environment. Although banned from U.S. production in 1979, PCBs were previously incorporated into transformer and switchgear oil as insulators, and may also be present in hydraulic and recycled lubricating oils.

During the assessment of the subject property, no suspect PCB materials were observed in connection with the subject property.

### **5.7.2 Asbestos Materials**

No asbestos materials were identified during the site inspection.

### **5.7.3 Lead Based Paint**

No lead based paint was identified during the site inspection.

## **6.0 RECORDS REVIEW**

Phase I Environmental Site Assessments include a search of public records and databases provided by State and Federal regulatory agencies to determine the regulatory status of the subject property and sites located within the search distances specified according to the ASTM Standard Practice for Environmental Site Assessments. The database search (EDR Database Report) exceeds the ASTM recommended search distances, in some cases; however, only the sites identified within the ASTM recommended search distances are discussed, unless otherwise described.

### **6.1 Federal Records**

#### **6.1.1 NPL**

The National Priorities List (NPL) identifies and ranks targets for long-term remedial action pursuant to the *Comprehensive Environmental Response, Compensation & Liability Act* (CERCLA), 42 USC 9605(a)(8)(b), which was enacted to initiate the cleanup of hazardous waste sites with the highest priority for cleanup pursuant to United States Environmental Protection Agency (USEPA) Hazard Ranking System. Factors taken into consideration prior to assignment of national priority status include the type and quantities of wastes involved, potential for human exposure, pathways of exposure, and the importance of the underlying supply of groundwater.

QES personnel reviewed the most recent USEPA National Priority List and concluded that:

- There are no NPL sites identified within a one-mile radius of the subject property.

#### **6.1.2 Proposed NPL**

A Proposed NPL site means that the site has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

QES personnel reviewed the most recent USEPA National Priority List and concluded that:

- There are no Proposed NPL sites identified within a one-mile radius of the subject property.

#### **6.1.3 Delisted NPL**

A Delisted NPL (National Priority List Deletions) is the criteria established by the National Oil and Hazardous Substances Pollution Contingency Plan.

USEPA 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.

QES personnel reviewed the most recent USEPA National Priority List and concluded that:

- There are no listed NPL sites identified within a one-mile radius of the subject property.

#### **6.1.4 NPL Liens (Federal Superfund Liens)**

Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

QES personnel reviewed the most recent USEPA Superfund Liens List and concluded that:

- The subject property is not listed as a NPL Liens site.

#### **6.1.5 CERCLIS**

*Comprehensive Environmental Response, Compensation & Liability Act* (CERCLA) and related amendments (the *Superfund Amendments and Re-authorization Act* - SARA) were enacted to initiate the cleanup of hazardous waste sites for which responsible parties could not be found. The Comprehensive Environmental Response, Compensation Liability Information System (CERCLIS) is a list of sites compiled by USEPA that USEPA has investigated or is currently investigating for potential hazardous substances contamination for possible inclusion on the NPL. CERCLIS contains sites which are either proposed to or on the NPL and sites which are in the screening and assessment phase for possible inclusion on the NPL.

QES personnel reviewed the most recent CERCLIS database and concluded that:

- There is no CERCLIS site identified within a 1/2-mile radius of the subject property.

#### **6.1.6 CERC-NFRAP**

CERCLIS-NFRAP is a list of the CERCLIS sites which No Further Remedial Action Planned. Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of USEPA's knowledge, assessment at a site has been completed and that USEPA has determined no further steps will be taken to list this site on the NPL, unless information indicates this decision was not appropriate or other

considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

QES personnel reviewed the most recent CERC-NFRAP database and concluded that:

- There is no CERC-NFRAP sites identified within a 1/2-mile radius of the subject property.

#### **6.1.7 Liens (Environmental Liens)**

Environmental LIENS is a listing of properties with environmental liens. The listing includes sites from the Site Remediation & Waste Management Program Sites where the Department has placed either a 1st Priority or Regular Spill Fund Lien against. (1st Priority Type Lien - a lien placed against the property where the discharge occurred providing that the owners of the property have some responsibility towards the discharge. First Priority Lien is superior to other types of liens. Non-Priority (Regular) Type Lien - a lien placed against the Responsible Party & their revenues and all real and personal property, other than the real property comprising the location of the discharge.)

QES personnel reviewed the most recent USEPA Superfund Liens List and concluded that:

- The subject property is not listed as a NPL Liens site.

#### **6.1.8 LIENS 2 (CERCLA Lien Information)**

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLA provides information as to the identity of these sites and properties.

QES personnel reviewed the most recent CERCLA Liens List and concluded that:

- The subject property is not listed as a CERCLA Liens site.

#### **6.1.9 Resource Conservation & Recovery Act (RCRA)**

Federal and State programs which regulate the land disposal of waste materials and the recovery of materials and energy resources from the waste stream were implemented under the *Resource Conservation and Recovery Act* (RCRA) in 1976. RCRA generators are grouped into categories based on the amounts of hazardous wastes that are generated and the length of time these wastes are stored at the facilities.

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The RCRA Program tracks hazardous waste from generation to disposal at a RCRA permitted treatment, storage or disposal (TSD) facility. RCRA-permitted TSD facilities must report on the generation, treatment, storage, and disposal of RCRA hazardous wastes defined under 40 CFR 261. The EPA maintains a database of RCRA facilities, which are undergoing “corrective action” pursuant to violations of the act and releases of hazardous substances or wastes into the environment (CORRACTS).

QES personnel reviewed the most recent database for facilities placed on the RCRIS list of hazardous waste large quantity generators (greater than 1000 Kg/month) (RCRA-LQG), and small quantity generators (100-1000 Kg/month) (RCRA-SQG), Conditionally Exempt Small Quantity Generator (less than 100Kg/month or less than 1 Kg/month of acutely hazardous waste) (RCRA-CESQG), and Non-Generators (do not presently generate hazardous waste) (RCRA-NonGen). The records were reviewed for RCRA generators operating within 1/4 mile of the subject property. Per ASTM, generators on or directly adjacent to the subject property have been identified, unless otherwise noted. Additionally, QES personnel reviewed the most recent RCRIS list for TSD facilities within 1/2 mile of the subject property and the CORRACTS database for sites within one mile.

QES personnel reviewed the most recent CORRACTS database and concluded that:

- There is no CORRACTS site identified within a 1-mile radius of the subject property.

QES personnel reviewed the most recent RCRA-TSDF, RCRA-LQG, RCRA-SQG, RCRA-CESQG, and RCRA-NonGen databases and concluded that:

- There is no RCRA-TSDF site identified within a 1/2-mile radius of the subject property.
- There is no RCRA-LQG site identified within a 1/4-mile radius of the subject property.
- There is no RCRA-SQG site identified within a 1/4-mile radius of the subject property.
- There is one (1) RCRA-CESQG site identified within a 1/4-mile radius of the subject property.

| RCRA-CESQG Site                           | Address          | Distance (feet) | Direction | Status              |
|-------------------------------------------|------------------|-----------------|-----------|---------------------|
| Valley Lane Family & Entertainment Center | 5021 Bay City Rd | 803             | W         | No Violations Found |

Based on information reviewed, it is the opinion of QES that this RCRA-CESQG site is not considered as a recognized environmental condition.

- There is no RCRA-NonGen site identified within a 1/4-mile radius of the subject property.

#### **6.1.10 US ENG Controls**

USEPA lists all the sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

QES personnel reviewed the most recent US ENG Controls database and concluded that:

- There is no US ENG Controls site identified within a 1/2-mile radius of the subject property.

#### **6.1.11 US INST Control**

USEPA lists all the sites with institutional controls in place. Institutional controls include administrative, measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

QES personnel reviewed the most recent US INST Control database and concluded that:

- There is no US INST Controls site identified within a 1/2-mile radius of the subject property.

#### **6.1.12 US BROWNFIELDS**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment.

QES personnel reviewed the most recent US Brownfields database and concluded that:

- There is no US Brownfields site identified within a 1/2-mile radius of the subject property.

#### **6.1.13 Department of Defense Site (DOD)**

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.

QES personnel reviewed the most recent DOD database and concluded that:

- There is no DOD site identified within a 1-mile radius of the subject property.

#### **6.1.14 Formerly Used Defense Sites (FUDS)**

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

QES personnel reviewed the most recent FUDS database and concluded that:

- There is no FUDS site identified within a 1-mile radius of the subject property.

#### **6.1.15 Land Use Control Information System (LUCIS)**

The Land Use Control Information System (LUCIS) contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

QES personnel reviewed the most recent LUCIS database and concluded that:

- There is no LUCIS site identified within a 1/2-mile radius of the subject property.

#### **6.1.16 Superfund (CERCLA) Consent Decrees (CONSENT)**

Superfund (CERCLA) Consent Decrees (CONSENT) lists Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. It is released periodically by United States District Courts after settlement by parties to litigation matters.

QES personnel reviewed the most recent CONSENT database and concluded that:

- There is no CONSENT site identified within a 1-mile radius of the subject property.

#### **6.1.17 Records of Decision (ROD)**

Record of Decision (ROD) documents mandate a permanent remedy at an NPL

(Superfund) site containing technical and health information to aid in the cleanup.

QES personnel reviewed the most recent ROD database and concluded that:

- There is no ROD site identified within a 1-mile radius of the subject property.

#### **6.1.18 Uranium Mill Tailings Sites (UMTRA)**

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.

QES personnel reviewed the most recent UMTRA database and concluded that:

- There is no UMTRA site identified within a 1/2-mile radius of the subject property.

#### **6.1.19 Open Dump Inventory (ODI)**

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

QES personnel reviewed the most recent ODI database and concluded that:

- There is no ODI site identified within a 1/2-mile radius of the subject property.

#### **6.1.20 Mines Master Index File (MINES)**

The USEPA Mines Master Index File (MINES) contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

QES personnel reviewed the most recent MINES database and concluded that:

- There is no MINES site identified within a 1/4-mile radius of the subject property.

#### **6.1.21 Emergency Response Notification System (ERNS)**

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

QES personnel reviewed the most recent ERNS database and concluded that:

- The subject property is not listed as an ERNS site.

#### **6.1.22 Hazardous Materials Information Reporting System (HMIRS)**

Hazardous Materials Incident Report System (HMIRS) is a database which contains hazardous material spill incidents reported to the Department of Transportation (DOT).

QES personnel reviewed the most recent HMIRS database and concluded that:

- The subject property is not listed as a HMIRS site.

#### **6.1.23 DOT OPS**

DOT OPS is a database which contains the incident and accident data listed by the Department of Transportation, Office of Pipeline Safety.

QES personnel reviewed the most recent DOT OPS database and concluded that:

- The subject property is not listed as a DOT OPS site.

#### **6.1.24 Clandestine Drug Labs (CDL)**

Clandestine Drug Labs (CDL) is a database listing of clandestine drug lab locations which can be found on the U.S. Department of Justice's web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department of Justice, and the Department of Justice has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

QES personnel reviewed the most recent CDL database and concluded that:

- The subject property is listed as a CDL site. This implies that some drug activities may be identified on the property in the past.

#### **6.1.25 Toxic Chemical Release Inventory System (TRIS)**

The Toxic Chemical 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.

QES personnel reviewed the most recent TRIS database and concluded that:

- The subject property is not listed as a TRIS site.

#### **6.1.26 Toxic Substances Control Act (TSCA)**

The 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.

QES personnel reviewed the most recent TSCA database and concluded that:

- The subject property is not listed as a TSCA site.

#### **6.1.27 FIFRA/TSCA Tracking System (FTTS)**

FTTS is FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act) / TSCA (Toxic Substances Control Act) Tracking System which 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, the Agency is contacted on a quarterly basis.

QES personnel reviewed the most recent FTTS database and concluded that:

- The subject property is not listed as a FTTS site.

#### **6.1.28 FIFRA/TSCA Tracking System Administrative Case Listing (HIST FTTS)**

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

QES personnel reviewed the most recent HIST FTTS database and concluded that:

- The subject property is not listed as a HIST FTTS site.

#### **6.1.29 Section 7 Tracking System (SSTS)**

Section 7 Tracking Systems (SSTS) is the 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.

QES personnel reviewed the most recent SSTS database and concluded that:

- The subject property is not listed as a SSTS site.

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

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

QES personnel reviewed the most recent ICIS database and concluded that:

- The subject property is not listed as an ICIS site.

#### **6.1.31 PCB Activity Database System (PADS)**

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.

QES personnel reviewed the most recent PADS database and concluded that:

- The subject property is not listed as a PADS site.

#### **6.1.32 Material Licensing Tracking System (MLTS)**

Material Licensing Tracking System (MLTS) is maintained by the Nuclear Regulatory Commission (NRC) and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements.

QES personnel reviewed the most recent MLTS database and concluded that:

- The subject property is not listed as a MLTS site.

#### **6.1.33 Radiation Information Database (RADINFO)**

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by USEPA regulations for radiation and radioactivity.

QES personnel reviewed the most recent RADINFO database and concluded that:

- The subject property is not listed as a RADINFO site.

#### **6.1.34 Facility Index System/Facility Registry System (FINDS)**

Facility Index System/Facility Registry System (FINDS) contains both facility information and ‘pointers’ to other sources that contain more detail. QES 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).

QES personnel reviewed the most recent FINDS database and concluded that:

- The subject property is not listed as a FINDS site.

#### **6.1.35 RCRA Administrative Action Tracking System (RAATS)**

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 USEPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. USEPA 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.

QES personnel reviewed the most recent RAATS database and concluded that:

- The subject property is not listed as a RAATS site.

### **6.2 State and Local Records**

#### **6.2.1 State Hazardous Waste Sites (SHWS)**

The State Hazardous Waste Sites (SHWS) 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 Michigan Department of Environmental Quality’s Category list.

QES personnel reviewed the Michigan SHWS database and concluded that:

- There is no Michigan SHWS site identified within a 1-mile radius of the subject property.

#### **6.2.2 Solid Waste Facility/Landfill Sites (SWF/LF)**

Solid Waste Facility/Landfill Sites (SWF/LF) contain permitted solid waste facilities. 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.

QES personnel reviewed the most recent SWF/LF database and concluded that:

- There is no SWF/LF site identified within a 1/2-mile radius of the subject property.

#### **6.2.3 Local Lists of Landfill / Solid Waste Disposal Sites (SWRCY)**

Landfill / Solid Waste Disposal Site (SWRCY) is a listing of recycling facilities located in the State of Michigan.

QES personnel reviewed the most recent SWRCY database and concluded that:

- There is no SWRCY site identified within a 1/2-mile radius of the subject property.

#### **6.2.4 Registered Underground Storage Tanks (UST)**

Underground storage tanks are an environmental concern when tank product leakage or spillage occurs. The USEPA estimates that there are three million underground storage tanks in the United States, 35% of which are estimated to be presently leaking. Leaking or overfilled tanks, which contaminate the surrounding soils and/or groundwater, can represent a substantial environmental liability for site owners/operators.

A review of the UST list, as provided by EDR, has revealed that:

- There is one (1) UST site currently registered within approximately 1/4- mile from the subject property.

| UST Site        | Address          | Distance (feet) | Direction | Status         |
|-----------------|------------------|-----------------|-----------|----------------|
| Valley Standard | 5001 Bay City Rd | 1,028           | W         | 4 USTs Removed |

All the tanks in the above UST site were removed, therefore, this UST site is not considered as a recognized environmental condition.

**6.2.5 State Leaking Underground Storage Tanks (LUST)**

The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the MDEQ Leaking Underground Storage Tank Data list database.

A review of the LUST list, as provided by EDR, and dated 09/20/2017 has revealed that:

- There is one (1) LUST site identified within approximately 1/2-mile from the subject property.

| LUST Site       | Address          | Distance (feet) | Direction | Incident Number | Status |
|-----------------|------------------|-----------------|-----------|-----------------|--------|
| Valley Standard | 5001 Bay City Rd | 1,028           | W         | C-1189-98       | Closed |

The above LUST site was closed in June 1999, therefore, this LUST site is considered as an either controlled recognized environmental condition or historical recognized environmental condition.

**6.2.6 Registered Aboveground Storage Tanks (AST)**

The aboveground storage tank database contains registered ASTs. The data come the Department of Natural Resources Michigan AST database.

A review of the AST list, as provided by EDR, and dated 08/14/2017 has revealed that:

- There is one (1) AST site currently registered within approximately 1/4- mile from the subject property.

| AST Site                      | Address          | Distance (feet) | Direction | Status        |
|-------------------------------|------------------|-----------------|-----------|---------------|
| Valley Plaza Convenience Inc. | 5001 Bay City Rd | 1,028           | W         | 1 AST Removed |

The AST was removed in 1999, therefore, this AST site is not considered as a recognized environmental condition.

**6.2.7 WI MANIFEST**

WI MANIFEST is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility. QES reviewed the most recent WI MANIFEST database and revealed that:

- There is no WI MANIFEST site identified within approximately 1/4-mile to the subject property.

#### **6.2.8 Drycleaners**

A list of drycleaning facilities in the Michigan. QES personnel reviewed the most recent Michigan Drycleaner List Database and concluded that:

- There is no Drycleaner site identified within approximately 1/4-mile from the subject property.

#### **6.2.9 BROWNFIELDS**

BROWNFIELDS are identified as former or current commercial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria.

QES personnel reviewed the most recent BROWNFIELDS Database and concluded that:

- There is no BROWNFIELDS site located within approximately 1/2-mile of the subject property.

#### **6.2.10 Activity and Use Limitation (AUL)**

Activity and use limitations include both engineering controls and institutional controls. AUL database records a listing of Comfort/Site Status Letter sites that have been issued with controls.

QES personnel reviewed the most recent AUL database and concluded that:

- There is one (1) AUL site located within approximately 1/2-mile of the subject property.

| AUL Site        | Address          | Distance (feet) | Direction |
|-----------------|------------------|-----------------|-----------|
| Valley Standard | 5001 Bay City Rd | 1,028           | W         |

Based on information reviewed, it is the opinion of QES that this AUL site is not considered as a recognized environmental condition to the subject property.

#### **6.2.11 Inventory Site (INVENTORY)**

The Inventory of facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213,

## Phase I Environmental Site Assessment

5221 Bay City Road, Midland, MI 48642

Leaking Underground Storage Tank of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities are not known to DEQ are not in the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities list here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective actions have not been completed is located on the Leaking Underground Storage Tanks Site Search Webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in the closure report meets criteria. A BEA is a document that new or prospective property owners/operators disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA facilities overlap in part with the Part 201 Projects Facilities and Part 213 Facilities. There may be more than one BEA for each facility.

A review of INVENTORY list, as provided by EDR, and dated 10/24/2017 revealed that:

- There are three (3) INVENTORY sites located within approximately 1/2-mile of the subject property.

| INVENTORY Site       | Address          | Distance (feet) | Direction |
|----------------------|------------------|-----------------|-----------|
| Valley Standard      | 5001 Bay City Rd | 1,028           | W         |
| DOW Brine GIV-16, 10 | 414 Rockwell Dr. | 2,241           | SSW       |
| DOW Brine GII-9, 10P | 414 Rockwell Dr. | 2,241           | SSW       |

Based on information reviewed, it is the opinion of QES that these INVENTORY sites are not considered as recognized environmental conditions.

### 6.2.12 AIRS

The *Clean Air Act* of 1970, which amended the *Air Quality Act* of 1967, was established “to protect and enhance the quality of the Nation’s air resources so as to promote public health and welfare and the productive capacity of its population.” Since 1970, the basic act has been significantly amended to reflect national concern over air quality. The MDEQ maintains the AIRS database of air permits and emission information.

QES personnel reviewed the most recent AIRS database and concluded that:

- The subject property is not listed as an AIRS site.

### **6.2.13 Tier 2 Facility Listing (TIER 2)**

TIER 2 records a listing of facilities which store or manufacture hazardous material that submit a chemical inventory report.

QES personnel reviewed the most recent TIER 2 database and concluded that:

- The subject property is not listed as a TIER 2 site.

## **6.3 Tribal Records**

### **6.3.1 Indian Reservation (INDIAN RESERV)**

An Indian Reservation is land reserved for a tribe when it relinquished its other land areas to the United States through treaties. More recently, Congressional acts, Executive Orders, and administrative acts have created Reservations.

The United State Geological Survey (USGS) provides the *Federal Lands and Indian Reservations* Map to portray Indian administered lands of the United States that have any area equal to or greater than 640 acres.

QES personnel reviewed the most recent INDIAN RESERV Database and concluded that:

- There is no INDIAN RESERV site located within approximately 1-mile of the subject property.

### **6.3.2 Open Drums on Indian Land (INDIAN ODI)**

USEPA reports the open drum sites status on Indian Land. QES personnel reviewed the most recent INDIAN ODI Database and concluded that:

- There is no INDIAN ODI site located within approximately 1/2-mile of the subject property.

### **6.3.3 Underground Storage Tank (INDIAN UST)**

USEPA reports the registered UST sites status on Indian Land. QES personnel reviewed the most recent INDIAN UST Database and concluded that:

- There is no INDIAN UST site located within approximately 1/2-mile of the subject property.

### **6.3.4 Leaking Underground Storage Tank (INDIAN LUST)**

USEPA reports the leaking underground storage tank sites status on Indian Land. QES personnel reviewed the most recent INDIAN LUST Database and concluded that:

- There is no INDIAN LUST site located within approximately 1/2-mile of the subject property.

#### 6.4 EDR Exclusive Records

**EDR MGP:** The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1980's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil and water that also produced significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

QES personnel reviewed the MGP list provided by EDR and concluded that:

- There is no MGP site located within approximately 1-mile of the subject property.

**EDR Historical Auto Stations:** EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but not limited to, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

QES personnel reviewed the Historical Auto Stations list provided by EDR and concluded that:

- There is no EDR Historical Auto Stations site located within approximately 0.25-mile of the subject property.

**EDR Historical Cleaners List:** EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but not limited to, dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry, etc.

QES personnel reviewed the Historical Auto Stations list provided by EDR and concluded that:

- There is no EDR Historical Cleaners site located within approximately 0.25-mile of the subject property.

### **EDR Recovered Government Archives (RGA)**

**RGA LF:** The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historic databases and includes many records that no longer appear in current government lists.

A review of RGA LF list, as provided by EDR, has revealed that:

- There is no RGA LF site located within approximately 0.5-mile of the subject property.

**RGA LUST:** The EDR Recovered Government Archive Leaking Underground Storage Tank (LUST) database provides a list of LUST incidents derived from historic databases and includes many records that no longer appear in current government lists.

A review of RGA LUST list, as provided by EDR, has revealed that:

- There is no RGA LUST site located within approximately 0.5-mile of the subject property. The subject property was listed as a RGA LUST site.

**RGA HWS:** The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historic databases and includes many records that no longer appear in current government lists.

A review of RGA HWS list, as provided by EDR, has revealed that:

- There is no RGA HWS site located within approximately 1-mile of the subject property.

## **6.5 Unmapped Sites**

The Database Report includes a list of facilities that could not be properly located or mapped due to inadequate or incorrect address information. QES reviewed this list and the available information in the database and consulted local street directories to determine the relative proximity of these sites in relation to the subject property.

No unmapped site is identified.

## 7.0 FINDINGS & CONCLUSIONS

QES has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard *Practice for Environmental Site Assessments* of the property located at 5221 Bay City Road in Midland, Midland County, Michigan. The property has approximately 6.61 acres of land. The property is improved with four connected two-story brick and masonry buildings which formed a court yard in the middle. The property is currently operated as a Best Western Hotel. The building has approximately 102,554 square feet in size. The building consists of reception area, one hundred and fifty-one (151) guest rooms, a breakfast area, six (6) meeting rooms, a swimming pool, a laundry room and a mechanic room. Typical guest room has dry wall ceilings and carpet floor in the bedroom area. Each guest room is equipped with a zoned heating/AC unit.

The building was constructed in 1974. Currently, the property is owned by MPR Enterprises Inc. Darshana Hospitality LLC purchased the property in December 2008.

The site inspection was performed on December 23, 2017. During the site investigation, no visual spills were identified. There was no evidence of hazardous waste being generated, stored, or disposed of at the facility or on the subject property. No other conditions were identified, such as significant hazardous material storage; water or wastewater discharges; air emissions; or non-compliance issues. No toxic substances were noticed on the property during the time of inspection.

QES's Phase I Environmental Site Assessment has revealed the following:

- No recognized environmental conditions (RECs) are identified on the property;
- No controlled recognized environmental conditions (CRECs) are identified on the property;
- No historical recognized environmental conditions (HRECs) are identified on the property.

Based on the information presented herein, **no further investigation** is required at this time.

The issues and/or recognized environmental conditions are listed and/or identified in this report in order to identify areas that may warrant further discussion, explanation, or investigation to fully assess the potential impacts for the parties involved with, or acquiring an interest in, the subject property. It should be noted that the identification of recognized environmental conditions, is not, necessarily, an indication that environmental problems exist on the subject property. Other items identified in the body of this report, which may not be listed here, may also be of interest in light of a given transaction. As such, this report should be read and interpreted as a whole.

## Phase I Environmental Site Assessment

5221 Bay City Road, Midland, MI 48642

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### 8.0 REPORT SIGNATURE

This Phase I Environmental Site Assessment is performed and prepared by QES for the benefit of Millennium Bank and US Small Business Administration (the Client). The primary environmental professional responsible for this report is listed below.

The undersigned have no present or prospective interest in the Property or parties involved. This Assessment has been performed in accordance with the ASTM Standards and the specific requirements of the Client.

By means of this certification, the undersigned declare that, to the best of his professional knowledge and belief, the undersigned meet the definition of Environmental Professional as defined in § 312.10 of part 40 CFR Part 312.

The undersigned has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. The undersigned has developed and performed the all appropriate inquiries in conformance with the standards and practice set forth in 40 CFR Part 312.



---

Jack Yan, P.E.  
President

12/30/2017

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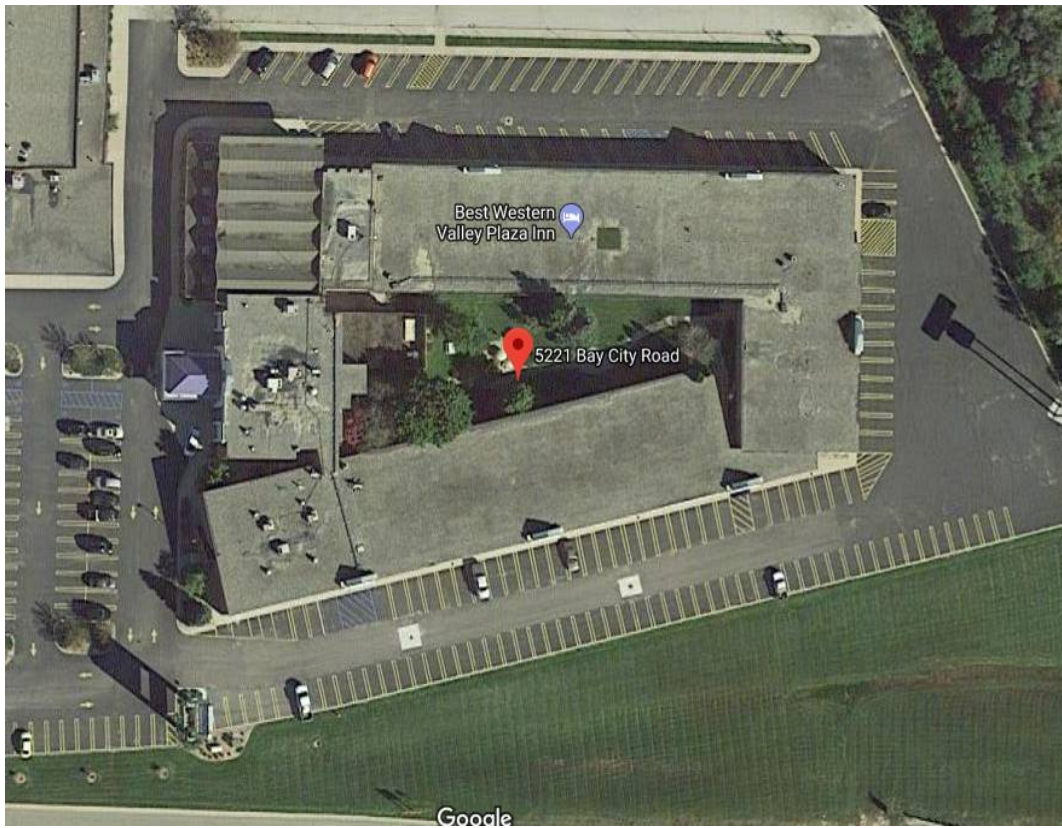
Date

**Appendix A**

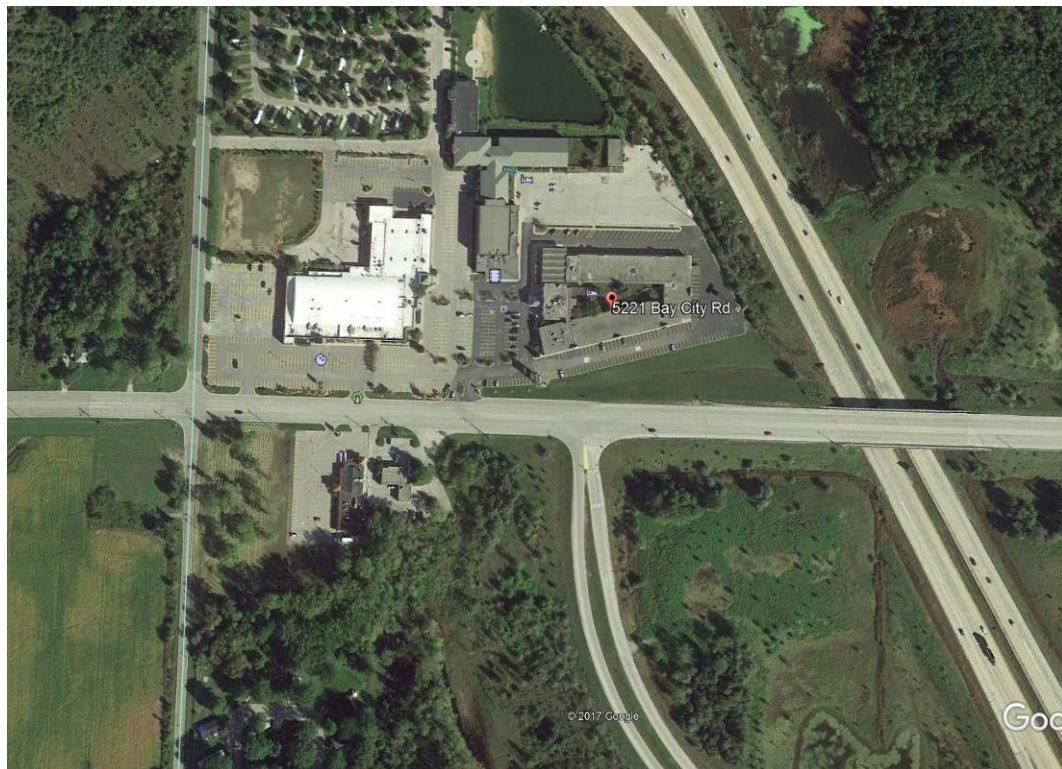
**Site Photographs**

**Phase I Environmental Site Assessment**  
5221 Bay City Road, Midland, MI 48642

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**Aerial Map of the Subject Property**



**Aerial Map of the Surrounding Properties**

**Phase I Environmental Site Assessment**  
5221 Bay City Road, Midland, MI 48642

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**View of the Building from Northwest**



**View of the Building from Northeast**

**Phase I Environmental Site Assessment**  
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**View of the Reception Area**



**View of the Guest Room (Typical)**

**Phase I Environmental Site Assessment**  
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**View of the Breakfast Area**



**View of the Kitchen**



**View of the Meeting Room**



**View of the Swimming Pool**



**View of the Laundry Room**



**View of the Boiler Room**



**View of the Vending Machine and Ice Machine**



**View of the Hotel Hallway**

**Phase I Environmental Site Assessment**  
5221 Bay City Road, Midland, MI 48642

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**View of North Adjacent Properties**



**View of South Adjacent Properties**



**View of East Adjacent Properties**



**View of West Adjacent Properties**

**Appendix B**

**EDR Database Report**

**Best Western Hotel**

5221 Bay City Road  
Midland, MI 48642

Inquiry Number: 5143621.2s  
December 21, 2017

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

5221 BAY CITY ROAD  
MIDLAND, MI 48642

#### COORDINATES

|                               |                             |
|-------------------------------|-----------------------------|
| Latitude (North):             | 43.6055870 - 43° 36' 20.11" |
| Longitude (West):             | 84.1633220 - 84° 9' 47.95"  |
| Universal Tranverse Mercator: | Zone 16                     |
| UTM X (Meters):               | 728940.6                    |
| UTM Y (Meters):               | 4831762.5                   |
| Elevation:                    | 654 ft. above sea level     |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

|                      |                           |
|----------------------|---------------------------|
| Target Property Map: | 6068863 MIDLAND SOUTH, MI |
| Version Date:        | 2014                      |

### AERIAL PHOTOGRAPHY IN THIS REPORT

|                         |          |
|-------------------------|----------|
| Portions of Photo from: | 20140813 |
| Source:                 | USDA     |

MAPPED SITES SUMMARY

Target Property Address:  
5221 BAY CITY ROAD  
MIDLAND, MI 48642

Click on Map ID to see full detail.

| MAP ID             | SITE NAME            | ADDRESS          | DATABASE ACRONYMS              | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|--------------------|----------------------|------------------|--------------------------------|--------------------|----------------------------|
| <a href="#">1</a>  | VALLEY PLAZA         | 5221 BAY CITY RD | WDS                            |                    | TP                         |
| <a href="#">2</a>  | VALLEY LANES FAMILY  | 5021 BAY CITY RD | RCRA-CESQG                     | Higher             | 803, 0.152, West           |
| <a href="#">A3</a> | VALLEY PLAZA CONVENI | 5001 BAY CITY    | AST                            | Higher             | 1028, 0.195, West          |
| <a href="#">A4</a> | VALLEY STANDARD      | 5001 BAY CITY RD | LUST, UST, AUL, INVENTORY, WDS | Higher             | 1028, 0.195, West          |
| <a href="#">B5</a> | DOW BRINE GIV-16, 10 | 414 ROCKWELL DR  | INVENTORY                      | Higher             | 2241, 0.424, SSW           |
| <a href="#">B6</a> | DOW BRINE GII-9, 10P | 414 ROCKWELL RD  | INVENTORY                      | Higher             | 2241, 0.424, SSW           |

## EXECUTIVE SUMMARY

### **TARGET PROPERTY SEARCH RESULTS**

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

| Site                                                  | Database(s)                                    | EPA ID |
|-------------------------------------------------------|------------------------------------------------|--------|
| VALLEY PLAZA<br>5221 BAY CITY RD<br>MIDLAND, MI 48642 | WDS<br>WMD Id: 448429<br>Site Id: MIG000028671 | N/A    |

### **DATABASES WITH NO MAPPED SITES**

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

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Federal NPL site list***

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

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

#### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

#### ***Federal RCRA non-CORRACTS TSD facilities list***

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

#### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators

## EXECUTIVE SUMMARY

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

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System

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

US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

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

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

### ***State and tribal leaking storage tank lists***

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

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing

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

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

BROWNFIELDS..... Brownfields and UST Site Database

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

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

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

HIST LF..... Inactive Solid Waste Facilities

SWRCY..... Recycling Facilities

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

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

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

US HIST CDL..... Delisted National Clandestine Laboratory Register

## EXECUTIVE SUMMARY

|                   |                                          |
|-------------------|------------------------------------------|
| PART 201.....     | Part 201 Site List                       |
| CDL.....          | Clandestine Drug Lab Listing             |
| DEL PART 201..... | Delisted List of Contaminated Sites      |
| US CDL.....       | National Clandestine Laboratory Register |

### **Local Land Records**

|              |                         |
|--------------|-------------------------|
| LIENS.....   | Lien List               |
| LIENS 2..... | CERCLA Lien Information |

### **Records of Emergency Release Reports**

|             |                                                  |
|-------------|--------------------------------------------------|
| HMIRS.....  | Hazardous Materials Information Reporting System |
| SPILLS..... | Pollution Emergency Alerting System              |

### **Other Ascertainable Records**

|                        |                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RCRA NonGen / NLR..... | RCRA - Non Generators / No Longer Regulated                                                                                 |
| FUDS.....              | Formerly Used Defense Sites                                                                                                 |
| DOD.....               | Department of Defense Sites                                                                                                 |
| SCRD DRYCLEANERS.....  | State Coalition for Remediation of Drycleaners Listing                                                                      |
| US FIN ASSUR.....      | Financial Assurance Information                                                                                             |
| EPA WATCH LIST.....    | EPA WATCH LIST                                                                                                              |
| 2020 COR ACTION.....   | 2020 Corrective Action Program List                                                                                         |
| TSCA.....              | Toxic Substances Control Act                                                                                                |
| TRIS.....              | Toxic Chemical Release Inventory System                                                                                     |
| SSTS.....              | Section 7 Tracking Systems                                                                                                  |
| ROD.....               | Records Of Decision                                                                                                         |
| RMP.....               | Risk Management Plans                                                                                                       |
| RAATS.....             | RCRA Administrative Action Tracking System                                                                                  |
| PRP.....               | Potentially Responsible Parties                                                                                             |
| PADS.....              | PCB Activity Database System                                                                                                |
| ICIS.....              | Integrated Compliance Information System                                                                                    |
| FTTS.....              | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) |
| MLTS.....              | Material Licensing Tracking System                                                                                          |
| COAL ASH DOE.....      | Steam-Electric Plant Operation Data                                                                                         |
| COAL ASH EPA.....      | Coal Combustion Residues Surface Impoundments List                                                                          |
| PCB TRANSFORMER.....   | PCB Transformer Registration Database                                                                                       |
| RADINFO.....           | Radiation Information Database                                                                                              |
| HIST FTTS.....         | FIFRA/TSCA Tracking System Administrative Case Listing                                                                      |
| DOT OPS.....           | Incident and Accident Data                                                                                                  |
| CONSENT.....           | Superfund (CERCLA) Consent Decrees                                                                                          |
| INDIAN RESERV.....     | Indian Reservations                                                                                                         |
| FUSRAP.....            | Formerly Utilized Sites Remedial Action Program                                                                             |
| UMTRA.....             | Uranium Mill Tailings Sites                                                                                                 |
| LEAD SMELTERS.....     | Lead Smelter Sites                                                                                                          |
| US AIRS.....           | Aerometric Information Retrieval System Facility Subsystem                                                                  |
| US MINES.....          | Mines Master Index File                                                                                                     |
| ABANDONED MINES.....   | Abandoned Mines                                                                                                             |
| FINDS.....             | Facility Index System/Facility Registry System                                                                              |
| DOCKET HWC.....        | Hazardous Waste Compliance Docket Listing                                                                                   |
| ECHO.....              | Enforcement & Compliance History Information                                                                                |
| UXO.....               | Unexploded Ordnance Sites                                                                                                   |
| FUELS PROGRAM.....     | EPA Fuels Program Registered Listing                                                                                        |

## EXECUTIVE SUMMARY

|                          |                                            |
|--------------------------|--------------------------------------------|
| AIRS.....                | Permit and Emissions Inventory Data        |
| ASBESTOS.....            | ASBESTOS                                   |
| BEA.....                 | Baseline Environmental Assessment Database |
| COAL ASH.....            | Coal Ash Disposal Sites                    |
| DRYCLEANERS.....         | Drycleaning Establishments                 |
| Financial Assurance..... | Financial Assurance Information Listing    |
| LEAD.....                | Lead Safe Housing Registry                 |
| NPDES.....               | List of Active NPDES Permits               |
| UIC.....                 | Underground Injection Wells Database       |

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

|                       |                                         |
|-----------------------|-----------------------------------------|
| EDR MGP.....          | EDR Proprietary Manufactured Gas Plants |
| EDR Hist Auto.....    | EDR Exclusive Historical Auto Stations  |
| EDR Hist Cleaner..... | EDR Exclusive Historical Cleaners       |

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| RGA PART 201..... | Recovered Government Archive State Hazardous Waste Facilities List |
| RGA LF.....       | Recovered Government Archive Solid Waste Facilities List           |
| RGA LUST.....     | Recovered Government Archive Leaking Underground Storage Tank      |

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal RCRA generators list***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 09/13/2017 has revealed that there is

## EXECUTIVE SUMMARY

1 RCRA-CESQG site within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>   | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|------------------|-----------------------------|---------------|-------------|
| VALLEY LANES FAMILY           | 5021 BAY CITY RD | W 1/8 - 1/4 (0.152 mi.)     | 2             | 8           |

### ***State and tribal leaking storage tank lists***

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

A review of the LUST list, as provided by EDR, and dated 09/20/2017 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u>                                                                           | <u>Address</u>          | <u>Direction / Distance</u>    | <u>Map ID</u> | <u>Page</u> |
|---------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------|---------------|-------------|
| <b>VALLEY STANDARD</b><br>Release Status: Closed<br>Substance Release: Unknown<br>Facility Id: 00001571 | <b>5001 BAY CITY RD</b> | <b>W 1/8 - 1/4 (0.195 mi.)</b> | <b>A4</b>     | <b>10</b>   |

### ***State and tribal registered storage tank lists***

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

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u>                                                                                                                                         | <u>Address</u>          | <u>Direction / Distance</u>    | <u>Map ID</u> | <u>Page</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------|---------------|-------------|
| <b>VALLEY STANDARD</b><br>Database: UST, Date of Government Version: 10/21/2016<br>Tank Status: Removed from Ground<br>Facility Type: CLOSED<br>Facility Id: 00001571 | <b>5001 BAY CITY RD</b> | <b>W 1/8 - 1/4 (0.195 mi.)</b> | <b>A4</b>     | <b>10</b>   |

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Natural Resources' Michigan AST database.

A review of the AST list, as provided by EDR, and dated 08/14/2017 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u>                                                                                          | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|---------------|-------------|
| VALLEY PLAZA CONVENI<br>Facility Id: 92056085<br>Removed/Closed Date: 06/18/1999<br>Tank Status: Removed from Premises | 5001 BAY CITY  | W 1/8 - 1/4 (0.195 mi.)     | A3            | 9           |

## EXECUTIVE SUMMARY

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

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

A review of the AUL list, as provided by EDR, and dated 08/25/2017 has revealed that there is 1 AUL site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u>                   | <u>Address</u>          | <u>Direction / Distance</u>    | <u>Map ID</u> | <u>Page</u> |
|-------------------------------------------------|-------------------------|--------------------------------|---------------|-------------|
| <b>VALLEY STANDARD</b><br>Facility ID: 00001571 | <b>5001 BAY CITY RD</b> | <b>W 1/8 - 1/4 (0.195 mi.)</b> | <b>A4</b>     | <b>10</b>   |

### **ADDITIONAL ENVIRONMENTAL RECORDS**

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

INVENTORY: The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

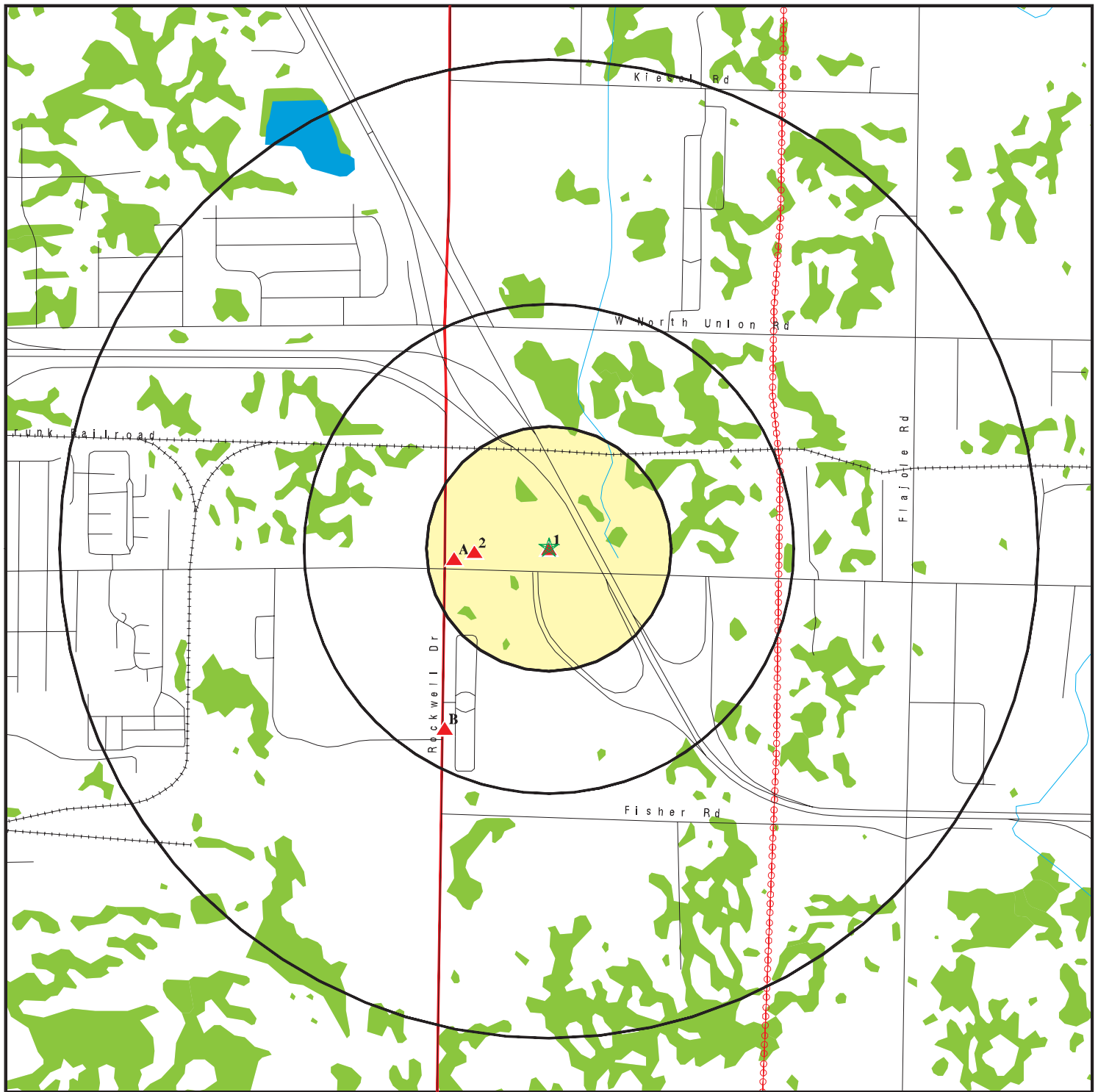
A review of the INVENTORY list, as provided by EDR, and dated 10/24/2017 has revealed that there are 3 INVENTORY sites within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u>                   | <u>Address</u>          | <u>Direction / Distance</u>    | <u>Map ID</u> | <u>Page</u> |
|-------------------------------------------------|-------------------------|--------------------------------|---------------|-------------|
| <b>VALLEY STANDARD</b><br>Facility ID: 00001571 | <b>5001 BAY CITY RD</b> | <b>W 1/8 - 1/4 (0.195 mi.)</b> | <b>A4</b>     | <b>10</b>   |
| DOW BRINE GIV-16, 10<br>Facility ID: 56000280   | 414 ROCKWELL DR         | SSW 1/4 - 1/2 (0.424 mi.)      | B5            | 13          |
| DOW BRINE GII-9, 10P<br>Facility ID: 56000238   | 414 ROCKWELL RD         | SSW 1/4 - 1/2 (0.424 mi.)      | B6            | 13          |

## EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 5143621.2S



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

- Indian Reservations BIA
- County Boundary
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

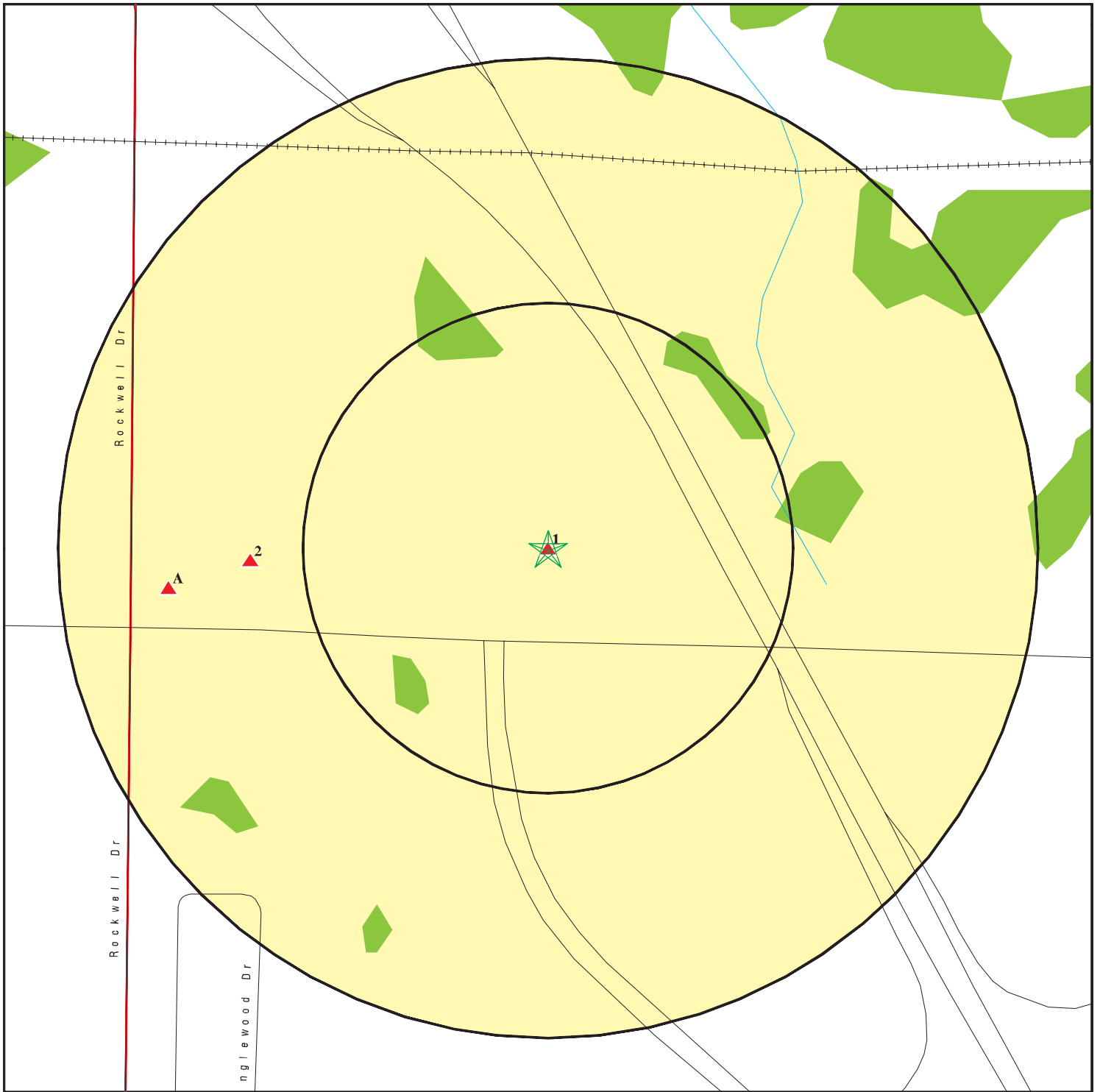
Upgradient Area

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

SITE NAME: Best Western Hotel  
 ADDRESS: 5221 Bay City Road  
 Midland MI 48642  
 LAT/LONG: 43.605587 / 84.163322

CLIENT: Quality Env. Solutions  
 CONTACT: Jack Yan  
 INQUIRY #: 5143621.2s  
 DATE: December 21, 2017 3:00 pm

# DETAIL MAP - 5143621.2S



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- ⚙ Sensitive Receptors
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites

- Indian Reservations BIA
- County Boundary
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

0 1/16 1/8 1/4 Miles



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

SITE NAME: Best Western Hotel  
 ADDRESS: 5221 Bay City Road  
 Midland MI 48642  
 LAT/LONG: 43.605587 / 84.163322

CLIENT: Quality Env. Solutions  
 CONTACT: Jack Yan  
 INQUIRY #: 5143621.2s  
 DATE: December 21, 2017 3:01 pm

## MAP FINDINGS SUMMARY

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

## MAP FINDINGS SUMMARY

| Database                                                                       | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|--------------------------------------------------------------------------------|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| UST                                                                            | 0.250                   |                 | 0     | 1         | NR        | NR      | NR  | 1             |
| AST                                                                            | 0.250                   |                 | 0     | 1         | NR        | NR      | NR  | 1             |
| INDIAN UST                                                                     | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| <b>State and tribal institutional control / engineering control registries</b> |                         |                 |       |           |           |         |     |               |
| AUL                                                                            | 0.500                   |                 | 0     | 1         | 0         | NR      | NR  | 1             |
| <b>State and tribal voluntary cleanup sites</b>                                |                         |                 |       |           |           |         |     |               |
| INDIAN VCP                                                                     | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b>State and tribal Brownfields sites</b>                                      |                         |                 |       |           |           |         |     |               |
| BROWNFIELDS                                                                    | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b>ADDITIONAL ENVIRONMENTAL RECORDS</b>                                        |                         |                 |       |           |           |         |     |               |
| <b>Local Brownfield lists</b>                                                  |                         |                 |       |           |           |         |     |               |
| US BROWNFIELDS                                                                 | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b>Local Lists of Landfill / Solid Waste Disposal Sites</b>                    |                         |                 |       |           |           |         |     |               |
| HIST LF                                                                        | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| SWRCY                                                                          | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| INDIAN ODI                                                                     | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| DEBRIS REGION 9                                                                | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| ODI                                                                            | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| IHS OPEN DUMPS                                                                 | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b>Local Lists of Hazardous waste / Contaminated Sites</b>                     |                         |                 |       |           |           |         |     |               |
| US HIST CDL                                                                    | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| INVENTORY                                                                      | 0.500                   |                 | 0     | 1         | 2         | NR      | NR  | 3             |
| PART 201                                                                       | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| CDL                                                                            | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| DEL PART 201                                                                   | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| US CDL                                                                         | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| <b>Local Land Records</b>                                                      |                         |                 |       |           |           |         |     |               |
| LIENS                                                                          | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| LIENS 2                                                                        | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| <b>Records of Emergency Release Reports</b>                                    |                         |                 |       |           |           |         |     |               |
| HMIRS                                                                          | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| SPILLS                                                                         | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| <b>Other Ascertainable Records</b>                                             |                         |                 |       |           |           |         |     |               |
| RCRA NonGen / NLR                                                              | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| FUDS                                                                           | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| DOD                                                                            | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| SCRD DRYCLEANERS                                                               | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |

## MAP FINDINGS SUMMARY

| Database            | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---------------------|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| US FIN ASSUR        | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| EPA WATCH LIST      | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| 2020 COR ACTION     | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| TSCA                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| TRIS                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| SSTS                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| ROD                 | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| RMP                 | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| RAATS               | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| PRP                 | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| PADS                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| ICIS                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| FTTS                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| MLTS                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| COAL ASH DOE        | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| COAL ASH EPA        | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| PCB TRANSFORMER     | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| RADINFO             | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| HIST FTTS           | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| DOT OPS             | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| CONSENT             | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| INDIAN RESERV       | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| FUSRAP              | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| UMTRA               | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| LEAD SMELTERS       | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| US AIRS             | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| US MINES            | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| ABANDONED MINES     | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| FINDS               | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| DOCKET HWC          | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| ECHO                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| UXO                 | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| FUELS PROGRAM       | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| AIRS                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| ASBESTOS            | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| BEA                 | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| COAL ASH            | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| DRYCLEANERS         | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| Financial Assurance | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| LEAD                | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| NPDES               | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| UIC                 | TP                      |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| WDS                 | TP                      | 1               | NR    | NR        | NR        | NR      | NR  | 1             |

### EDR HIGH RISK HISTORICAL RECORDS

#### **EDR Exclusive Records**

|                  |       |   |    |    |    |    |   |
|------------------|-------|---|----|----|----|----|---|
| EDR MGP          | 1.000 | 0 | 0  | 0  | 0  | NR | 0 |
| EDR Hist Auto    | 0.125 | 0 | NR | NR | NR | NR | 0 |
| EDR Hist Cleaner | 0.125 | 0 | NR | NR | NR | NR | 0 |

## MAP FINDINGS SUMMARY

| <u>Database</u>                                  | <u>Search<br/>Distance<br/>(Miles)</u> | <u>Target<br/>Property</u> | <u>&lt; 1/8</u> | <u>1/8 - 1/4</u> | <u>1/4 - 1/2</u> | <u>1/2 - 1</u> | <u>&gt; 1</u> | <u>Total<br/>Plotted</u> |
|--------------------------------------------------|----------------------------------------|----------------------------|-----------------|------------------|------------------|----------------|---------------|--------------------------|
| <b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>  |                                        |                            |                 |                  |                  |                |               |                          |
| <b><i>Exclusive Recovered Govt. Archives</i></b> |                                        |                            |                 |                  |                  |                |               |                          |
| RGA PART 201                                     | TP                                     |                            | NR              | NR               | NR               | NR             | NR            | 0                        |
| RGA LF                                           | TP                                     |                            | NR              | NR               | NR               | NR             | NR            | 0                        |
| RGA LUST                                         | TP                                     |                            | NR              | NR               | NR               | NR             | NR            | 0                        |
| - Totals --                                      |                                        | 1                          | 0               | 6                | 2                | 0              | 0             | 9                        |

### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1  
Target  
Property

VALLEY PLAZA  
5221 BAY CITY RD  
MIDLAND, MI 48642

WDS S111963468  
N/A

Actual:  
654 ft.

WDS:

Site Id: MIG000028671  
WMD Id: 448429  
Site Specific Name: VALLEY PLAZA  
Mailing Address: 5221 BAY CITY RD  
Mailing City/State/Zip: 48642  
Mailing County: MIDLAND

2  
West  
1/8-1/4  
0.152 mi.  
803 ft.

VALLEY LANES FAMILY & ENTERTAINMENT CENTER  
5021 BAY CITY RD  
MIDLAND, MI 48642

RCRA-CESQG 1014925004  
MIK634243349

Relative:  
Higher

RCRA-CESQG:

Date form received by agency: 04/11/2011  
Facility name: VALLEY LANES FAMILY & ENTERTAINMENT CENTER  
Facility address: 5021 BAY CITY RD  
MIDLAND, MI 48642  
EPA ID: MIK634243349  
Contact: TASHA BROWN  
Contact address: Not reported  
Not reported  
Contact country: US  
Contact telephone: 989-496-3940  
Contact email: SEAN.KELLY@WASTE365.COM  
EPA Region: 05  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: TASHA BROWN  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 04/01/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VALLEY LANES FAMILY & ENTERTAINMENT CENTER (Continued)**

**1014925004**

Owner/Op end date: Not reported

Owner/operator name: TASHA BROWN  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 04/01/2011  
Owner/Op end date: Not reported

**Handler Activities Summary:**

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

. Waste code: D001  
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

**A3**  
**West**  
**1/8-1/4**  
**0.195 mi.**  
**1028 ft.**

**VALLEY PLAZA CONVENIENCE INC**  
**5001 BAY CITY**  
**MIDLAND, MI 48642**  
**Site 1 of 2 in cluster A**

**AST A100207006**  
**N/A**

**Relative:**  
**Higher**

AST:  
Facility ID: 92056085  
Facility Phone: (517) 496-0234  
Owner Name: VALLEY PLAZA CONVENIENCE INC  
Owner Address: 3611 N EASTMAN RD  
Owner City,St,Zip: MIDLAND, MI 48642  
Owner County: Not reported  
Owner Contact: Not reported  
Owner Telephone: 9898354754  
District: 2  
Contact: KEITH FISHER  
List Status: Not reported  
Date of Collection: 01/11/2001  
Accuracy: 100 FEET  
Source: STATE OF MICHIGAN

**Actual:**  
**659 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VALLEY PLAZA CONVENIENCE INC (Continued)**

**A100207006**

Point Line Area: POINT  
Description Category: Plant Entrance (Freight)  
Method of Collection: Address Matching-House Number  
Horizontal Datum: NAD83  
Latitude: 43.6051140  
Longitude: -84.170377

Tank Id: ATK-024886-15  
Tank Status: Removed from Premises  
Capacity (in gallons): 1000  
Installation Date: 05/28/1992  
Substance Stored: Other  
Removed/Closed Date: 06/18/1999

**A4**  
**West**  
**1/8-1/4**  
**0.195 mi.**  
**1028 ft.**

**VALLEY STANDARD**  
**5001 BAY CITY RD**  
**MIDLAND, MI 48640**  
**Site 2 of 2 in cluster A**

**LUST** **U000250076**  
**UST** **N/A**  
**AUL**  
**INVENTORY**  
**WDS**

**Relative:**  
**Higher**

**LUST:**

Facility ID: 00001571  
Source: STATE OF MICHIGAN  
Owner Name: Nick Rapanos  
Owner Address: 1912 S Saginaw Rd  
Owner City,St,Zip: Midland, MI 48640-6808  
Owner Contact: Not reported  
Owner Phone: (517) 631-1289  
Country: USA  
District: Region 2 - Saginaw Bay District Office  
Site Name: Valley Standard  
Latitude: 43.60506  
Longitude: -84.15432  
Date of Collection: 08/06/2006  
Method of Collection: Interpolation-Map  
Accuracy: 15  
Accuracy Value Unit: METERS  
Horizontal Data: NAD83  
Point Line Area: POINT  
Desc Category: Not reported

**Actual:**  
**659 ft.**

Leak Number: C-1189-98  
Release Date: 11/24/1998  
Substance Released: Unknown  
Release Status: Closed  
Release Closed Date: 06/04/1999

**UST:**

Facility ID: 00001571  
Facility Type: CLOSED  
Owner Name: NICK RAPANOS  
Owner Address: 1912 S SAGINAW RD  
Owner City,St,Zip: MIDLAND, MI 48640-6808  
Owner Country: USA  
Owner Contact: Not reported  
Owner Phone: (517) 631-1289  
Contact: ALEX IRIGOYEN  
Contact Phone: (517) 631-1289

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VALLEY STANDARD (Continued)

U000250076

Date of Collection: 08/06/2006  
Accuracy: 15  
Accuracy Value Unit: METERS  
Horizontal Datum: NAD83  
Source: STATE OF MICHIGAN  
Point Line Area: POINT  
Desc Category: Not reported  
Method of Collection: Interpolation-Map  
Latitude: 43.60506  
Longitude: -84.15432

Tank ID: 1  
**Tank Status:** Removed from Ground  
Capacity: 10000  
Product: Gasoline  
Install Date: 03/27/1984  
Remove Date: 11/23/1998  
Tank Release Detection: Not reported  
Pipe Release Detection: Not reported  
Piping Material: Cathodically Protected  
Piping Type: Not reported  
Construction Material: Cathodically Protected Steel  
Impressed Device: No

Tank ID: 2  
**Tank Status:** Removed from Ground  
Capacity: 10000  
Product: Gasoline  
Install Date: 03/27/1984  
Remove Date: 11/23/1998  
Tank Release Detection: Not reported  
Pipe Release Detection: Not reported  
Piping Material: Cathodically Protected  
Piping Type: Not reported  
Construction Material: Cathodically Protected Steel  
Impressed Device: No

Tank ID: 3  
**Tank Status:** Removed from Ground  
Capacity: 10000  
Product: Gasoline  
Install Date: 03/27/1984  
Remove Date: 11/24/1998  
Tank Release Detection: Not reported  
Pipe Release Detection: Not reported  
Piping Material: Cathodically Protected  
Piping Type: Not reported  
Construction Material: Cathodically Protected Steel  
Impressed Device: No

Tank ID: 4  
**Tank Status:** Removed from Ground  
Capacity: 6000  
Product: Diesel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VALLEY STANDARD (Continued)**

**U000250076**

Install Date: 03/27/1966  
Remove Date: 11/24/1998  
Tank Release Detection: Not reported  
Pipe Release Detection: Not reported  
Piping Material: Cathodically Protected  
Piping Type: Not reported  
Construction Material: Asphalt Coated or Bare Steel  
Impressed Device: No

**AUL:**

Status: Recorded  
Site Name: Not reported  
Property: Valley Standard  
Land Use Restriction Type: RC  
Program Type: Part 213  
Program Support Assigned User: Nicholas Ekel  
Program Support Assigned Date: 09/27/2010  
Legal Description Of Property: Migrated  
Based On The Deq Ref #: 11121304012  
MDEQ Reference Number: RC-RRD-213-04-012  
Property Or Description Restricted Area: Migrated  
Lead Division: STD  
File Name Of Hyperlinked Legal Doc: U:\KERMIT\11121304012.PDF  
Mapped Polygons Area In Acres: 0.45000000000000001  
Mapped Polygons Area In Square Miles: 6.999999999999999E-4  
Date Data Entry Started: 04/14/2011  
Date Data Entry Finished: 04/14/2011  
Individual Or Staff Assoc With The Mapping: Nicholas Ekel  
Program Used To Map Restricted Features: ArcINFO 9.3 & IcoMAP 4.2  
Date Legal Paperwork Stamped/Filed/Register Of Deeds: 02/25/1999  
Commercial I Land Use Restriction: 0  
Commercial Ii Land Use Restriction: 0  
Commercial Iii Land Use Restriction: 0  
Commercial Iv Land Use Restriction: 0  
Industrial Land Use Restriction: 0  
Residential Land Use Restriction: 0  
Recreational Land Use Restriction: 0  
Multiple Land-Use Restrictions: 0  
Site Specific Restrictions: 0  
Groundwater Consumption Restrictions: 1  
Groundwater Contact Restrictions: 0  
Special Well Construction Requirements: 0  
Special Building Restrictions: 0  
Excavation And Soil Movement Restrictions: 0  
Soil Movement Requirements: 1  
There Is A Restriction On All Construction: 1  
Monitoring Well Protected, No Tampering Or Removal: 0  
There Is An Exposure Barrier In Place: 1  
There Is A Health And Safety Plan: 0  
There Is A Permanent Marker On The Site: 0  
Map Comments: 20100927 - LRUR is NOT mapped in KERMIT - Nick Ekel 20110414 - LRUR is mapped in KERMIT - Nick Ekel  
Comment: Request received on 5/19/2004

**INVENTORY:**

Bea Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VALLEY STANDARD (Continued)**

**U000250076**

Township: Not reported  
District: Saginaw Bay  
Data Source: Part 213  
Latitude: 43.60507  
Longitude: -84.15433

**WDS:**

Site Id: MIG000055761  
WMD Id: 428375  
Site Specific Name: B P OIL CO  
Mailing Address: 5001 BAY CITY RD  
Mailing City/State/Zip: 48642  
Mailing County: MIDLAND

**B5**  
**SSW**  
**1/4-1/2**  
**0.424 mi.**  
**2241 ft.**

**DOW BRINE GIV-16, 10P WELL LINE**  
**414 ROCKWELL DR**  
**MIDLAND, MI 48640**  
**Site 1 of 2 in cluster B**

**INVENTORY S120852224**  
**N/A**

**Relative:**  
**Higher**

**INVENTORY:**

Bea Number: Not reported  
Township: Midland Township  
District: Saginaw Bay  
Data Source: Part 201  
Latitude: 43.70088  
Longitude: -84.21526

**Actual:**  
**659 ft.**

**B6**  
**SSW**  
**1/4-1/2**  
**0.424 mi.**  
**2241 ft.**

**DOW BRINE GII-9, 10P INJECTION SITE**  
**414 ROCKWELL RD**  
**MIDLAND, MI 48640**  
**Site 2 of 2 in cluster B**

**INVENTORY S120852182**  
**N/A**

**Relative:**  
**Higher**

**INVENTORY:**

Bea Number: Not reported  
Township: Midland  
District: Saginaw Bay  
Data Source: Part 201  
Latitude: 43.59105  
Longitude: -84.17389

**Actual:**  
**659 ft.**

Count: 0 records.

ORPHAN SUMMARY

| City           | EDR ID | Site Name | Site Address | Zip | Database(s) |
|----------------|--------|-----------|--------------|-----|-------------|
| NO SITES FOUND |        |           |              |     |             |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

##### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 10/10/2017  | Source: EPA                            |
| Date Data Arrived at EDR: 11/03/2017    | Telephone: N/A                         |
| Date Made Active in Reports: 12/15/2017 | Last EDR Contact: 11/03/2017           |
| Number of Days to Update: 42            | Next Scheduled EDR Contact: 01/15/2018 |
|                                         | Data Release Frequency: Quarterly      |

##### **NPL Site Boundaries**

###### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

##### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 10/10/2017  | Source: EPA                            |
| Date Data Arrived at EDR: 11/03/2017    | Telephone: N/A                         |
| Date Made Active in Reports: 12/15/2017 | Last EDR Contact: 11/03/2017           |
| Number of Days to Update: 42            | Next Scheduled EDR Contact: 01/15/2018 |
|                                         | Data Release Frequency: Quarterly      |

##### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Date of Government Version: 10/15/1991  | Source: EPA                               |
| Date Data Arrived at EDR: 02/02/1994    | Telephone: 202-564-4267                   |
| Date Made Active in Reports: 03/30/1994 | Last EDR Contact: 08/15/2011              |
| Number of Days to Update: 56            | Next Scheduled EDR Contact: 11/28/2011    |
|                                         | Data Release Frequency: No Update Planned |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 10/10/2017  | Source: EPA                            |
| Date Data Arrived at EDR: 11/03/2017    | Telephone: N/A                         |
| Date Made Active in Reports: 12/15/2017 | Last EDR Contact: 11/03/2017           |
| Number of Days to Update: 42            | Next Scheduled EDR Contact: 01/15/2018 |
|                                         | Data Release Frequency: Quarterly      |

### ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 11/07/2016  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 01/05/2017    | Telephone: 703-603-8704                 |
| Date Made Active in Reports: 04/07/2017 | Last EDR Contact: 10/06/2017            |
| Number of Days to Update: 92            | Next Scheduled EDR Contact: 01/15/2018  |
|                                         | Data Release Frequency: Varies          |

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 07/11/2017  | Source: EPA                            |
| Date Data Arrived at EDR: 07/21/2017    | Telephone: 800-424-9346                |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 11/03/2017           |
| Number of Days to Update: 77            | Next Scheduled EDR Contact: 01/29/2018 |
|                                         | Data Release Frequency: Quarterly      |

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 07/11/2017  | Source: EPA                            |
| Date Data Arrived at EDR: 07/28/2017    | Telephone: 800-424-9346                |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 11/03/2017           |
| Number of Days to Update: 70            | Next Scheduled EDR Contact: 01/29/2018 |
|                                         | Data Release Frequency: Quarterly      |

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 09/13/2017  | Source: EPA                            |
| Date Data Arrived at EDR: 09/26/2017    | Telephone: 800-424-9346                |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 09/26/2017           |
| Number of Days to Update: 10            | Next Scheduled EDR Contact: 01/08/2018 |
|                                         | Data Release Frequency: Quarterly      |

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 09/13/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 09/26/2017    | Telephone: 312-886-6186                 |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 09/26/2017            |
| Number of Days to Update: 10            | Next Scheduled EDR Contact: 01/08/2018  |
|                                         | Data Release Frequency: Quarterly       |

### ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 09/13/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 09/26/2017    | Telephone: 312-886-6186                 |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 09/26/2017            |
| Number of Days to Update: 10            | Next Scheduled EDR Contact: 01/08/2018  |
|                                         | Data Release Frequency: Quarterly       |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 09/13/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 09/26/2017    | Telephone: 312-886-6186                 |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 09/26/2017            |
| Number of Days to Update: 10            | Next Scheduled EDR Contact: 01/08/2018  |
|                                         | Data Release Frequency: Quarterly       |

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 09/13/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 09/26/2017    | Telephone: 312-886-6186                 |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 09/26/2017            |
| Number of Days to Update: 10            | Next Scheduled EDR Contact: 01/08/2018  |
|                                         | Data Release Frequency: Quarterly       |

### ***Federal institutional controls / engineering controls registries***

#### LUCIS: Land Use Control Information System

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

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 05/22/2017  | Source: Department of the Navy         |
| Date Data Arrived at EDR: 06/13/2017    | Telephone: 843-820-7326                |
| Date Made Active in Reports: 09/15/2017 | Last EDR Contact: 11/08/2017           |
| Number of Days to Update: 94            | Next Scheduled EDR Contact: 02/26/2018 |
|                                         | Data Release Frequency: Varies         |

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 08/10/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 08/30/2017    | Telephone: 703-603-0695                 |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 11/27/2017            |
| Number of Days to Update: 44            | Next Scheduled EDR Contact: 03/12/2018  |
|                                         | Data Release Frequency: Varies          |

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 08/10/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 08/30/2017    | Telephone: 703-603-0695                 |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 11/27/2017            |
| Number of Days to Update: 44            | Next Scheduled EDR Contact: 03/12/2018  |
|                                         | Data Release Frequency: Varies          |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **Federal ERNS list**

ERNS: Emergency Response Notification System

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

Date of Government Version: 09/18/2017

Date Data Arrived at EDR: 09/21/2017

Date Made Active in Reports: 10/13/2017

Number of Days to Update: 22

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/21/2017

Next Scheduled EDR Contact: 01/08/2018

Data Release Frequency: Quarterly

### **State- and tribal - equivalent CERCLIS**

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

Date of Government Version: N/A

Date Data Arrived at EDR: 10/31/2013

Date Made Active in Reports: 11/20/2013

Number of Days to Update: 20

Source: Dept of Environmental Quality

Telephone: 517-284-5103

Last EDR Contact: 10/20/2017

Next Scheduled EDR Contact: 02/05/2018

Data Release Frequency: No Update Planned

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

SWF/LF: Solid Waste Facilities Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/26/2017

Date Data Arrived at EDR: 10/27/2017

Date Made Active in Reports: 12/08/2017

Number of Days to Update: 42

Source: Dept of Environmental Quality

Telephone: 517-335-4035

Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 01/08/2018

Data Release Frequency: Semi-Annually

### **State and tribal leaking storage tank lists**

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/20/2017

Date Data Arrived at EDR: 10/05/2017

Date Made Active in Reports: 12/08/2017

Number of Days to Update: 64

Source: Dept of Environmental Quality

Telephone: 517-373-9837

Last EDR Contact: 10/05/2017

Next Scheduled EDR Contact: 11/27/2017

Data Release Frequency: Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/01/2017

Date Data Arrived at EDR: 07/27/2017

Date Made Active in Reports: 10/13/2017

Number of Days to Update: 78

Source: EPA Region 8

Telephone: 303-312-6271

Last EDR Contact: 10/27/2017

Next Scheduled EDR Contact: 02/05/2018

Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/13/2017  
Date Data Arrived at EDR: 07/27/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 78

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 10/27/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2017  
Date Data Arrived at EDR: 07/27/2017  
Date Made Active in Reports: 10/06/2017  
Number of Days to Update: 71

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 10/27/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/24/2017  
Date Data Arrived at EDR: 07/27/2017  
Date Made Active in Reports: 10/06/2017  
Number of Days to Update: 71

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 10/27/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/25/2017  
Date Data Arrived at EDR: 11/07/2017  
Date Made Active in Reports: 12/08/2017  
Number of Days to Update: 31

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 11/07/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land  
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/26/2017  
Date Data Arrived at EDR: 07/27/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 78

Source: EPA, Region 5  
Telephone: 312-886-7439  
Last EDR Contact: 10/27/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/14/2017  
Date Data Arrived at EDR: 07/27/2017  
Date Made Active in Reports: 10/06/2017  
Number of Days to Update: 71

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 10/27/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016  
Date Data Arrived at EDR: 01/27/2017  
Date Made Active in Reports: 05/05/2017  
Number of Days to Update: 98

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 10/27/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Semi-Annually

***State and tribal registered storage tank lists***

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 05/15/2017  | Source: FEMA                           |
| Date Data Arrived at EDR: 05/30/2017    | Telephone: 202-646-5797                |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 10/13/2017           |
| Number of Days to Update: 136           | Next Scheduled EDR Contact: 01/22/2018 |
|                                         | Data Release Frequency: Varies         |

### UST: Underground Storage Tank Facility List

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

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Date of Government Version: 10/21/2016  | Source: Department of Licensing & Regulatory Affairs |
| Date Data Arrived at EDR: 02/16/2017    | Telephone: 517-373-1820                              |
| Date Made Active in Reports: 05/03/2017 | Last EDR Contact: 11/10/2017                         |
| Number of Days to Update: 76            | Next Scheduled EDR Contact: 02/26/2018               |
|                                         | Data Release Frequency: Annually                     |

### UST 2: Underground Storage Tank Listing

A listing of underground storage tank site locations that have unknown owner information.

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Date of Government Version: 10/18/2016  | Source: Department of Licensing & Regulatory Affairs |
| Date Data Arrived at EDR: 10/21/2016    | Telephone: 517-373-1820                              |
| Date Made Active in Reports: 01/30/2017 | Last EDR Contact: 10/11/2017                         |
| Number of Days to Update: 101           | Next Scheduled EDR Contact: 01/29/2018               |
|                                         | Data Release Frequency: Annually                     |

### AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Date of Government Version: 08/14/2017  | Source: Department of Licensing & Regulatory Affairs |
| Date Data Arrived at EDR: 08/15/2017    | Telephone: 517-373-1820                              |
| Date Made Active in Reports: 10/05/2017 | Last EDR Contact: 11/10/2017                         |
| Number of Days to Update: 51            | Next Scheduled EDR Contact: 02/26/2018               |
|                                         | Data Release Frequency: No Update Planned            |

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 04/14/2017  | Source: EPA, Region 1                  |
| Date Data Arrived at EDR: 07/27/2017    | Telephone: 617-918-1313                |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 10/27/2017           |
| Number of Days to Update: 71            | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Varies         |

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 10/14/2016  | Source: EPA Region 4                   |
| Date Data Arrived at EDR: 01/27/2017    | Telephone: 404-562-9424                |
| Date Made Active in Reports: 05/05/2017 | Last EDR Contact: 10/27/2017           |
| Number of Days to Update: 98            | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Semi-Annually  |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 04/26/2017  | Source: EPA Region 5                   |
| Date Data Arrived at EDR: 07/27/2017    | Telephone: 312-886-6136                |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 10/27/2017           |
| Number of Days to Update: 71            | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Varies         |

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 04/24/2017  | Source: EPA Region 6                   |
| Date Data Arrived at EDR: 07/27/2017    | Telephone: 214-665-7591                |
| Date Made Active in Reports: 12/08/2017 | Last EDR Contact: 10/27/2017           |
| Number of Days to Update: 134           | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Varies         |

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 05/02/2017  | Source: EPA Region 7                   |
| Date Data Arrived at EDR: 07/27/2017    | Telephone: 913-551-7003                |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 10/27/2017           |
| Number of Days to Update: 71            | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Varies         |

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 05/01/2017  | Source: EPA Region 8                   |
| Date Data Arrived at EDR: 07/27/2017    | Telephone: 303-312-6137                |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 10/27/2017           |
| Number of Days to Update: 78            | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Varies         |

### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 04/13/2017  | Source: EPA Region 9                   |
| Date Data Arrived at EDR: 07/27/2017    | Telephone: 415-972-3368                |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 10/27/2017           |
| Number of Days to Update: 78            | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Varies         |

### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 04/25/2017  | Source: EPA Region 10                  |
| Date Data Arrived at EDR: 07/27/2017    | Telephone: 206-553-2857                |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 10/27/2017           |
| Number of Days to Update: 78            | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Varies         |

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### AUL: Engineering and Institutional Controls

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

Date of Government Version: 08/25/2017  
Date Data Arrived at EDR: 08/25/2017  
Date Made Active in Reports: 09/26/2017  
Number of Days to Update: 32

Source: Dept of Environmental Quality  
Telephone: 517-373-4828  
Last EDR Contact: 11/21/2017  
Next Scheduled EDR Contact: 03/12/2018  
Data Release Frequency: Varies

### **State and tribal voluntary cleanup sites**

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 12/20/2017  
Next Scheduled EDR Contact: 04/09/2018  
Data Release Frequency: Varies

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

### **State and tribal Brownfields sites**

#### BROWNFIELDS: Brownfields and USTfield Site Database

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

Date of Government Version: 01/15/2016  
Date Data Arrived at EDR: 02/02/2016  
Date Made Active in Reports: 04/04/2016  
Number of Days to Update: 62

Source: Dept of Environmental Quality  
Telephone: 517-373-4805  
Last EDR Contact: 10/27/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Varies

#### BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detroit Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007  
Date Data Arrived at EDR: 04/10/2007  
Date Made Active in Reports: 05/01/2007  
Number of Days to Update: 21

Source: Economic Development Corporation  
Telephone: 888-522-0103  
Last EDR Contact: 11/21/2017  
Next Scheduled EDR Contact: 03/12/2018  
Data Release Frequency: Varies

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/21/2017  
Date Data Arrived at EDR: 09/20/2017  
Date Made Active in Reports: 12/08/2017  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 12/19/2017  
Next Scheduled EDR Contact: 04/02/2018  
Data Release Frequency: Semi-Annually

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

#### **HIST LF: Inactive Solid Waste Facilities**

The database contains historical information and is no longer updated.

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

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

#### **SWRCY: Recycling Facilities**

A listing of recycling center locations.

Date of Government Version: 09/25/2017  
Date Data Arrived at EDR: 09/26/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 2

Source: Dept of Environmental Quality  
Telephone: 517-241-5719  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Varies

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

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 10/30/2017  
Next Scheduled EDR Contact: 02/12/2018  
Data Release Frequency: Varies

#### **ODI: Open Dump Inventory**

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

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

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

#### **DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations**

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

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

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 10/20/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: No Update Planned

#### **IHS OPEN DUMPS: Open Dumps on Indian Land**

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 11/03/2017  
Next Scheduled EDR Contact: 02/12/2018  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

### **US HIST CDL: National Clandestine Laboratory Register**

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/13/2017

Date Data Arrived at EDR: 09/06/2017

Date Made Active in Reports: 10/06/2017

Number of Days to Update: 30

Source: Drug Enforcement Administration

Telephone: 202-307-1000

Last EDR Contact: 11/28/2017

Next Scheduled EDR Contact: 03/12/2018

Data Release Frequency: No Update Planned

### **PART 201: Part 201 Site List**

A Part 201 Listed site is a location that has been evaluated and scored by the DEQ using the Part 201 scoring model. The location is or includes a "facility" as defined by Part 201, where there has been a release of a hazardous substance(s) in excess of the Part 201 residential criteria, and/or where corrective actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use. The Part 201 List does not include all of the sites of contamination that are subject to regulation under Part 201 because owners are not required to inform the DEQ about the sites and can pursue cleanup independently. Sites of environmental contamination that are not known to DEQ are not on the list, nor are sites with releases that resulted in low environmental impact.

Date of Government Version: 10/01/2013

Date Data Arrived at EDR: 10/03/2014

Date Made Active in Reports: 10/03/2014

Number of Days to Update: 0

Source: Department of Environmental Quality

Telephone: 517-284-5103

Last EDR Contact: 10/20/2017

Next Scheduled EDR Contact: 02/05/2018

Data Release Frequency: No Update Planned

### **INVENTORY: Inventory of Facilities**

The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

Date of Government Version: 10/24/2017

Date Data Arrived at EDR: 10/25/2017

Date Made Active in Reports: 12/08/2017

Number of Days to Update: 44

Source: Department of Environmental Quality

Telephone: 517-284-5136

Last EDR Contact: 10/25/2017

Next Scheduled EDR Contact: 02/05/2018

Data Release Frequency: Quarterly

### **CDL: Clandestine Drug Lab Listing**

A listing of clandestine drug lab locations.

Date of Government Version: 12/31/2016

Date Data Arrived at EDR: 02/17/2017

Date Made Active in Reports: 04/18/2017

Number of Days to Update: 60

Source: Department of Community Health

Telephone: 517-373-3740

Last EDR Contact: 10/23/2017

Next Scheduled EDR Contact: 02/05/2018

Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### DEL PART 201: Delisted List of Contaminated Sites

A deleted site has been removed from the Part 201 List because information known to the DEQ at the time of the evaluation does not support inclusion on the Part 201 List. This designation is often applied to sites where changes in cleanup criteria resulted in a determination that the site no longer exceeds any applicable cleanup criterion.

A delisted site has been removed from the Part 201 List because response actions have reduced the levels of contaminants to concentrations which meet or are below the criteria for unrestricted residential use.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 08/01/2013  | Source: Dept of Environmental Quality  |
| Date Data Arrived at EDR: 08/01/2013    | Telephone: 517-373-9541                |
| Date Made Active in Reports: 09/11/2013 | Last EDR Contact: 10/20/2017           |
| Number of Days to Update: 41            | Next Scheduled EDR Contact: 02/05/2018 |
|                                         | Data Release Frequency: Varies         |

### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 07/13/2017  | Source: Drug Enforcement Administration |
| Date Data Arrived at EDR: 09/06/2017    | Telephone: 202-307-1000                 |
| Date Made Active in Reports: 10/06/2017 | Last EDR Contact: 11/28/2017            |
| Number of Days to Update: 30            | Next Scheduled EDR Contact: 03/12/2018  |
|                                         | Data Release Frequency: Quarterly       |

### Local Land Records

#### LIENS: Lien List

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC \* 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 07/25/2017  | Source: Dept of Environmental Quality  |
| Date Data Arrived at EDR: 08/08/2017    | Telephone: 517-241-7603                |
| Date Made Active in Reports: 09/26/2017 | Last EDR Contact: 10/20/2017           |
| Number of Days to Update: 49            | Next Scheduled EDR Contact: 01/29/2018 |
|                                         | Data Release Frequency: Varies         |

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 07/11/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 07/26/2017    | Telephone: 202-564-6023                 |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 11/03/2017            |
| Number of Days to Update: 79            | Next Scheduled EDR Contact: 02/05/2018  |
|                                         | Data Release Frequency: Semi-Annually   |

### Records of Emergency Release Reports

#### HMIRS: Hazardous Materials Information Reporting System

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

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Date of Government Version: 09/21/2017  | Source: U.S. Department of Transportation |
| Date Data Arrived at EDR: 09/21/2017    | Telephone: 202-366-4555                   |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 09/21/2017              |
| Number of Days to Update: 22            | Next Scheduled EDR Contact: 01/08/2018    |
|                                         | Data Release Frequency: Quarterly         |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### PEAS: Pollution Emergency Alerting System

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

Date of Government Version: 09/11/2017

Date Data Arrived at EDR: 09/19/2017

Date Made Active in Reports: 09/27/2017

Number of Days to Update: 8

Source: Dept of Environmental Quality

Telephone: 517-373-8427

Last EDR Contact: 10/23/2017

Next Scheduled EDR Contact: 02/05/2018

Data Release Frequency: Quarterly

### Other Ascertainable Records

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

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

Date of Government Version: 09/13/2017

Date Data Arrived at EDR: 09/26/2017

Date Made Active in Reports: 10/06/2017

Number of Days to Update: 10

Source: Environmental Protection Agency

Telephone: 312-886-6186

Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018

Data Release Frequency: Quarterly

#### FUDS: Formerly Used Defense Sites

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

Date of Government Version: 01/31/2015

Date Data Arrived at EDR: 07/08/2015

Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285

Last EDR Contact: 11/22/2017

Next Scheduled EDR Contact: 03/05/2018

Data Release Frequency: Varies

#### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005

Date Data Arrived at EDR: 11/10/2006

Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747

Last EDR Contact: 10/13/2017

Next Scheduled EDR Contact: 01/22/2018

Data Release Frequency: Semi-Annually

#### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005

Date Data Arrived at EDR: 02/06/2006

Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey

Telephone: 888-275-8747

Last EDR Contact: 10/11/2017

Next Scheduled EDR Contact: 01/22/2018

Data Release Frequency: N/A

#### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 11/17/2017  
Next Scheduled EDR Contact: 02/26/2018  
Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/17/2017  
Date Data Arrived at EDR: 11/01/2017  
Date Made Active in Reports: 12/08/2017  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 11/01/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 11/06/2017  
Next Scheduled EDR Contact: 02/19/2018  
Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 6

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 11/09/2017  
Next Scheduled EDR Contact: 02/19/2018  
Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 01/15/2015  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 14

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 09/22/2017  
Next Scheduled EDR Contact: 01/01/2018  
Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 11/24/2015  
Date Made Active in Reports: 04/05/2016  
Number of Days to Update: 133

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 11/20/2017  
Next Scheduled EDR Contact: 03/05/2018  
Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 10/27/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/27/2017  
Date Data Arrived at EDR: 10/12/2017  
Date Made Active in Reports: 10/20/2017  
Number of Days to Update: 8

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 12/08/2017  
Next Scheduled EDR Contact: 03/19/2018  
Data Release Frequency: Annually

### RMP: Risk Management Plans

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

Date of Government Version: 11/02/2017  
Date Data Arrived at EDR: 11/17/2017  
Date Made Active in Reports: 12/08/2017  
Number of Days to Update: 21

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 10/23/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995  
Date Data Arrived at EDR: 07/03/1995  
Date Made Active in Reports: 08/07/1995  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4104  
Last EDR Contact: 06/02/2008  
Next Scheduled EDR Contact: 09/01/2008  
Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 10/25/2013  | Source: EPA                            |
| Date Data Arrived at EDR: 10/17/2014    | Telephone: 202-564-6023                |
| Date Made Active in Reports: 10/20/2014 | Last EDR Contact: 11/03/2017           |
| Number of Days to Update: 3             | Next Scheduled EDR Contact: 02/19/2018 |
|                                         | Data Release Frequency: Quarterly      |

### PADS: PCB Activity Database System

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

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 06/01/2017  | Source: EPA                            |
| Date Data Arrived at EDR: 06/09/2017    | Telephone: 202-566-0500                |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 10/13/2017           |
| Number of Days to Update: 126           | Next Scheduled EDR Contact: 01/22/2018 |
|                                         | Data Release Frequency: Annually       |

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 11/18/2016  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 11/23/2016    | Telephone: 202-564-2501                 |
| Date Made Active in Reports: 02/10/2017 | Last EDR Contact: 10/11/2017            |
| Number of Days to Update: 79            | Next Scheduled EDR Contact: 01/22/2018  |
|                                         | Data Release Frequency: Quarterly       |

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

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

|                                         |                                                                   |
|-----------------------------------------|-------------------------------------------------------------------|
| Date of Government Version: 04/09/2009  | Source: EPA/Office of Prevention, Pesticides and Toxic Substances |
| Date Data Arrived at EDR: 04/16/2009    | Telephone: 202-566-1667                                           |
| Date Made Active in Reports: 05/11/2009 | Last EDR Contact: 08/18/2017                                      |
| Number of Days to Update: 25            | Next Scheduled EDR Contact: 12/04/2017                            |
|                                         | Data Release Frequency: Quarterly                                 |

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

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 04/09/2009  | Source: EPA                            |
| Date Data Arrived at EDR: 04/16/2009    | Telephone: 202-566-1667                |
| Date Made Active in Reports: 05/11/2009 | Last EDR Contact: 08/18/2017           |
| Number of Days to Update: 25            | Next Scheduled EDR Contact: 12/04/2017 |
|                                         | Data Release Frequency: Quarterly      |

### MLTS: Material Licensing Tracking System

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

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 08/30/2016  | Source: Nuclear Regulatory Commission  |
| Date Data Arrived at EDR: 09/08/2016    | Telephone: 301-415-7169                |
| Date Made Active in Reports: 10/21/2016 | Last EDR Contact: 10/16/2017           |
| Number of Days to Update: 43            | Next Scheduled EDR Contact: 11/20/2017 |
|                                         | Data Release Frequency: Quarterly      |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 12/31/2005  | Source: Department of Energy           |
| Date Data Arrived at EDR: 08/07/2009    | Telephone: 202-586-8719                |
| Date Made Active in Reports: 10/22/2009 | Last EDR Contact: 12/05/2017           |
| Number of Days to Update: 76            | Next Scheduled EDR Contact: 03/19/2018 |
|                                         | Data Release Frequency: Varies         |

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 07/01/2014  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 09/10/2014    | Telephone: N/A                          |
| Date Made Active in Reports: 10/20/2014 | Last EDR Contact: 12/08/2017            |
| Number of Days to Update: 40            | Next Scheduled EDR Contact: 03/19/2018  |
|                                         | Data Release Frequency: Varies          |

### PCB TRANSFORMER: PCB Transformer Registration Database

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

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 05/24/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 11/30/2017    | Telephone: 202-566-0517                 |
| Date Made Active in Reports: 12/15/2017 | Last EDR Contact: 10/26/2017            |
| Number of Days to Update: 15            | Next Scheduled EDR Contact: 02/05/2018  |
|                                         | Data Release Frequency: Varies          |

### RADINFO: Radiation Information Database

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

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 10/02/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 10/05/2017    | Telephone: 202-343-9775                 |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 10/05/2017            |
| Number of Days to Update: 8             | Next Scheduled EDR Contact: 01/15/2018  |
|                                         | Data Release Frequency: Quarterly       |

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Date of Government Version: 10/19/2006  | Source: Environmental Protection Agency   |
| Date Data Arrived at EDR: 03/01/2007    | Telephone: 202-564-2501                   |
| Date Made Active in Reports: 04/10/2007 | Last EDR Contact: 12/17/2007              |
| Number of Days to Update: 40            | Next Scheduled EDR Contact: 03/17/2008    |
|                                         | Data Release Frequency: No Update Planned |

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 10/31/2017  
Next Scheduled EDR Contact: 02/12/2018  
Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 06/30/2017  
Date Data Arrived at EDR: 08/03/2017  
Date Made Active in Reports: 10/20/2017  
Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 12/18/2017  
Next Scheduled EDR Contact: 04/02/2018  
Data Release Frequency: Varies

### BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 11/20/2017  
Next Scheduled EDR Contact: 03/05/2018  
Data Release Frequency: Biennially

### INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 10/11/2017  
Next Scheduled EDR Contact: 01/22/2018  
Data Release Frequency: Semi-Annually

### FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016  
Date Data Arrived at EDR: 12/27/2016  
Date Made Active in Reports: 02/17/2017  
Number of Days to Update: 52

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 11/02/2017  
Next Scheduled EDR Contact: 02/19/2018  
Data Release Frequency: Varies

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/23/2017  
Date Data Arrived at EDR: 10/11/2017  
Date Made Active in Reports: 11/03/2017  
Number of Days to Update: 23

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 11/22/2017  
Next Scheduled EDR Contact: 03/05/2018  
Data Release Frequency: Varies

### LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/10/2017  
Date Data Arrived at EDR: 11/03/2017  
Date Made Active in Reports: 12/15/2017  
Number of Days to Update: 42

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 11/03/2017  
Next Scheduled EDR Contact: 01/15/2018  
Data Release Frequency: Varies

### LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust.

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US MINES: Mines Master Index File

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

Date of Government Version: 07/31/2017  
Date Data Arrived at EDR: 08/30/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 11/28/2017  
Next Scheduled EDR Contact: 03/12/2018  
Data Release Frequency: Semi-Annually

### US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 12/01/2017  
Next Scheduled EDR Contact: 03/12/2018  
Data Release Frequency: Varies

### US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 12/01/2017  
Next Scheduled EDR Contact: 03/12/2018  
Data Release Frequency: Varies

### ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/25/2017  
Date Data Arrived at EDR: 09/26/2017  
Date Made Active in Reports: 10/20/2017  
Number of Days to Update: 24

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 12/19/2017  
Next Scheduled EDR Contact: 03/26/2018  
Data Release Frequency: Quarterly

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/23/2017  
Date Data Arrived at EDR: 09/06/2017  
Date Made Active in Reports: 09/15/2017  
Number of Days to Update: 9

Source: EPA  
Telephone: (312) 353-2000  
Last EDR Contact: 12/05/2017  
Next Scheduled EDR Contact: 03/19/2018  
Data Release Frequency: Quarterly

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2016  
Date Data Arrived at EDR: 06/02/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 133

Source: Department of Defense  
Telephone: 703-704-1564  
Last EDR Contact: 10/16/2017  
Next Scheduled EDR Contact: 01/29/2018  
Data Release Frequency: Varies

### ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2017  
Date Data Arrived at EDR: 09/06/2017  
Date Made Active in Reports: 10/20/2017  
Number of Days to Update: 44

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 12/05/2017  
Next Scheduled EDR Contact: 03/19/2018  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Date of Government Version: 02/13/2017  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/15/2017    | Telephone: 202-564-0527                 |
| Date Made Active in Reports: 11/03/2017 | Last EDR Contact: 11/21/2017            |
| Number of Days to Update: 261           | Next Scheduled EDR Contact: 03/12/2018  |
|                                         | Data Release Frequency: Varies          |

### FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 08/17/2017  | Source: EPA                            |
| Date Data Arrived at EDR: 08/17/2017    | Telephone: 800-385-6164                |
| Date Made Active in Reports: 09/15/2017 | Last EDR Contact: 11/20/2017           |
| Number of Days to Update: 29            | Next Scheduled EDR Contact: 03/05/2018 |
|                                         | Data Release Frequency: Quarterly      |

### AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 09/28/2017  | Source: Dept of Environmental Quality  |
| Date Data Arrived at EDR: 10/02/2017    | Telephone: 517-373-7074                |
| Date Made Active in Reports: 10/13/2017 | Last EDR Contact: 12/13/2017           |
| Number of Days to Update: 11            | Next Scheduled EDR Contact: 04/02/2018 |
|                                         | Data Release Frequency: Annually       |

### ASBESTOS: Asbestos Notification Listing

Asbestos

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Date of Government Version: 10/31/2017  | Source: Department of Licensing & Regulatory Affairs |
| Date Data Arrived at EDR: 11/07/2017    | Telephone: 517-284-7699                              |
| Date Made Active in Reports: 12/08/2017 | Last EDR Contact: 11/01/2017                         |
| Number of Days to Update: 31            | Next Scheduled EDR Contact: 03/12/2018               |
|                                         | Data Release Frequency: Quarterly                    |

### BEA: Baseline Environmental Assessment Database

A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Date of Government Version: 08/21/2013  | Source: Dept of Environmental Quality     |
| Date Data Arrived at EDR: 08/23/2013    | Telephone: 517-373-9541                   |
| Date Made Active in Reports: 09/12/2013 | Last EDR Contact: 11/08/2017              |
| Number of Days to Update: 20            | Next Scheduled EDR Contact: 02/26/2018    |
|                                         | Data Release Frequency: No Update Planned |

### COAL ASH: Coal Ash Disposal Sites

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

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Date of Government Version: 10/20/2016  | Source: Dept of Environmental Quality  |
| Date Data Arrived at EDR: 02/02/2017    | Telephone: 586-753-3754                |
| Date Made Active in Reports: 04/20/2017 | Last EDR Contact: 09/28/2017           |
| Number of Days to Update: 77            | Next Scheduled EDR Contact: 01/15/2018 |
|                                         | Data Release Frequency: Varies         |

### DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/20/2017  
Date Data Arrived at EDR: 10/20/2017  
Date Made Active in Reports: 10/24/2017  
Number of Days to Update: 4

Source: Dept of Environmental Quality  
Telephone: 517-335-4586  
Last EDR Contact: 10/16/2017  
Next Scheduled EDR Contact: 01/29/2018  
Data Release Frequency: Quarterly

### Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 10/04/2017  
Date Data Arrived at EDR: 10/06/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 7

Source: Dept of Environmental Quality  
Telephone: 517-335-6610  
Last EDR Contact: 09/28/2017  
Next Scheduled EDR Contact: 01/15/2018  
Data Release Frequency: Semi-Annually

### Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/05/2011  
Date Data Arrived at EDR: 01/07/2011  
Date Made Active in Reports: 02/14/2011  
Number of Days to Update: 38

Source: Dept of Environmental Quality  
Telephone: 517-335-4034  
Last EDR Contact: 12/20/2017  
Next Scheduled EDR Contact: 04/09/2018  
Data Release Frequency: Varies

### FINANCIAL ASSURANCE 3: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities.

Date of Government Version: 08/24/2017  
Date Data Arrived at EDR: 08/24/2017  
Date Made Active in Reports: 10/27/2017  
Number of Days to Update: 64

Source: Department of Licensing & Regulatory Affairs  
Telephone: 517-335-7279  
Last EDR Contact: 11/17/2017  
Next Scheduled EDR Contact: 01/15/2018  
Data Release Frequency: Varies

### LEAD CERT: Lead Safe Housing Registry

A listing of Michigan properties included in the Lead Safe Housing Registry.

Date of Government Version: 09/15/2015  
Date Data Arrived at EDR: 09/16/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 14

Source: Department of Community Health  
Telephone: 517-335-9699  
Last EDR Contact: 12/01/2017  
Next Scheduled EDR Contact: 03/19/2018  
Data Release Frequency: Quarterly

### NPDES: List of Active NPDES Permits

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

Date of Government Version: 09/27/2017  
Date Data Arrived at EDR: 10/05/2017  
Date Made Active in Reports: 12/11/2017  
Number of Days to Update: 67

Source: Dept of Environmental Quality  
Telephone: 517-241-1300  
Last EDR Contact: 10/05/2017  
Next Scheduled EDR Contact: 01/15/2018  
Data Release Frequency: Varies

### UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 11/07/2017  
Date Data Arrived at EDR: 11/09/2017  
Date Made Active in Reports: 11/29/2017  
Number of Days to Update: 20

Source: Dept of Environmental Quality  
Telephone: 517-241-1515  
Last EDR Contact: 10/23/2017  
Next Scheduled EDR Contact: 02/05/2018  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### WDS: Waste Data System

The Waste Data System (WDS) tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs.

Date of Government Version: 02/01/2017

Date Data Arrived at EDR: 02/03/2017

Date Made Active in Reports: 04/20/2017

Number of Days to Update: 76

Source: Dept of Environmental Quality

Telephone: 517-284-6562

Last EDR Contact: 11/15/2017

Next Scheduled EDR Contact: 03/05/2018

Data Release Frequency: Quarterly

### **EDR HIGH RISK HISTORICAL RECORDS**

#### **EDR Exclusive Records**

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

#### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR RECOVERED GOVERNMENT ARCHIVES

### ***Exclusive Recovered Govt. Archives***

#### **RGA PART 201: Recovered Government Archive State Hazardous Waste Facilities List**

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A

Source: Department of Environmental Quality

Date Data Arrived at EDR: 07/01/2013

Telephone: N/A

Date Made Active in Reports: 12/24/2013

Last EDR Contact: 06/01/2012

Number of Days to Update: 176

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

#### **RGA LF: Recovered Government Archive Solid Waste Facilities List**

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A

Source: Department of Environmental Quality

Date Data Arrived at EDR: 07/01/2013

Telephone: N/A

Date Made Active in Reports: 01/13/2014

Last EDR Contact: 06/01/2012

Number of Days to Update: 196

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

#### **RGA LUST: Recovered Government Archive Leaking Underground Storage Tank**

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A

Source: Department of Environmental Quality

Date Data Arrived at EDR: 07/01/2013

Telephone: N/A

Date Made Active in Reports: 12/24/2013

Last EDR Contact: 06/01/2012

Number of Days to Update: 176

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

## **OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### **CT MANIFEST: Hazardous Waste Manifest Data**

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/11/2017

Source: Department of Energy & Environmental Protection

Date Data Arrived at EDR: 11/14/2017

Telephone: 860-424-3375

Date Made Active in Reports: 12/18/2017

Last EDR Contact: 11/14/2017

Number of Days to Update: 34

Next Scheduled EDR Contact: 02/26/2018

Data Release Frequency: No Update Planned

#### **NJ MANIFEST: Manifest Information**

Hazardous waste manifest information.

Date of Government Version: 12/31/2016

Source: Department of Environmental Protection

Date Data Arrived at EDR: 04/11/2017

Telephone: N/A

Date Made Active in Reports: 07/27/2017

Last EDR Contact: 10/05/2017

Number of Days to Update: 107

Next Scheduled EDR Contact: 01/22/2018

Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### NY MANIFEST: Facility and Manifest Data

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

Date of Government Version: 10/01/2017  
Date Data Arrived at EDR: 11/01/2017  
Date Made Active in Reports: 11/13/2017  
Number of Days to Update: 12

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 11/01/2017  
Next Scheduled EDR Contact: 02/12/2018  
Data Release Frequency: Quarterly

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 07/25/2017  
Date Made Active in Reports: 09/25/2017  
Number of Days to Update: 62

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 10/16/2017  
Next Scheduled EDR Contact: 01/29/2018  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 06/19/2015  
Date Made Active in Reports: 07/15/2015  
Number of Days to Update: 26

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 11/16/2017  
Next Scheduled EDR Contact: 03/05/2018  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 04/13/2017  
Date Made Active in Reports: 07/14/2017  
Number of Days to Update: 92

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 12/11/2017  
Next Scheduled EDR Contact: 03/26/2018  
Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

### Electric Power Transmission Line Data

Source: PennWell Corporation

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

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

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

### Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

BEST WESTERN HOTEL  
5221 BAY CITY ROAD  
MIDLAND, MI 48642

### **TARGET PROPERTY COORDINATES**

|                                |                            |
|--------------------------------|----------------------------|
| Latitude (North):              | 43.605587 - 43° 36' 20.11" |
| Longitude (West):              | 84.163322 - 84° 9' 47.96"  |
| Universal Transverse Mercator: | Zone 16                    |
| UTM X (Meters):                | 728940.6                   |
| UTM Y (Meters):                | 4831762.5                  |
| Elevation:                     | 654 ft. above sea level    |

### **USGS TOPOGRAPHIC MAP**

|                      |                           |
|----------------------|---------------------------|
| Target Property Map: | 6068863 MIDLAND SOUTH, MI |
| Version Date:        | 2014                      |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

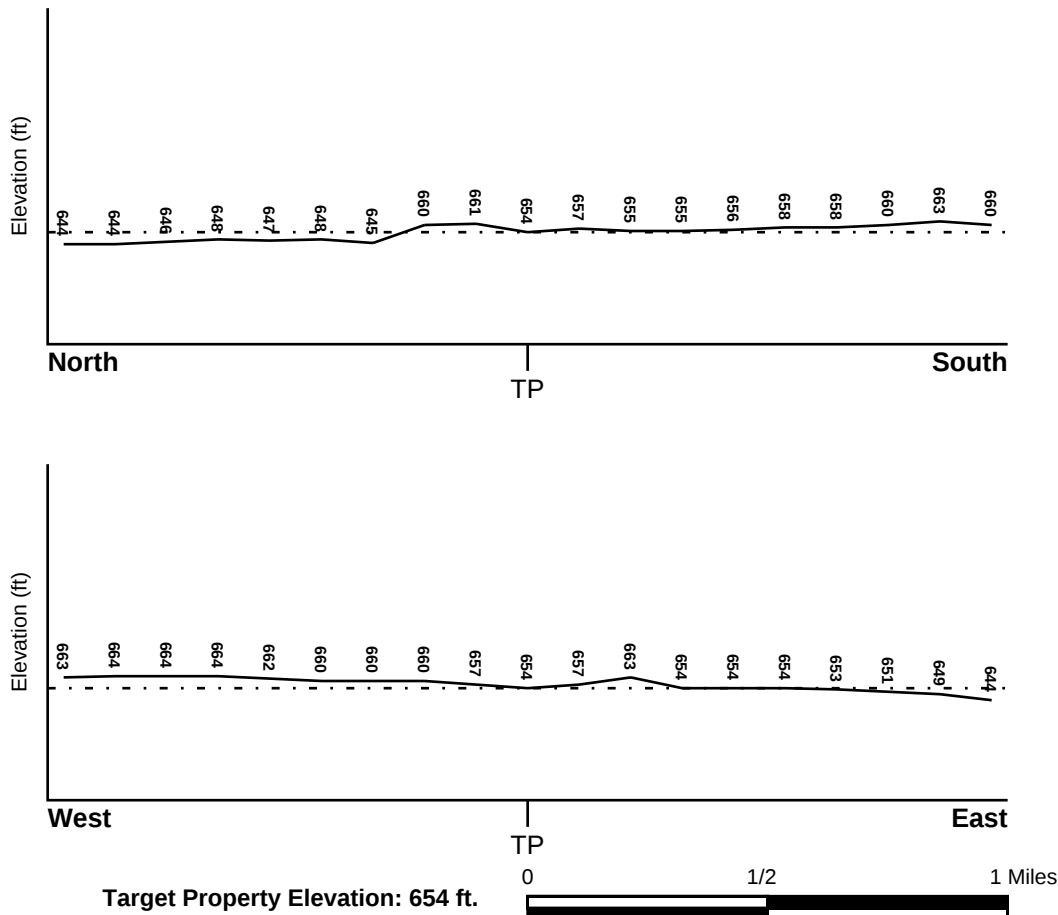
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

### 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>Flood Plain Panel at Target Property</u> | <u>FEMA Source Type</u> |
|---------------------------------------------|-------------------------|
| 2601400002D                                 | FEMA Q3 Flood data      |
| <u>Additional Panels in search area:</u>    | <u>FEMA Source Type</u> |
| 26017C0155D                                 | FEMA Q3 Flood data      |
| 2601400001D                                 | FEMA Q3 Flood data      |
| 26111C0283E                                 | FEMA FIRM Flood data    |

### NATIONAL WETLAND INVENTORY

| <u>NWI Quad at Target Property</u> | <u>NWI Electronic Data Coverage</u>            |
|------------------------------------|------------------------------------------------|
| MIDLAND SOUTH                      | YES - refer to the Overview Map and Detail Map |

### HYDROGEOLOGIC INFORMATION

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

#### *Site-Specific Hydrogeological Data\*:*

|                |            |
|----------------|------------|
| Search Radius: | 1.25 miles |
| Status:        | Not found  |

### AQUIFLOW®

Search Radius: 1.000 Mile.

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

| <u>MAP ID</u> | <u>LOCATION FROM TP</u> | <u>GENERAL DIRECTION GROUNDWATER FLOW</u> |
|---------------|-------------------------|-------------------------------------------|
| 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**

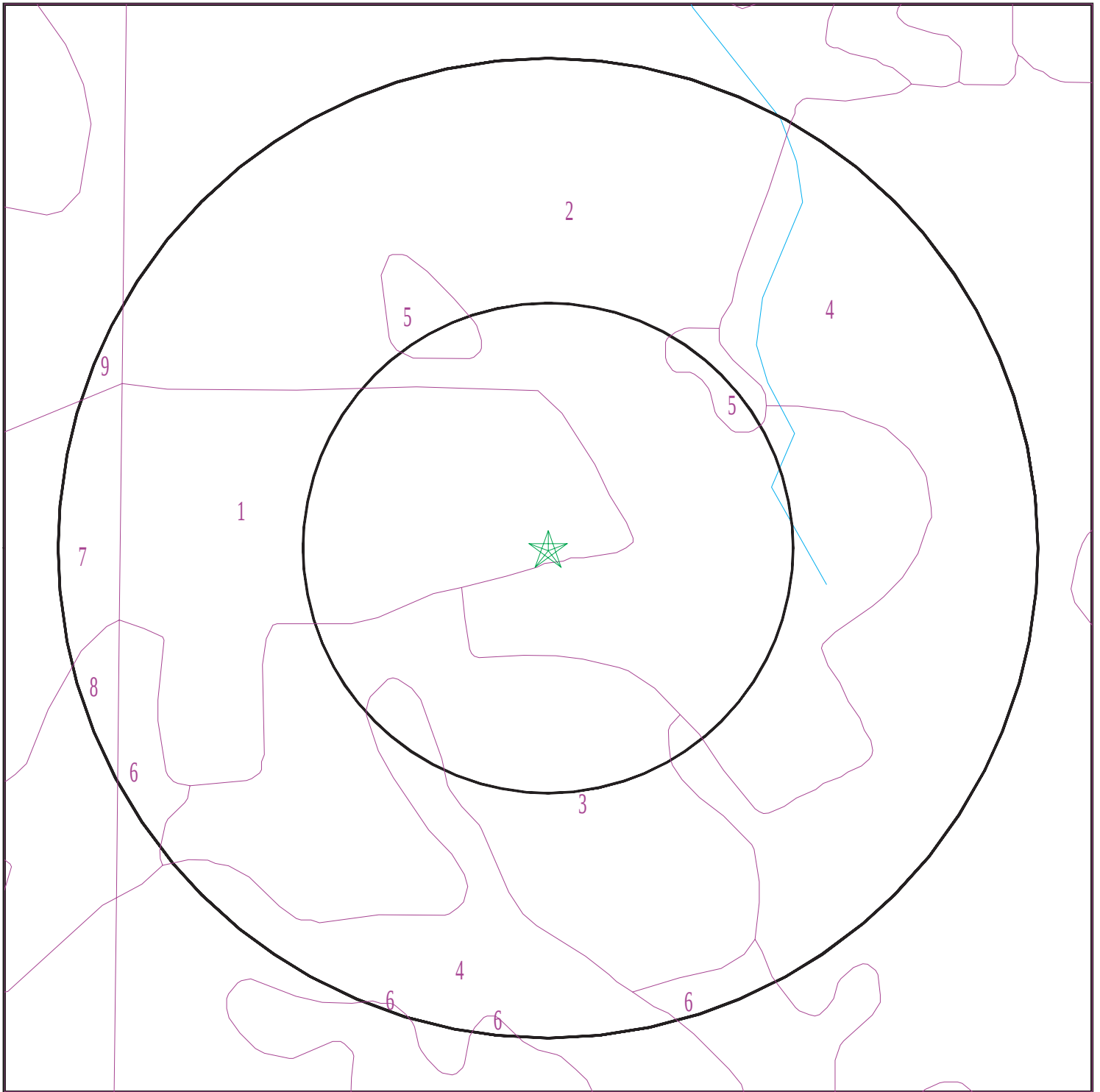
|         |                                                          |
|---------|----------------------------------------------------------|
| Era:    | Paleozoic                                                |
| System: | Pennsylvanian                                            |
| Series: | Atokan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

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

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

# SSURGO SOIL MAP - 5143621.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Best Western Hotel  
ADDRESS: 5221 Bay City Road  
Midland MI 48642  
LAT/LONG: 43.605587 / 84.163322

CLIENT: Quality Env. Solutions  
CONTACT: Jack Yan  
INQUIRY #: 5143621.2s  
DATE: December 21, 2017 3:01 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

#### Soil Map ID: 1

Soil Component Name: Urban Land

Soil Surface Texture:  
Hydrologic Group: Not reported

Soil Drainage Class:  
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

No Layer Information available.

---

#### Soil Map ID: 2

Soil Component Name: Aquents

Soil Surface Texture: variable

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |          |           |                    |                |              |                                                 |                    |
|------------------------|----------|-----------|--------------------|----------------|--------------|-------------------------------------------------|--------------------|
| Layer                  | Boundary |           | Soil Texture Class | Classification |              | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH) |
|                        | Upper    | Lower     |                    | AASHTO Group   | Unified Soil |                                                 |                    |
| 1                      | 0 inches | 59 inches | variable           | Not reported   | Not reported | Max:<br>Min:                                    | Max: Min:          |

### Soil Map ID: 3

Soil Component Name: Londo

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

| Soil Layer Information |           |           |                    |                                                                        |                                                                             |                                                 |                      |
|------------------------|-----------|-----------|--------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification                                                         |                                                                             | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group                                                           | Unified Soil                                                                |                                                 |                      |
| 1                      | 0 inches  | 7 inches  | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.  | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 14<br>Min: 4                               | Max: 7.8<br>Min: 6.1 |
| 2                      | 7 inches  | 20 inches | clay loam          | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 14<br>Min: 1.4                             | Max: 7.8<br>Min: 6.6 |
| 3                      | 20 inches | 59 inches | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 14<br>Min: 1.4                             | Max: 8.4<br>Min: 7.9 |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 4

Soil Component Name: Tappan

Soil Surface Texture: loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information |           |           |                    |                                                                        |                                                                             |                                                 |                      |
|------------------------|-----------|-----------|--------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification                                                         |                                                                             | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group                                                           | Unified Soil                                                                |                                                 |                      |
| 1                      | 0 inches  | 9 inches  | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.  | Not reported                                                                | Max: 14<br>Min: 4                               | Max: 8.4<br>Min: 7.4 |
| 2                      | 9 inches  | 29 inches | clay loam          | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 14<br>Min: 1.4                             | Max: 8.4<br>Min: 7.9 |
| 3                      | 29 inches | 59 inches | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 1.4<br>Min: 0.42                           | Max: 8.4<br>Min: 7.9 |

### Soil Map ID: 5

Soil Component Name: Water

Soil Surface Texture: loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### Soil Map ID: 6

Soil Component Name: Wixom

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

| Soil Layer Information |          |           |                    |                                                                                         |                                                            |                                              |                      |
|------------------------|----------|-----------|--------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------|----------------------|
| Layer                  | Boundary |           | Soil Texture Class | Classification                                                                          |                                                            | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH)   |
|                        | Upper    | Lower     |                    | AASHTO Group                                                                            | Unified Soil                                               |                                              |                      |
| 1                      | 0 inches | 9 inches  | loamy sand         | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42                          | Max: 6.5<br>Min: 5.6 |
| 2                      | 9 inches | 25 inches | sand               | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42                          | Max: 7.3<br>Min: 5.6 |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                    |                                                                        |                                                                                    |                                                 |                      |
|------------------------|-----------|-----------|--------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification                                                         |                                                                                    | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group                                                           | Unified Soil                                                                       |                                                 |                      |
| 3                      | 25 inches | 59 inches | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils. | Max: 4<br>Min: 1.4                              | Max: 8.4<br>Min: 7.4 |

### Soil Map ID: 7

Soil Component Name: Londo

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

| Soil Layer Information |           |           |                    |                |              |                                                 |                      |
|------------------------|-----------|-----------|--------------------|----------------|--------------|-------------------------------------------------|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification |              | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group   | Unified Soil |                                                 |                      |
| 1                      | 0 inches  | 9 inches  | loam               | Not reported   | Not reported | Max: 14<br>Min: 4                               | Max: 7.8<br>Min: 6.1 |
| 2                      | 9 inches  | 18 inches | clay loam          | Not reported   | Not reported | Max: 14<br>Min: 1.4                             | Max: 7.8<br>Min: 6.6 |
| 3                      | 18 inches | 59 inches | loam               | Not reported   | Not reported | Max: 14<br>Min: 1.4                             | Max: 8.4<br>Min: 7.4 |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 8

Soil Component Name: Wixom

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

| Soil Layer Information |           |           |                    |                |              |                                                 |                      |
|------------------------|-----------|-----------|--------------------|----------------|--------------|-------------------------------------------------|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification |              | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group   | Unified Soil |                                                 |                      |
| 1                      | 0 inches  | 9 inches  | loamy sand         | Not reported   | Not reported | Max: 141<br>Min: 42                             | Max: 6.5<br>Min: 5.1 |
| 2                      | 9 inches  | 29 inches | fine sand          | Not reported   | Not reported | Max: 141<br>Min: 42                             | Max: 7.3<br>Min: 5.1 |
| 3                      | 29 inches | 59 inches | silty clay loam    | Not reported   | Not reported | Max: 4<br>Min: 1.4                              | Max: 8.4<br>Min: 7.4 |

### Soil Map ID: 9

Soil Component Name: Aquents

Soil Surface Texture: variable

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |          |           |                    |                |              |                                                 |                    |
|------------------------|----------|-----------|--------------------|----------------|--------------|-------------------------------------------------|--------------------|
| Layer                  | Boundary |           | Soil Texture Class | Classification |              | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH) |
|                        | Upper    | Lower     |                    | AASHTO Group   | Unified Soil |                                                 |                    |
| 1                      | 0 inches | 59 inches | variable           | Not reported   | Not reported | Max:<br>Min:                                    | Max: Min:          |

### LOCAL / REGIONAL WATER AGENCY RECORDS

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

### WELL SEARCH DISTANCE INFORMATION

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

### FEDERAL USGS WELL INFORMATION

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

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

| <u>MAP ID</u>       | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------------|----------------|-------------------------|
| 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> |
|---------------|-----------------|-------------------------|
| 1             | MI3000000222305 | 1/2 - 1 Mile East       |
| 2             | MI3000000223133 | 1/2 - 1 Mile NNW        |
| 3             | MI3000000222216 | 1/2 - 1 Mile East       |
| A4            | MI3000000222911 | 1/2 - 1 Mile NE         |
| B5            | MI3000000222119 | 1/2 - 1 Mile ESE        |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

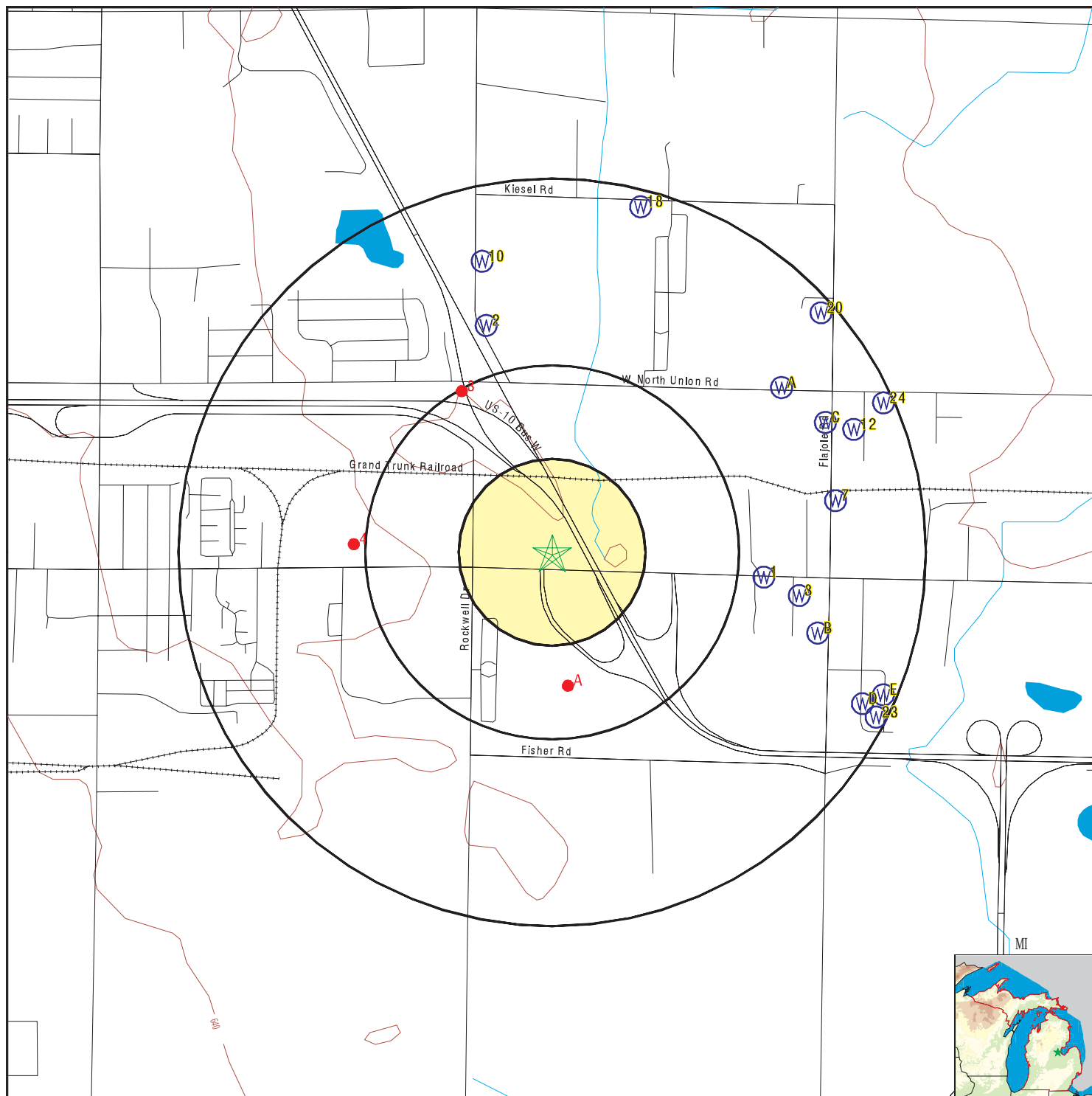
| MAP ID | WELL ID         | LOCATION<br>FROM TP |
|--------|-----------------|---------------------|
| B6     | MI3000000222095 | 1/2 - 1 Mile ESE    |
| 7      | MI3000000222500 | 1/2 - 1 Mile East   |
| A8     | MI3000000222985 | 1/2 - 1 Mile NE     |
| C9     | MI3000000222716 | 1/2 - 1 Mile ENE    |
| 10     | MI3000000223247 | 1/2 - 1 Mile NNW    |
| C11    | MI3000000222742 | 1/2 - 1 Mile ENE    |
| 12     | MI3000000222699 | 1/2 - 1 Mile ENE    |
| D13    | MI3000000221872 | 1/2 - 1 Mile ESE    |
| D14    | MI3000000221842 | 1/2 - 1 Mile ESE    |
| D15    | MI3000000221928 | 1/2 - 1 Mile ESE    |
| D16    | MI3000000221816 | 1/2 - 1 Mile ESE    |
| E17    | MI3000000221925 | 1/2 - 1 Mile ESE    |
| 18     | MI3000000223358 | 1/2 - 1 Mile NNE    |
| D19    | MI3000000221871 | 1/2 - 1 Mile ESE    |
| 20     | MI3000000223155 | 1/2 - 1 Mile NE     |
| E21    | MI3000000221836 | 1/2 - 1 Mile ESE    |
| E22    | MI3000000221952 | 1/2 - 1 Mile ESE    |
| 23     | MI3000000221812 | 1/2 - 1 Mile ESE    |
| 24     | MI3000000222848 | 1/2 - 1 Mile ENE    |
| E25    | MI3000000221890 | 1/2 - 1 Mile ESE    |

### OTHER STATE DATABASE INFORMATION

### STATE OIL/GAS WELL INFORMATION

| MAP ID | WELL ID         | LOCATION<br>FROM TP  |
|--------|-----------------|----------------------|
| A1     | MIOG90000010517 | 1/4 - 1/2 Mile South |
| A2     | MIOG90000010518 | 1/4 - 1/2 Mile South |
| 3      | MIOG90000035147 | 1/4 - 1/2 Mile NNW   |
| 4      | MIOG90000035218 | 1/2 - 1 Mile West    |

# PHYSICAL SETTING SOURCE MAP - 5143621.2s



- 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

SITE NAME: Best Western Hotel  
 ADDRESS: 5221 Bay City Road  
 Midland MI 48642  
 LAT/LONG: 43.605587 / 84.163322

CLIENT: Quality Env. Solutions  
 CONTACT: Jack Yan  
 INQUIRY #: 5143621.2s  
 DATE: December 21, 2017 3:01 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**1**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI3000000222305**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001302                   | Import id:  | 09147319003  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 19           |
| Owner name: | THEO ROE SR.                  |             |              |
| Well addr:  | 2571 W. MIDLAND RD            |             |              |
| Well depth: | 92                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 1201         |
| Const date: | 1972-10-11 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 88                            |             |              |
| Screen frm: | 88                            |             |              |
| Screen to:  | 92                            |             |              |
| Swl:        | 40                            |             |              |
| Test depth: | 60                            |             |              |
| Test hours: | 2                             |             |              |
| Test rate:  | 15                            | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6046270152                 |             |              |
| Longitude:  | -84.1520230142                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 651                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 653                           | Elev dif:   | 2            |
| Elev miv:   | 651                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 4                             |             |              |
| Pct aq d:   | 4                             | Pct aq r:   | 0            |
| Pct maq:    | 79                            | Pct maq d:  | 79           |
| Pct maq r:  | 0                             | Pct cm:     | 0            |
| Pct cm d:   | 0                             | Pct cm r:   | 0            |
| Pct pcm:    | 0                             | Pct pcm d:  | 0            |
| Pct pcm r:  | 0                             | Pct na:     | 16           |
| Pct na d:   | 16                            | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 52                            | A pct aq:   | 8            |
| A pct maq:  | 92                            | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 52                            | A pct aq2:  | 8            |
| A pct maq2: | 92                            | A pct pcm2: | 0            |
| A pct cm2:  | 0                             | A pct na2:  | 0            |
| A hit swl:  | T                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Wet/Moist                     | A sc lmaq1: | AQ           |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 25                            | Pct cm 1:   | 0            |
| Pct pcm 1:  | 0                             | Pct na 1:   | 75           |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |     |
|----------------|----------|-------------|-----|
| Pct aq 2:      | 0        | Pct maq 2:  | 100 |
| Pct cm 2:      | 0        | Pct pcm 2:  | 0   |
| Pct na 2:      | 0        | Pct aq 3:   | 0   |
| Pct maq 3:     | 100      | Pct cm 3:   | 0   |
| Pct pcm 3:     | 0        | Pct na 3:   | 0   |
| Pct aq 4:      | 0        | Pct maq 4:  | 100 |
| Pct cm 4:      | 0        | Pct pcm 4:  | 0   |
| Pct na 4:      | 0        | Pct aq 5:   | 0   |
| Pct maq 5:     | 0        | Pct cm 5:   | 0   |
| Pct pcm 5:     | 0        | Pct na 5:   | 0   |
| Pct aq 6:      | 0        | Pct maq 6:  | 0   |
| Pct cm 6:      | 0        | Pct pcm 6:  | 0   |
| Pct na 6:      | 0        | Pct aq 7:   | 0   |
| Pct maq 7:     | 0        | Pct cm 7:   | 0   |
| Pct pcm 7:     | 0        | Pct na 7:   | 0   |
| Pct aq 8:      | 0        | Pct maq 8:  | 0   |
| Pct cm 8:      | 0        | Pct pcm 8:  | 0   |
| Pct na 8:      | 0        | Pct aq 9:   | 0   |
| Pct maq 9:     | 0        | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0        | Pct na 9:   | 0   |
| Pct aq 10:     | 0        | Pct maq 10: | 0   |
| Pct cm 10:     | 0        | Pct pcm 10: | 0   |
| Pct na 10:     | 0        | Pct aq 11:  | 0   |
| Pct maq 11:    | 0        | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0        | Pct na 11:  | 0   |
| Pct aq 12:     | 0        | Pct maq 12: | 0   |
| Pct cm 12:     | 0        | Pct pcm 12: | 0   |
| Pct na 12:     | 0        | Pct aq 13:  | 0   |
| Pct maq 13:    | 0        | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0        | Pct na 13:  | 0   |
| Within sec:    | Y        | Loc match:  | Y   |
| Aq code 1:     | D        |             |     |
| Hit swl:       | T        |             |     |
| Athk2:         | 52       |             |     |
| Horiz Conduct: | 3.93846  |             |     |
| Vert Conduct:  | .10832   |             |     |
| T2:            | 204.8    |             |     |
| D50plek:       | 20.23994 |             |     |

**2**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000223133**

|             |                         |             |             |
|-------------|-------------------------|-------------|-------------|
| Wellid:     | 09000001296             | Import id:  | 09147318008 |
| County:     | Bay                     | Township:   | Williams    |
| Town range: | 14N 03E                 | Section:    | 18          |
| Owner name: | HARRY J. MOHR           |             |             |
| Well addr:  | 1510 ROCKWELL DR        |             |             |
| Well depth: | 147                     |             |             |
| Well type:  | Household               |             |             |
| Wssn:       | 0                       |             |             |
| Well num:   | Not Reported            | Driller id: | 241         |
| Const date: | 1977-05-28 00:00:00.000 | Case type:  | Steel-black |
| Case dia:   | 4                       |             |             |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Case depth: | 143                           |             |              |
| Screen frm: | 143                           |             |              |
| Screen to:  | 147                           |             |              |
| Swl:        | 40                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 20                            | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6143742716                 |             |              |
| Longitude:  | -84.1668309355                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 652                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 6            |
| Elev miv:   | 652                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 0                             |             |              |
| Pct aq d:   | 0                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 0            |
| Pct cm d:   | 0                             | Pct cm r:   | 0            |
| Pct pcm:    | 0                             | Pct pcm d:  | 0            |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | ?                             | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 107                           | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 107                           | A pct aq2:  | 100          |
| A pct maq2: | 0                             | A pct pcm2: | 0            |
| A pct cm2:  | 0                             | A pct na2:  | 0            |
| A hit swl:  | T                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Not Reported |
| A sc lmod1: | Not Reported                  | A sc lmaq1: | Not Reported |
| A sc lpct1: | 0                             | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 0            |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0            |
| Pct aq 2:   | 100                           | Pct maq 2:  | 0            |
| Pct cm 2:   | 0                             | Pct pcm 2:  | 0            |
| Pct na 2:   | 0                             | Pct aq 3:   | 62           |
| Pct maq 3:  | 0                             | Pct cm 3:   | 38           |
| Pct pcm 3:  | 0                             | Pct na 3:   | 0            |
| Pct aq 4:   | 0                             | Pct maq 4:  | 0            |
| Pct cm 4:   | 100                           | Pct pcm 4:  | 0            |
| Pct na 4:   | 0                             | Pct aq 5:   | 0            |
| Pct maq 5:  | 0                             | Pct cm 5:   | 100          |
| Pct pcm 5:  | 0                             | Pct na 5:   | 0            |
| Pct aq 6:   | 0                             | Pct maq 6:  | 0            |
| Pct cm 6:   | 100                           | Pct pcm 6:  | 0            |
| Pct na 6:   | 0                             | Pct aq 7:   | 55           |
| Pct maq 7:  | 0                             | Pct cm 7:   | 45           |
| Pct pcm 7:  | 0                             | Pct na 7:   | 0            |
| Pct aq 8:   | 0                             | Pct maq 8:  | 0            |
| Pct cm 8:   | 0                             | Pct pcm 8:  | 0            |
| Pct na 8:   | 0                             | Pct aq 9:   | 0            |
| Pct maq 9:  | 0                             | Pct cm 9:   | 0            |
| Pct pcm 9:  | 0                             | Pct na 9:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |   |
|----------------|--------------|-------------|---|
| Pct aq 10:     | 0            | Pct maq 10: | 0 |
| Pct cm 10:     | 0            | Pct pcm 10: | 0 |
| Pct na 10:     | 0            | Pct aq 11:  | 0 |
| Pct maq 11:    | 0            | Pct cm 11:  | 0 |
| Pct pcm 11:    | 0            | Pct na 11:  | 0 |
| Pct aq 12:     | 0            | Pct maq 12: | 0 |
| Pct cm 12:     | 0            | Pct pcm 12: | 0 |
| Pct na 12:     | 0            | Pct aq 13:  | 0 |
| Pct maq 13:    | 0            | Pct cm 13:  | 0 |
| Pct pcm 13:    | 0            | Pct na 13:  | 0 |
| Within sec:    | Y            | Loc match:  | Y |
| Aq code 1:     | Not Reported |             |   |
| Hit swl:       | Not Reported |             |   |
| Athk2:         | 0            |             |   |
| Horiz Conduct: | 0            |             |   |
| Vert Conduct:  | 0            |             |   |
| T2:            | 0            |             |   |
| D50plek:       | 0            |             |   |

**3**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000222216**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001303                   | Import id:  | 09147319004  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 19           |
| Owner name: | TERRY NUSSEAR                 |             |              |
| Well addr:  | 4785 RONALD ST                |             |              |
| Well depth: | 97                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 1069         |
| Const date: | 1977-07-23 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 88                            |             |              |
| Screen frm: | 89                            |             |              |
| Screen to:  | 97                            |             |              |
| Swl:        | 42                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 25                            | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6039130826                 |             |              |
| Longitude:  | -84.1501357424                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 651                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 649                           | Elev dif:   | 2            |
| Elev miv:   | 651                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 22                            |             |              |
| Pct aq d:   | 22                            | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 73           |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |               |
|----------------|--------------|-------------|---------------|
| Pct cm d:      | 73           | Pct cm r:   | 0             |
| Pct pcm:       | 5            | Pct pcm d:  | 5             |
| Pct pcm r:     | 0            | Pct na:     | 0             |
| Pct na d:      | 0            | Pct na r:   | 0             |
| Pct flag:      | Not Reported | Rock top:   | -1            |
| D r type:      | Not Reported | Spc cpcity: | 0             |
| A thicknes:    | 26           | A pct aq:   | 81            |
| A pct maq:     | 0            | A pct pcm:  | 19            |
| A pct cm:      | 0            | A pct na:   | 0             |
| A thickns2:    | 55           | A pct aq2:  | 38            |
| A pct maq2:    | 0            | A pct pcm2: | 9             |
| A pct cm2:     | 53           | A pct na2:  | 0             |
| A hit swl:     | F            | A hit top:  | F             |
| A hit rock:    | F            | A sc lith1: | Sand & Gravel |
| A sc lmod1:    | Not Reported | A sc lmaq1: | AQ            |
| A sc lpct1:    | 100          | A sc lith2: | Not Reported  |
| A sc lmod2:    | Not Reported | A sc lmaq2: | Not Reported  |
| A sc lpct2:    | 0            | Pct aq 1:   | 0             |
| Pct maq 1:     | 0            | Pct cm 1:   | 100           |
| Pct pcm 1:     | 0            | Pct na 1:   | 0             |
| Pct aq 2:      | 0            | Pct maq 2:  | 0             |
| Pct cm 2:      | 100          | Pct pcm 2:  | 0             |
| Pct na 2:      | 0            | Pct aq 3:   | 0             |
| Pct maq 3:     | 0            | Pct cm 3:   | 100           |
| Pct pcm 3:     | 0            | Pct na 3:   | 0             |
| Pct aq 4:      | 20           | Pct maq 4:  | 0             |
| Pct cm 4:      | 55           | Pct pcm 4:  | 25            |
| Pct na 4:      | 0            | Pct aq 5:   | 0             |
| Pct maq 5:     | 0            | Pct cm 5:   | 0             |
| Pct pcm 5:     | 0            | Pct na 5:   | 0             |
| Pct aq 6:      | 0            | Pct maq 6:  | 0             |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0             |
| Pct na 6:      | 0            | Pct aq 7:   | 0             |
| Pct maq 7:     | 0            | Pct cm 7:   | 0             |
| Pct pcm 7:     | 0            | Pct na 7:   | 0             |
| Pct aq 8:      | 0            | Pct maq 8:  | 0             |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0             |
| Pct na 8:      | 0            | Pct aq 9:   | 0             |
| Pct maq 9:     | 0            | Pct cm 9:   | 0             |
| Pct pcm 9:     | 0            | Pct na 9:   | 0             |
| Pct aq 10:     | 0            | Pct maq 10: | 0             |
| Pct cm 10:     | 0            | Pct pcm 10: | 0             |
| Pct na 10:     | 0            | Pct aq 11:  | 0             |
| Pct maq 11:    | 0            | Pct cm 11:  | 0             |
| Pct pcm 11:    | 0            | Pct na 11:  | 0             |
| Pct aq 12:     | 0            | Pct maq 12: | 0             |
| Pct cm 12:     | 0            | Pct pcm 12: | 0             |
| Pct na 12:     | 0            | Pct aq 13:  | 0             |
| Pct maq 13:    | 0            | Pct cm 13:  | 0             |
| Pct pcm 13:    | 0            | Pct na 13:  | 0             |
| Within sec:    | Y            | Loc match:  | Y             |
| Aq code 1:     | D            |             |               |
| Hit swl:       | F            |             |               |
| Athk2:         | 55           |             |               |
| Horiz Conduct: | 22.72823     |             |               |
| Vert Conduct:  | .00019       |             |               |
| T2:            | 1250.0529    |             |               |
| D50plek:       | 118.2159     |             |               |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

**A4**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS**

**MI3000000222911**

|             |                               |             |               |
|-------------|-------------------------------|-------------|---------------|
| Wellid:     | 09000001300                   | Import id:  | 09147319001   |
| County:     | Bay                           | Township:   | Williams      |
| Town range: | 14N 03E                       | Section:    | 19            |
| Owner name: | DANIAL SZESZYLSKI             |             |               |
| Well addr:  | 2585 W. N. UNION RD           |             |               |
| Well depth: | 92                            |             |               |
| Well type:  | Household                     |             |               |
| Wssn:       | 0                             |             |               |
| Well num:   | Not Reported                  | Driller id: | 320           |
| Const date: | 1970-10-26 00:00:00.000       | Case type:  | Steel-black   |
| Case dia:   | 2                             |             |               |
| Case depth: | 84                            |             |               |
| Screen frm: | 84                            |             |               |
| Screen to:  | 92                            |             |               |
| Swl:        | 37                            |             |               |
| Test depth: | 0                             |             |               |
| Test hours: | 0                             |             |               |
| Test rate:  | 0                             | Test methd: | Unknown       |
| Grouted:    | 1                             | Pmp cpcity: | 0             |
| Latitude:   | 43.6117565844                 |             |               |
| Longitude:  | -84.1515503738                |             |               |
| Methd coll: | Interpolation-Map             |             |               |
| Elevation:  | 651                           |             |               |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported  |
| Elev flag:  | Not Reported                  |             |               |
| Swl flag:   | Not Reported                  |             |               |
| Elev dem:   | 649                           | Elev dif:   | 2             |
| Elev miv:   | 651                           | Aq code:    | Drift Well    |
| Aq flag:    | Not Reported                  |             |               |
| Pct aq:     | 22                            |             |               |
| Pct aq d:   | 22                            | Pct aq r:   | 0             |
| Pct maq:    | 0                             | Pct maq d:  | 0             |
| Pct maq r:  | 0                             | Pct cm:     | 78            |
| Pct cm d:   | 78                            | Pct cm r:   | 0             |
| Pct pcm:    | 0                             | Pct pcm d:  | 0             |
| Pct pcm r:  | 0                             | Pct na:     | 0             |
| Pct na d:   | 0                             | Pct na r:   | 0             |
| Pct flag:   | Not Reported                  | Rock top:   | -1            |
| D r type:   | Not Reported                  | Spc cpcity: | 0             |
| A thicknes: | 20                            | A pct aq:   | 100           |
| A pct maq:  | 0                             | A pct pcm:  | 0             |
| A pct cm:   | 0                             | A pct na:   | 0             |
| A thickns2: | 55                            | A pct aq2:  | 36            |
| A pct maq2: | 0                             | A pct pcm2: | 0             |
| A pct cm2:  | 64                            | A pct na2:  | 0             |
| A hit swl:  | F                             | A hit top:  | F             |
| A hit rock: | F                             | A sc lith1: | Gravel & Sand |
| A sc lmod1: | Not Reported                  | A sc lmaq1: | AQ            |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported  |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported  |
| A sc lpct2: | 0                             | Pct aq 1:   | 0             |
| Pct maq 1:  | 0                             | Pct cm 1:   | 100           |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0             |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |           |             |     |
|----------------|-----------|-------------|-----|
| Pct aq 2:      | 0         | Pct maq 2:  | 0   |
| Pct cm 2:      | 100       | Pct pcm 2:  | 0   |
| Pct na 2:      | 0         | Pct aq 3:   | 0   |
| Pct maq 3:     | 0         | Pct cm 3:   | 100 |
| Pct pcm 3:     | 0         | Pct na 3:   | 0   |
| Pct aq 4:      | 40        | Pct maq 4:  | 0   |
| Pct cm 4:      | 60        | Pct pcm 4:  | 0   |
| Pct na 4:      | 0         | Pct aq 5:   | 0   |
| Pct maq 5:     | 0         | Pct cm 5:   | 0   |
| Pct pcm 5:     | 0         | Pct na 5:   | 0   |
| Pct aq 6:      | 0         | Pct maq 6:  | 0   |
| Pct cm 6:      | 0         | Pct pcm 6:  | 0   |
| Pct na 6:      | 0         | Pct aq 7:   | 0   |
| Pct maq 7:     | 0         | Pct cm 7:   | 0   |
| Pct pcm 7:     | 0         | Pct na 7:   | 0   |
| Pct aq 8:      | 0         | Pct maq 8:  | 0   |
| Pct cm 8:      | 0         | Pct pcm 8:  | 0   |
| Pct na 8:      | 0         | Pct aq 9:   | 0   |
| Pct maq 9:     | 0         | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0         | Pct na 9:   | 0   |
| Pct aq 10:     | 0         | Pct maq 10: | 0   |
| Pct cm 10:     | 0         | Pct pcm 10: | 0   |
| Pct na 10:     | 0         | Pct aq 11:  | 0   |
| Pct maq 11:    | 0         | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0         | Pct na 11:  | 0   |
| Pct aq 12:     | 0         | Pct maq 12: | 0   |
| Pct cm 12:     | 0         | Pct pcm 12: | 0   |
| Pct na 12:     | 0         | Pct aq 13:  | 0   |
| Pct maq 13:    | 0         | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0         | Pct na 13:  | 0   |
| Within sec:    | Y         | Loc match:  | Y   |
| Aq code 1:     | D         |             |     |
| Hit swl:       | F         |             |     |
| Athk2:         | 55        |             |     |
| Horiz Conduct: | 36.3637   |             |     |
| Vert Conduct:  | .00016    |             |     |
| T2:            | 2000.0035 |             |     |
| D50plek:       | 184.56839 |             |     |

**B5**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000222119**

|             |                         |             |             |
|-------------|-------------------------|-------------|-------------|
| Wellid:     | 09000001304             | Import id:  | 09147319005 |
| County:     | Bay                     | Township:   | Williams    |
| Town range: | 14N 03E                 | Section:    | 19          |
| Owner name: | DAN RATTELL             |             |             |
| Well addr:  | 4828 FLAJOLE RD         |             |             |
| Well depth: | 96                      |             |             |
| Well type:  | Household               |             |             |
| Wssn:       | 0                       |             |             |
| Well num:   | Not Reported            | Driller id: | 1069        |
| Const date: | 1978-02-14 00:00:00.000 | Case type:  | Steel-black |
| Case dia:   | 2                       |             |             |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Case depth: | 88                            |             |              |
| Screen frm: | 88                            |             |              |
| Screen to:  | 96                            |             |              |
| Swl:        | 35                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 15                            | Test methd: | Unknown      |
| Grouted:    | 0                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6026811461                 |             |              |
| Longitude:  | -84.1491072535                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 651                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 649                           | Elev dif:   | 2            |
| Elev miv:   | 651                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 14                            |             |              |
| Pct aq d:   | 14                            | Pct aq r:   | 0            |
| Pct maq:    | 5                             | Pct maq d:  | 5            |
| Pct maq r:  | 0                             | Pct cm:     | 75           |
| Pct cm d:   | 75                            | Pct cm r:   | 0            |
| Pct pcm:    | 6                             | Pct pcm d:  | 6            |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 24                            | A pct aq:   | 54           |
| A pct maq:  | 21                            | A pct pcm:  | 25           |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 61                            | A pct aq2:  | 21           |
| A pct maq2: | 8                             | A pct pcm2: | 10           |
| A pct cm2:  | 61                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Not Reported                  | A sc lmaq1: | AQ           |
| A sc lpct1: | 75                            | A sc lith2: | Gravel       |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | AQ           |
| A sc lpct2: | 25                            | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 100          |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0            |
| Pct aq 2:   | 0                             | Pct maq 2:  | 0            |
| Pct cm 2:   | 100                           | Pct pcm 2:  | 0            |
| Pct na 2:   | 0                             | Pct aq 3:   | 0            |
| Pct maq 3:  | 0                             | Pct cm 3:   | 100          |
| Pct pcm 3:  | 0                             | Pct na 3:   | 0            |
| Pct aq 4:   | 0                             | Pct maq 4:  | 10           |
| Pct cm 4:   | 60                            | Pct pcm 4:  | 30           |
| Pct na 4:   | 0                             | Pct aq 5:   | 0            |
| Pct maq 5:  | 0                             | Pct cm 5:   | 0            |
| Pct pcm 5:  | 0                             | Pct na 5:   | 0            |
| Pct aq 6:   | 0                             | Pct maq 6:  | 0            |
| Pct cm 6:   | 0                             | Pct pcm 6:  | 0            |
| Pct na 6:   | 0                             | Pct aq 7:   | 0            |
| Pct maq 7:  | 0                             | Pct cm 7:   | 0            |
| Pct pcm 7:  | 0                             | Pct na 7:   | 0            |
| Pct aq 8:   | 0                             | Pct maq 8:  | 0            |
| Pct cm 8:   | 0                             | Pct pcm 8:  | 0            |
| Pct na 8:   | 0                             | Pct aq 9:   | 0            |
| Pct maq 9:  | 0                             | Pct cm 9:   | 0            |
| Pct pcm 9:  | 0                             | Pct na 9:   | 0            |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |           |             |   |
|----------------|-----------|-------------|---|
| Pct aq 10:     | 0         | Pct maq 10: | 0 |
| Pct cm 10:     | 0         | Pct pcm 10: | 0 |
| Pct na 10:     | 0         | Pct aq 11:  | 0 |
| Pct maq 11:    | 0         | Pct cm 11:  | 0 |
| Pct pcm 11:    | 0         | Pct na 11:  | 0 |
| Pct aq 12:     | 0         | Pct maq 12: | 0 |
| Pct cm 12:     | 0         | Pct pcm 12: | 0 |
| Pct na 12:     | 0         | Pct aq 13:  | 0 |
| Pct maq 13:    | 0         | Pct cm 13:  | 0 |
| Pct pcm 13:    | 0         | Pct na 13:  | 0 |
| Within sec:    | Y         | Loc match:  | Y |
| Aq code 1:     | D         |             |   |
| Hit swl:       | F         |             |   |
| Athk2:         | 61        |             |   |
| Horiz Conduct: | 16.80344  |             |   |
| Vert Conduct:  | .00016    |             |   |
| T2:            | 1025.0097 |             |   |
| D50plek:       | 108.64443 |             |   |

**B6**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS**

**MI3000000222095**

|             |                               |             |                 |
|-------------|-------------------------------|-------------|-----------------|
| Wellid:     | 09000001305                   | Import id:  | 09147319006     |
| County:     | Bay                           | Township:   | Williams        |
| Town range: | 14N 03E                       | Section:    | 19              |
| Owner name: | LORNA R SMITH                 |             |                 |
| Well addr:  | 4844 FLAJOLE RD               |             |                 |
| Well depth: | 72                            |             |                 |
| Well type:  | Household                     |             |                 |
| Wssn:       | 0                             |             |                 |
| Well num:   | Not Reported                  | Driller id: | 1007            |
| Const date: | 1977-07-21 00:00:00.000       | Case type:  | Clay Tile Crock |
| Case dia:   | 12                            |             |                 |
| Case depth: | 0                             |             |                 |
| Screen frm: | 0                             |             |                 |
| Screen to:  | 0                             |             |                 |
| Swl:        | 999.99                        |             |                 |
| Test depth: | 0                             |             |                 |
| Test hours: | 0                             |             |                 |
| Test rate:  | 0                             | Test methd: | Unknown         |
| Grouted:    | 0                             | Pmp cpcity: | 0               |
| Latitude:   | 43.6022369563                 |             |                 |
| Longitude:  | -84.1492010004                |             |                 |
| Methd coll: | Interpolation-Map             |             |                 |
| Elevation:  | 651                           |             |                 |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported    |
| Elev flag:  | Not Reported                  |             |                 |
| Swl flag:   | SWL > Well Depth              |             |                 |
| Elev dem:   | 649                           | Elev dif:   | 2               |
| Elev miv:   | 651                           | Aq code:    | Drift Well      |
| Aq flag:    | Not Reported                  |             |                 |
| Pct aq:     | 0                             |             |                 |
| Pct aq d:   | 0                             | Pct aq r:   | 0               |
| Pct maq:    | 0                             | Pct maq d:  | 0               |
| Pct maq r:  | 0                             | Pct cm:     | 0               |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |              |
|----------------|--------------|-------------|--------------|
| Pct cm d:      | 0            | Pct cm r:   | 0            |
| Pct pcm:       | 0            | Pct pcm d:  | 0            |
| Pct pcm r:     | 0            | Pct na:     | 0            |
| Pct na d:      | 0            | Pct na r:   | 0            |
| Pct flag:      | ?            | Rock top:   | -1           |
| D r type:      | Not Reported | Spc cpcity: | 0            |
| A thicknes:    | 0            | A pct aq:   | 0            |
| A pct maq:     | 0            | A pct pcm:  | 0            |
| A pct cm:      | 0            | A pct na:   | 0            |
| A thickns2:    | 0            | A pct aq2:  | 0            |
| A pct maq2:    | 0            | A pct pcm2: | 0            |
| A pct cm2:     | 0            | A pct na2:  | 0            |
| A hit swl:     | F            | A hit top:  | T            |
| A hit rock:    | F            | A sc lith1: | Not Reported |
| A sc lmod1:    | Not Reported | A sc lmaq1: | Not Reported |
| A sc lpct1:    | 0            | A sc lith2: | Not Reported |
| A sc lmod2:    | Not Reported | A sc lmaq2: | Not Reported |
| A sc lpct2:    | 0            | Pct aq 1:   | 0            |
| Pct maq 1:     | 0            | Pct cm 1:   | 0            |
| Pct pcm 1:     | 0            | Pct na 1:   | 0            |
| Pct aq 2:      | 0            | Pct maq 2:  | 0            |
| Pct cm 2:      | 0            | Pct pcm 2:  | 0            |
| Pct na 2:      | 0            | Pct aq 3:   | 0            |
| Pct maq 3:     | 0            | Pct cm 3:   | 0            |
| Pct pcm 3:     | 0            | Pct na 3:   | 0            |
| Pct aq 4:      | 0            | Pct maq 4:  | 0            |
| Pct cm 4:      | 0            | Pct pcm 4:  | 0            |
| Pct na 4:      | 0            | Pct aq 5:   | 0            |
| Pct maq 5:     | 0            | Pct cm 5:   | 0            |
| Pct pcm 5:     | 0            | Pct na 5:   | 0            |
| Pct aq 6:      | 0            | Pct maq 6:  | 0            |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0            |
| Pct na 6:      | 0            | Pct aq 7:   | 0            |
| Pct maq 7:     | 0            | Pct cm 7:   | 0            |
| Pct pcm 7:     | 0            | Pct na 7:   | 0            |
| Pct aq 8:      | 0            | Pct maq 8:  | 0            |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0            |
| Pct na 8:      | 0            | Pct aq 9:   | 0            |
| Pct maq 9:     | 0            | Pct cm 9:   | 0            |
| Pct pcm 9:     | 0            | Pct na 9:   | 0            |
| Pct aq 10:     | 0            | Pct maq 10: | 0            |
| Pct cm 10:     | 0            | Pct pcm 10: | 0            |
| Pct na 10:     | 0            | Pct aq 11:  | 0            |
| Pct maq 11:    | 0            | Pct cm 11:  | 0            |
| Pct pcm 11:    | 0            | Pct na 11:  | 0            |
| Pct aq 12:     | 0            | Pct maq 12: | 0            |
| Pct cm 12:     | 0            | Pct pcm 12: | 0            |
| Pct na 12:     | 0            | Pct aq 13:  | 0            |
| Pct maq 13:    | 0            | Pct cm 13:  | 0            |
| Pct pcm 13:    | 0            | Pct na 13:  | 0            |
| Within sec:    | Y            | Loc match:  | Y            |
| Aq code 1:     | Not Reported |             |              |
| Hit swl:       | Not Reported |             |              |
| Athk2:         | 0            |             |              |
| Horiz Conduct: | 0            |             |              |
| Vert Conduct:  | 0            |             |              |
| T2:            | 0            |             |              |
| D50plek:       | 0            |             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

7

East  
1/2 - 1 Mile  
Lower

MI WELLS

MI3000000222500

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001308                   | Import id:  | 09147320003  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | GOULET                        |             |              |
| Well addr:  | 4627 FLAJOLE RD               |             |              |
| Well depth: | 99                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 320          |
| Const date: | 1969-11-05 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 91                            |             |              |
| Screen frm: | 91                            |             |              |
| Screen to:  | 99                            |             |              |
| Swl:        | 35                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6075906099                 |             |              |
| Longitude:  | -84.1482037817                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 651                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 649                           | Elev dif:   | 2            |
| Elev miv:   | 651                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 0                             |             |              |
| Pct aq d:   | 0                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 0            |
| Pct cm d:   | 0                             | Pct cm r:   | 0            |
| Pct pcm:    | 0                             | Pct pcm d:  | 0            |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | ?                             | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 17                            | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 66                            | A pct aq2:  | 26           |
| A pct maq2: | 0                             | A pct pcm2: | 0            |
| A pct cm2:  | 74                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Not Reported |
| A sc lmod1: | Not Reported                  | A sc lmaq1: | Not Reported |
| A sc lpct1: | 0                             | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 90           |
| Pct pcm 1:  | 0                             | Pct na 1:   | 10           |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |     |
|----------------|--------------|-------------|-----|
| Pct aq 2:      | 0            | Pct maq 2:  | 0   |
| Pct cm 2:      | 100          | Pct pcm 2:  | 0   |
| Pct na 2:      | 0            | Pct aq 3:   | 0   |
| Pct maq 3:     | 0            | Pct cm 3:   | 100 |
| Pct pcm 3:     | 0            | Pct na 3:   | 0   |
| Pct aq 4:      | 0            | Pct maq 4:  | 0   |
| Pct cm 4:      | 100          | Pct pcm 4:  | 0   |
| Pct na 4:      | 0            | Pct aq 5:   | 81  |
| Pct maq 5:     | 0            | Pct cm 5:   | 19  |
| Pct pcm 5:     | 0            | Pct na 5:   | 0   |
| Pct aq 6:      | 0            | Pct maq 6:  | 0   |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0   |
| Pct na 6:      | 0            | Pct aq 7:   | 0   |
| Pct maq 7:     | 0            | Pct cm 7:   | 0   |
| Pct pcm 7:     | 0            | Pct na 7:   | 0   |
| Pct aq 8:      | 0            | Pct maq 8:  | 0   |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0   |
| Pct na 8:      | 0            | Pct aq 9:   | 0   |
| Pct maq 9:     | 0            | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0            | Pct na 9:   | 0   |
| Pct aq 10:     | 0            | Pct maq 10: | 0   |
| Pct cm 10:     | 0            | Pct pcm 10: | 0   |
| Pct na 10:     | 0            | Pct aq 11:  | 0   |
| Pct maq 11:    | 0            | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0            | Pct na 11:  | 0   |
| Pct aq 12:     | 0            | Pct maq 12: | 0   |
| Pct cm 12:     | 0            | Pct pcm 12: | 0   |
| Pct na 12:     | 0            | Pct aq 13:  | 0   |
| Pct maq 13:    | 0            | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0            | Pct na 13:  | 0   |
| Within sec:    | Y            | Loc match:  | Y   |
| Aq code 1:     | Not Reported |             |     |
| Hit swl:       | Not Reported |             |     |
| Athk2:         | 0            |             |     |
| Horiz Conduct: | 0            |             |     |
| Vert Conduct:  | 0            |             |     |
| T2:            | 0            |             |     |
| D50plek:       | 0            |             |     |

**A8  
NE  
1/2 - 1 Mile  
Lower**

**MI WELLS MI3000000222985**

|             |                         |             |             |
|-------------|-------------------------|-------------|-------------|
| Wellid:     | 09000001299             | Import id:  | 09147318011 |
| County:     | Bay                     | Township:   | Williams    |
| Town range: | 14N 03E                 | Section:    | 18          |
| Owner name: | GERALD MARTIN           |             |             |
| Well addr:  | 2554 UNION RD           |             |             |
| Well depth: | 93                      |             |             |
| Well type:  | Household               |             |             |
| Wssn:       | 0                       |             |             |
| Well num:   | Not Reported            | Driller id: | 320         |
| Const date: | 1968-04-06 00:00:00.000 | Case type:  | Steel-black |
| Case dia:   | 2                       |             |             |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Case depth: | 85                            |             |              |
| Screen frm: | 84                            |             |              |
| Screen to:  | 93                            |             |              |
| Swl:        | 34                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 0                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6121802127                 |             |              |
| Longitude:  | -84.1506106365                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 651                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 649                           | Elev dif:   | 2            |
| Elev miv:   | 651                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 0                             |             |              |
| Pct aq d:   | 0                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 0            |
| Pct cm d:   | 0                             | Pct cm r:   | 0            |
| Pct pcm:    | 0                             | Pct pcm d:  | 0            |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | ?                             | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 19                            | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 59                            | A pct aq2:  | 32           |
| A pct maq2: | 0                             | A pct pcm2: | 24           |
| A pct cm2:  | 44                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Not Reported |
| A sc lmod1: | Not Reported                  | A sc lmaq1: | Not Reported |
| A sc lpct1: | 0                             | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 0            |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0            |
| Pct aq 2:   | 0                             | Pct maq 2:  | 0            |
| Pct cm 2:   | 100                           | Pct pcm 2:  | 0            |
| Pct na 2:   | 0                             | Pct aq 3:   | 0            |
| Pct maq 3:  | 0                             | Pct cm 3:   | 100          |
| Pct pcm 3:  | 0                             | Pct na 3:   | 0            |
| Pct aq 4:   | 30                            | Pct maq 4:  | 0            |
| Pct cm 4:   | 0                             | Pct pcm 4:  | 70           |
| Pct na 4:   | 0                             | Pct aq 5:   | 0            |
| Pct maq 5:  | 0                             | Pct cm 5:   | 0            |
| Pct pcm 5:  | 0                             | Pct na 5:   | 0            |
| Pct aq 6:   | 0                             | Pct maq 6:  | 0            |
| Pct cm 6:   | 0                             | Pct pcm 6:  | 0            |
| Pct na 6:   | 0                             | Pct aq 7:   | 0            |
| Pct maq 7:  | 0                             | Pct cm 7:   | 0            |
| Pct pcm 7:  | 0                             | Pct na 7:   | 0            |
| Pct aq 8:   | 0                             | Pct maq 8:  | 0            |
| Pct cm 8:   | 0                             | Pct pcm 8:  | 0            |
| Pct na 8:   | 0                             | Pct aq 9:   | 0            |
| Pct maq 9:  | 0                             | Pct cm 9:   | 0            |
| Pct pcm 9:  | 0                             | Pct na 9:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |           |             |   |
|----------------|-----------|-------------|---|
| Pct aq 10:     | 0         | Pct maq 10: | 0 |
| Pct cm 10:     | 0         | Pct pcm 10: | 0 |
| Pct na 10:     | 0         | Pct aq 11:  | 0 |
| Pct maq 11:    | 0         | Pct cm 11:  | 0 |
| Pct pcm 11:    | 0         | Pct na 11:  | 0 |
| Pct aq 12:     | 0         | Pct maq 12: | 0 |
| Pct cm 12:     | 0         | Pct pcm 12: | 0 |
| Pct na 12:     | 0         | Pct aq 13:  | 0 |
| Pct maq 13:    | 0         | Pct cm 13:  | 0 |
| Pct pcm 13:    | 0         | Pct na 13:  | 0 |
| Within sec:    | Y         | Loc match:  | Y |
| Aq code 1:     | D         |             |   |
| Hit swl:       | F         |             |   |
| Athk2:         | 59        |             |   |
| Horiz Conduct: | 21.18672  |             |   |
| Vert Conduct:  | .00022    |             |   |
| T2:            | 1250.0166 |             |   |
| D50plek:       | 126.80994 |             |   |

**C9**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000222716**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001301                   | Import id:  | 09147319002  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 19           |
| Owner name: | HAROLD DULUDE                 |             |              |
| Well addr:  | 4594 FLAJOLE RD               |             |              |
| Well depth: | 100                           |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 320          |
| Const date: | 1974-04-20 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 92                            |             |              |
| Screen frm: | 92                            |             |              |
| Screen to:  | 100                           |             |              |
| Swl:        | 38                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.610535403                  |             |              |
| Longitude:  | -84.1490401844                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 651                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 5            |
| Elev miv:   | 651                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 17                            |             |              |
| Pct aq d:   | 17                            | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 83           |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |              |
|----------------|--------------|-------------|--------------|
| Pct cm d:      | 83           | Pct cm r:   | 0            |
| Pct pcm:       | 0            | Pct pcm d:  | 0            |
| Pct pcm r:     | 0            | Pct na:     | 0            |
| Pct na d:      | 0            | Pct na r:   | 0            |
| Pct flag:      | Not Reported | Rock top:   | -1           |
| D r type:      | Not Reported | Spc cpcity: | 0            |
| A thicknes:    | 13           | A pct aq:   | 100          |
| A pct maq:     | 0            | A pct pcm:  | 0            |
| A pct cm:      | 0            | A pct na:   | 0            |
| A thickns2:    | 62           | A pct aq2:  | 21           |
| A pct maq2:    | 0            | A pct pcm2: | 0            |
| A pct cm2:     | 79           | A pct na2:  | 0            |
| A hit swl:     | F            | A hit top:  | F            |
| A hit rock:    | F            | A sc lith1: | Sand         |
| A sc lmod1:    | Not Reported | A sc lmaq1: | AQ           |
| A sc lpct1:    | 100          | A sc lith2: | Not Reported |
| A sc lmod2:    | Not Reported | A sc lmaq2: | Not Reported |
| A sc lpct2:    | 0            | Pct aq 1:   | 20           |
| Pct maq 1:     | 0            | Pct cm 1:   | 80           |
| Pct pcm 1:     | 0            | Pct na 1:   | 0            |
| Pct aq 2:      | 0            | Pct maq 2:  | 0            |
| Pct cm 2:      | 100          | Pct pcm 2:  | 0            |
| Pct na 2:      | 0            | Pct aq 3:   | 0            |
| Pct maq 3:     | 0            | Pct cm 3:   | 100          |
| Pct pcm 3:     | 0            | Pct na 3:   | 0            |
| Pct aq 4:      | 0            | Pct maq 4:  | 0            |
| Pct cm 4:      | 100          | Pct pcm 4:  | 0            |
| Pct na 4:      | 0            | Pct aq 5:   | 65           |
| Pct maq 5:     | 0            | Pct cm 5:   | 35           |
| Pct pcm 5:     | 0            | Pct na 5:   | 0            |
| Pct aq 6:      | 0            | Pct maq 6:  | 0            |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0            |
| Pct na 6:      | 0            | Pct aq 7:   | 0            |
| Pct maq 7:     | 0            | Pct cm 7:   | 0            |
| Pct pcm 7:     | 0            | Pct na 7:   | 0            |
| Pct aq 8:      | 0            | Pct maq 8:  | 0            |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0            |
| Pct na 8:      | 0            | Pct aq 9:   | 0            |
| Pct maq 9:     | 0            | Pct cm 9:   | 0            |
| Pct pcm 9:     | 0            | Pct na 9:   | 0            |
| Pct aq 10:     | 0            | Pct maq 10: | 0            |
| Pct cm 10:     | 0            | Pct pcm 10: | 0            |
| Pct na 10:     | 0            | Pct aq 11:  | 0            |
| Pct maq 11:    | 0            | Pct cm 11:  | 0            |
| Pct pcm 11:    | 0            | Pct na 11:  | 0            |
| Pct aq 12:     | 0            | Pct maq 12: | 0            |
| Pct cm 12:     | 0            | Pct pcm 12: | 0            |
| Pct na 12:     | 0            | Pct aq 13:  | 0            |
| Pct maq 13:    | 0            | Pct cm 13:  | 0            |
| Pct pcm 13:    | 0            | Pct na 13:  | 0            |
| Within sec:    | Y            | Loc match:  | Y            |
| Aq code 1:     | D            |             |              |
| Hit swl:       | F            |             |              |
| Athk2:         | 62           |             |              |
| Horiz Conduct: | 20.96782     |             |              |
| Vert Conduct:  | .00013       |             |              |
| T2:            | 1300.0049    |             |              |
| D50plek:       | 138.30122    |             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

10

NNW

1/2 - 1 Mile

Lower

MI WELLS

MI3000000223247

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001294                   | Import id:  | 09147318006  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 18           |
| Owner name: | BSM REALTY C/O JESSIE MORR    |             |              |
| Well addr:  | 2104 ROCKWELL DR              |             |              |
| Well depth: | 164                           |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 222          |
| Const date: | 1984-02-22 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 156                           |             |              |
| Screen frm: | 156                           |             |              |
| Screen to:  | 164                           |             |              |
| Swl:        | 10                            |             |              |
| Test depth: | 30                            |             |              |
| Test hours: | .5                            |             |              |
| Test rate:  | 8                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6168612101                 |             |              |
| Longitude:  | -84.1670442197                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 651                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 5            |
| Elev miv:   | 651                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 9                             |             |              |
| Pct aq d:   | 9                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 70           |
| Pct cm d:   | 70                            | Pct cm r:   | 0            |
| Pct pcm:    | 21                            | Pct pcm d:  | 21           |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 14                            | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 154                           | A pct aq2:  | 9            |
| A pct maq2: | 0                             | A pct pcm2: | 16           |
| A pct cm2:  | 75                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Medium                        | A sc lmaq1: | AQ           |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 25           |
| Pct pcm 1:  | 75                            | Pct na 1:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |         |             |     |
|----------------|---------|-------------|-----|
| Pct aq 2:      | 0       | Pct maq 2:  | 0   |
| Pct cm 2:      | 100     | Pct pcm 2:  | 0   |
| Pct na 2:      | 0       | Pct aq 3:   | 0   |
| Pct maq 3:     | 0       | Pct cm 3:   | 100 |
| Pct pcm 3:     | 0       | Pct na 3:   | 0   |
| Pct aq 4:      | 0       | Pct maq 4:  | 0   |
| Pct cm 4:      | 100     | Pct pcm 4:  | 0   |
| Pct na 4:      | 0       | Pct aq 5:   | 0   |
| Pct maq 5:     | 0       | Pct cm 5:   | 100 |
| Pct pcm 5:     | 0       | Pct na 5:   | 0   |
| Pct aq 6:      | 0       | Pct maq 6:  | 0   |
| Pct cm 6:      | 100     | Pct pcm 6:  | 0   |
| Pct na 6:      | 0       | Pct aq 7:   | 0   |
| Pct maq 7:     | 0       | Pct cm 7:   | 20  |
| Pct pcm 7:     | 80      | Pct na 7:   | 0   |
| Pct aq 8:      | 0       | Pct maq 8:  | 0   |
| Pct cm 8:      | 0       | Pct pcm 8:  | 0   |
| Pct na 8:      | 0       | Pct aq 9:   | 0   |
| Pct maq 9:     | 0       | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0       | Pct na 9:   | 0   |
| Pct aq 10:     | 0       | Pct maq 10: | 0   |
| Pct cm 10:     | 0       | Pct pcm 10: | 0   |
| Pct na 10:     | 0       | Pct aq 11:  | 0   |
| Pct maq 11:    | 0       | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0       | Pct na 11:  | 0   |
| Pct aq 12:     | 0       | Pct maq 12: | 0   |
| Pct cm 12:     | 0       | Pct pcm 12: | 0   |
| Pct na 12:     | 0       | Pct aq 13:  | 0   |
| Pct maq 13:    | 0       | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0       | Pct na 13:  | 0   |
| Within sec:    | Y       | Loc match:  | Y   |
| Aq code 1:     | D       |             |     |
| Hit swl:       | F       |             |     |
| Athk2:         | 154     |             |     |
| Horiz Conduct: | .09115  |             |     |
| Vert Conduct:  | .00013  |             |     |
| T2:            | 14.0365 |             |     |
| D50plek:       | 4.86799 |             |     |

**C11**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000222742**

|             |                         |             |              |
|-------------|-------------------------|-------------|--------------|
| Wellid:     | 09000003861             | Import id:  | Not Reported |
| County:     | Bay                     | Township:   | Williams     |
| Town range: | 14N 03E                 | Section:    | 18           |
| Owner name: | PATRICIA DZURKA         |             |              |
| Well addr:  | 4534 FLAJOLE            |             |              |
| Well depth: | 118                     |             |              |
| Well type:  | Household               |             |              |
| Wssn:       | 0                       |             |              |
| Well num:   | Not Reported            | Driller id: | 2161         |
| Const date: | 2003-07-18 00:00:00.000 | Case type:  | PVC Plastic  |
| Case dia:   | 5                       |             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |               |
|-------------|-------------------------------|-------------|---------------|
| Case depth: | 110                           |             |               |
| Screen frm: | 110                           |             |               |
| Screen to:  | 118                           |             |               |
| Swl:        | 35                            |             |               |
| Test depth: | 118                           |             |               |
| Test hours: | 1                             |             |               |
| Test rate:  | 20                            | Test methd: | Air           |
| Grouted:    | 1                             | Pmp cpcity: | 12            |
| Latitude:   | 43.61070021                   |             |               |
| Longitude:  | -84.1484406                   |             |               |
| Methd coll: | Address Matching-House Number |             |               |
| Elevation:  | 656                           |             |               |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported  |
| Elev flag:  | Not Reported                  |             |               |
| Swl flag:   | Not Reported                  |             |               |
| Elev dem:   | 646                           | Elev dif:   | 10            |
| Elev miv:   | 656                           | Aq code:    | Drift Well    |
| Aq flag:    | Not Reported                  |             |               |
| Pct aq:     | 37                            |             |               |
| Pct aq d:   | 37                            | Pct aq r:   | 0             |
| Pct maq:    | 0                             | Pct maq d:  | 0             |
| Pct maq r:  | 0                             | Pct cm:     | 0             |
| Pct cm d:   | 0                             | Pct cm r:   | 0             |
| Pct pcm:    | 61                            | Pct pcm d:  | 61            |
| Pct pcm r:  | 0                             | Pct na:     | 2             |
| Pct na d:   | 2                             | Pct na r:   | 0             |
| Pct flag:   | Not Reported                  | Rock top:   | -1            |
| D r type:   | Not Reported                  | Spc cpcity: | 0             |
| A thicknes: | 44                            | A pct aq:   | 100           |
| A pct maq:  | 0                             | A pct pcm:  | 0             |
| A pct cm:   | 0                             | A pct na:   | 0             |
| A thickns2: | 83                            | A pct aq2:  | 53            |
| A pct maq2: | 0                             | A pct pcm2: | 47            |
| A pct cm2:  | 0                             | A pct na2:  | 0             |
| A hit swl:  | F                             | A hit top:  | F             |
| A hit rock: | F                             | A sc lith1: | Sand & Gravel |
| A sc lmod1: | Not Reported                  | A sc lmaq1: | AQ            |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported  |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported  |
| A sc lpct2: | 0                             | Pct aq 1:   | 0             |
| Pct maq 1:  | 0                             | Pct cm 1:   | 0             |
| Pct pcm 1:  | 90                            | Pct na 1:   | 10            |
| Pct aq 2:   | 0                             | Pct maq 2:  | 0             |
| Pct cm 2:   | 0                             | Pct pcm 2:  | 100           |
| Pct na 2:   | 0                             | Pct aq 3:   | 0             |
| Pct maq 3:  | 0                             | Pct cm 3:   | 0             |
| Pct pcm 3:  | 100                           | Pct na 3:   | 0             |
| Pct aq 4:   | 30                            | Pct maq 4:  | 0             |
| Pct cm 4:   | 0                             | Pct pcm 4:  | 70            |
| Pct na 4:   | 0                             | Pct aq 5:   | 100           |
| Pct maq 5:  | 0                             | Pct cm 5:   | 0             |
| Pct pcm 5:  | 0                             | Pct na 5:   | 0             |
| Pct aq 6:   | 0                             | Pct maq 6:  | 0             |
| Pct cm 6:   | 0                             | Pct pcm 6:  | 0             |
| Pct na 6:   | 0                             | Pct aq 7:   | 0             |
| Pct maq 7:  | 0                             | Pct cm 7:   | 0             |
| Pct pcm 7:  | 0                             | Pct na 7:   | 0             |
| Pct aq 8:   | 0                             | Pct maq 8:  | 0             |
| Pct cm 8:   | 0                             | Pct pcm 8:  | 0             |
| Pct na 8:   | 0                             | Pct aq 9:   | 0             |
| Pct maq 9:  | 0                             | Pct cm 9:   | 0             |
| Pct pcm 9:  | 0                             | Pct na 9:   | 0             |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |   |
|----------------|----------|-------------|---|
| Pct aq 10:     | 0        | Pct maq 10: | 0 |
| Pct cm 10:     | 0        | Pct pcm 10: | 0 |
| Pct na 10:     | 0        | Pct aq 11:  | 0 |
| Pct maq 11:    | 0        | Pct cm 11:  | 0 |
| Pct pcm 11:    | 0        | Pct na 11:  | 0 |
| Pct aq 12:     | 0        | Pct maq 12: | 0 |
| Pct cm 12:     | 0        | Pct pcm 12: | 0 |
| Pct na 12:     | 0        | Pct aq 13:  | 0 |
| Pct maq 13:    | 0        | Pct cm 13:  | 0 |
| Pct pcm 13:    | 0        | Pct na 13:  | 0 |
| Within sec:    | Y        | Loc match:  | Y |
| Aq code 1:     | D        |             |   |
| Hit swl:       | F        |             |   |
| Athk2:         | 83       |             |   |
| Horiz Conduct: | 53.48193 |             |   |
| Vert Conduct:  | 2.10446  |             |   |
| T2:            | 4439     |             |   |
| D50plek:       | 593.858  |             |   |

**12**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS**

**MI3000000222699**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001328                   | Import id:  | 09147320023  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | MILDRED VOSS                  |             |              |
| Well addr:  | 4552 VAL CT.                  |             |              |
| Well depth: | 96                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 1069         |
| Const date: | 1969-09-26 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 87                            |             |              |
| Screen frm: | 87                            |             |              |
| Screen to:  | 96                            |             |              |
| Swl:        | 32                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 0                             | Pmp cpcity: | 0            |
| Latitude:   | 43.610349997                  |             |              |
| Longitude:  | -84.1472307419                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 648                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 2            |
| Elev miv:   | 648                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 17                            |             |              |
| Pct aq d:   | 17                            | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 79           |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |              |
|----------------|--------------|-------------|--------------|
| Pct cm d:      | 79           | Pct cm r:   | 0            |
| Pct pcm:       | 4            | Pct pcm d:  | 4            |
| Pct pcm r:     | 0            | Pct na:     | 0            |
| Pct na d:      | 0            | Pct na r:   | 0            |
| Pct flag:      | Not Reported | Rock top:   | -1           |
| D r type:      | Not Reported | Spc cpcity: | 0            |
| A thicknes:    | 20           | A pct aq:   | 80           |
| A pct maq:     | 0            | A pct pcm:  | 20           |
| A pct cm:      | 0            | A pct na:   | 0            |
| A thickns2:    | 64           | A pct aq2:  | 25           |
| A pct maq2:    | 0            | A pct pcm2: | 6            |
| A pct cm2:     | 69           | A pct na2:  | 0            |
| A hit swl:     | F            | A hit top:  | F            |
| A hit rock:    | F            | A sc lith1: | Sand         |
| A sc lmod1:    | Not Reported | A sc lmaq1: | AQ           |
| A sc lpct1:    | 100          | A sc lith2: | Not Reported |
| A sc lmod2:    | Not Reported | A sc lmaq2: | Not Reported |
| A sc lpct2:    | 0            | Pct aq 1:   | 0            |
| Pct maq 1:     | 0            | Pct cm 1:   | 100          |
| Pct pcm 1:     | 0            | Pct na 1:   | 0            |
| Pct aq 2:      | 0            | Pct maq 2:  | 0            |
| Pct cm 2:      | 100          | Pct pcm 2:  | 0            |
| Pct na 2:      | 0            | Pct aq 3:   | 0            |
| Pct maq 3:     | 0            | Pct cm 3:   | 100          |
| Pct pcm 3:     | 0            | Pct na 3:   | 0            |
| Pct aq 4:      | 0            | Pct maq 4:  | 0            |
| Pct cm 4:      | 80           | Pct pcm 4:  | 20           |
| Pct na 4:      | 0            | Pct aq 5:   | 0            |
| Pct maq 5:     | 0            | Pct cm 5:   | 0            |
| Pct pcm 5:     | 0            | Pct na 5:   | 0            |
| Pct aq 6:      | 0            | Pct maq 6:  | 0            |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0            |
| Pct na 6:      | 0            | Pct aq 7:   | 0            |
| Pct maq 7:     | 0            | Pct cm 7:   | 0            |
| Pct pcm 7:     | 0            | Pct na 7:   | 0            |
| Pct aq 8:      | 0            | Pct maq 8:  | 0            |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0            |
| Pct na 8:      | 0            | Pct aq 9:   | 0            |
| Pct maq 9:     | 0            | Pct cm 9:   | 0            |
| Pct pcm 9:     | 0            | Pct na 9:   | 0            |
| Pct aq 10:     | 0            | Pct maq 10: | 0            |
| Pct cm 10:     | 0            | Pct pcm 10: | 0            |
| Pct na 10:     | 0            | Pct aq 11:  | 0            |
| Pct maq 11:    | 0            | Pct cm 11:  | 0            |
| Pct pcm 11:    | 0            | Pct na 11:  | 0            |
| Pct aq 12:     | 0            | Pct maq 12: | 0            |
| Pct cm 12:     | 0            | Pct pcm 12: | 0            |
| Pct na 12:     | 0            | Pct aq 13:  | 0            |
| Pct maq 13:    | 0            | Pct cm 13:  | 0            |
| Pct pcm 13:    | 0            | Pct na 13:  | 0            |
| Within sec:    | Y            | Loc match:  | Y            |
| Aq code 1:     | D            |             |              |
| Hit swl:       | F            |             |              |
| Athk2:         | 64           |             |              |
| Horiz Conduct: | 12.50013     |             |              |
| Vert Conduct:  | .00014       |             |              |
| T2:            | 800.0084     |             |              |
| D50plek:       | 90.1555      |             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

**D13**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS**

**MI3000000221872**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001317                   | Import id:  | 09147320012  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | ROBERT KASSANE                |             |              |
| Well addr:  | 4902 N RAYMOND RD             |             |              |
| Well depth: | 88                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 320          |
| Const date: | 1967-05-01 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 79                            |             |              |
| Screen frm: | 79                            |             |              |
| Screen to:  | 88                            |             |              |
| Swl:        | 35                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 0                             | Pmp cpcity: | 0            |
| Latitude:   | 43.5997642634                 |             |              |
| Longitude:  | -84.147340849                 |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 648                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 649                           | Elev dif:   | 1            |
| Elev miv:   | 648                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 17                            |             |              |
| Pct aq d:   | 17                            | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 77           |
| Pct cm d:   | 77                            | Pct cm r:   | 0            |
| Pct pcm:    | 6                             | Pct pcm d:  | 6            |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 16                            | A pct aq:   | 69           |
| A pct maq:  | 0                             | A pct pcm:  | 31           |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 53                            | A pct aq2:  | 21           |
| A pct maq2: | 0                             | A pct pcm2: | 9            |
| A pct cm2:  | 70                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Coarse                        | A sc lmaq1: | AQ           |
| A sc lpct1: | 56                            | A sc lith2: | Sand         |
| A sc lmod2: | Fine                          | A sc lmaq2: | AQ           |
| A sc lpct2: | 44                            | Pct aq 1:   | 20           |
| Pct maq 1:  | 0                             | Pct cm 1:   | 80           |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |     |
|----------------|----------|-------------|-----|
| Pct aq 2:      | 0        | Pct maq 2:  | 0   |
| Pct cm 2:      | 100      | Pct pcm 2:  | 0   |
| Pct na 2:      | 0        | Pct aq 3:   | 0   |
| Pct maq 3:     | 0        | Pct cm 3:   | 100 |
| Pct pcm 3:     | 0        | Pct na 3:   | 0   |
| Pct aq 4:      | 15       | Pct maq 4:  | 0   |
| Pct cm 4:      | 60       | Pct pcm 4:  | 25  |
| Pct na 4:      | 0        | Pct aq 5:   | 0   |
| Pct maq 5:     | 0        | Pct cm 5:   | 0   |
| Pct pcm 5:     | 0        | Pct na 5:   | 0   |
| Pct aq 6:      | 0        | Pct maq 6:  | 0   |
| Pct cm 6:      | 0        | Pct pcm 6:  | 0   |
| Pct na 6:      | 0        | Pct aq 7:   | 0   |
| Pct maq 7:     | 0        | Pct cm 7:   | 0   |
| Pct pcm 7:     | 0        | Pct na 7:   | 0   |
| Pct aq 8:      | 0        | Pct maq 8:  | 0   |
| Pct cm 8:      | 0        | Pct pcm 8:  | 0   |
| Pct na 8:      | 0        | Pct aq 9:   | 0   |
| Pct maq 9:     | 0        | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0        | Pct na 9:   | 0   |
| Pct aq 10:     | 0        | Pct maq 10: | 0   |
| Pct cm 10:     | 0        | Pct pcm 10: | 0   |
| Pct na 10:     | 0        | Pct aq 11:  | 0   |
| Pct maq 11:    | 0        | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0        | Pct na 11:  | 0   |
| Pct aq 12:     | 0        | Pct maq 12: | 0   |
| Pct cm 12:     | 0        | Pct pcm 12: | 0   |
| Pct na 12:     | 0        | Pct aq 13:  | 0   |
| Pct maq 13:    | 0        | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0        | Pct na 13:  | 0   |
| Within sec:    | Y        | Loc match:  | Y   |
| Aq code 1:     | D        |             |     |
| Hit swl:       | F        |             |     |
| Athk2:         | 53       |             |     |
| Horiz Conduct: | 15.10384 |             |     |
| Vert Conduct:  | .00014   |             |     |
| T2:            | 800.5037 |             |     |
| D50plek:       | 74.70376 |             |     |

**D14**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000221842**

|             |                         |             |             |
|-------------|-------------------------|-------------|-------------|
| Wellid:     | 09000001318             | Import id:  | 09147320013 |
| County:     | Bay                     | Township:   | Williams    |
| Town range: | 14N 03E                 | Section:    | 20          |
| Owner name: | ROBERT KAREUS           |             |             |
| Well addr:  | 4906 N. RAYMOND RD      |             |             |
| Well depth: | 95                      |             |             |
| Well type:  | Household               |             |             |
| Wssn:       | 0                       |             |             |
| Well num:   | Not Reported            | Driller id: | 320         |
| Const date: | 1966-09-23 00:00:00.000 | Case type:  | Steel-black |
| Case dia:   | 2                       |             |             |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Case depth: | 87                            |             |              |
| Screen frm: | 87                            |             |              |
| Screen to:  | 95                            |             |              |
| Swl:        | 37                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.5994998949                 |             |              |
| Longitude:  | -84.1472942797                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 649                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 3            |
| Elev miv:   | 649                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 21                            |             |              |
| Pct aq d:   | 21                            | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 79           |
| Pct cm d:   | 79                            | Pct cm r:   | 0            |
| Pct pcm:    | 0                             | Pct pcm d:  | 0            |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 15                            | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 58                            | A pct aq2:  | 26           |
| A pct maq2: | 0                             | A pct pcm2: | 0            |
| A pct cm2:  | 74                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Water Bearing                 | A sc lmaq1: | AQ           |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 25           |
| Pct maq 1:  | 0                             | Pct cm 1:   | 75           |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0            |
| Pct aq 2:   | 0                             | Pct maq 2:  | 0            |
| Pct cm 2:   | 100                           | Pct pcm 2:  | 0            |
| Pct na 2:   | 0                             | Pct aq 3:   | 0            |
| Pct maq 3:  | 0                             | Pct cm 3:   | 100          |
| Pct pcm 3:  | 0                             | Pct na 3:   | 0            |
| Pct aq 4:   | 0                             | Pct maq 4:  | 0            |
| Pct cm 4:   | 100                           | Pct pcm 4:  | 0            |
| Pct na 4:   | 0                             | Pct aq 5:   | 0            |
| Pct maq 5:  | 0                             | Pct cm 5:   | 0            |
| Pct pcm 5:  | 0                             | Pct na 5:   | 0            |
| Pct aq 6:   | 0                             | Pct maq 6:  | 0            |
| Pct cm 6:   | 0                             | Pct pcm 6:  | 0            |
| Pct na 6:   | 0                             | Pct aq 7:   | 0            |
| Pct maq 7:  | 0                             | Pct cm 7:   | 0            |
| Pct pcm 7:  | 0                             | Pct na 7:   | 0            |
| Pct aq 8:   | 0                             | Pct maq 8:  | 0            |
| Pct cm 8:   | 0                             | Pct pcm 8:  | 0            |
| Pct na 8:   | 0                             | Pct aq 9:   | 0            |
| Pct maq 9:  | 0                             | Pct cm 9:   | 0            |
| Pct pcm 9:  | 0                             | Pct na 9:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |   |
|----------------|----------|-------------|---|
| Pct aq 10:     | 0        | Pct maq 10: | 0 |
| Pct cm 10:     | 0        | Pct pcm 10: | 0 |
| Pct na 10:     | 0        | Pct aq 11:  | 0 |
| Pct maq 11:    | 0        | Pct cm 11:  | 0 |
| Pct pcm 11:    | 0        | Pct na 11:  | 0 |
| Pct aq 12:     | 0        | Pct maq 12: | 0 |
| Pct cm 12:     | 0        | Pct pcm 12: | 0 |
| Pct na 12:     | 0        | Pct aq 13:  | 0 |
| Pct maq 13:    | 0        | Pct cm 13:  | 0 |
| Pct pcm 13:    | 0        | Pct na 13:  | 0 |
| Within sec:    | Y        | Loc match:  | Y |
| Aq code 1:     | D        |             |   |
| Hit swl:       | F        |             |   |
| Athk2:         | 58       |             |   |
| Horiz Conduct: | 12.93111 |             |   |
| Vert Conduct:  | .00013   |             |   |
| T2:            | 750.0043 |             |   |
| D50plek:       | 76.86423 |             |   |

**D15**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000221928**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001320                   | Import id:  | 09147320015  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | HERBERT RIPKE SR              |             |              |
| Well addr:  | 4903 N. RAYMOND RD            |             |              |
| Well depth: | 93                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 320          |
| Const date: | 1971-07-26 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 84                            |             |              |
| Screen frm: | 84                            |             |              |
| Screen to:  | 93                            |             |              |
| Swl:        | 37                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6003378719                 |             |              |
| Longitude:  | -84.1465412302                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 648                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 2            |
| Elev miv:   | 648                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 15                            |             |              |
| Pct aq d:   | 15                            | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 81           |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |              |
|----------------|--------------|-------------|--------------|
| Pct cm d:      | 81           | Pct cm r:   | 0            |
| Pct pcm:       | 4            | Pct pcm d:  | 4            |
| Pct pcm r:     | 0            | Pct na:     | 0            |
| Pct na d:      | 0            | Pct na r:   | 0            |
| Pct flag:      | Not Reported | Rock top:   | -1           |
| D r type:      | Not Reported | Spc cpcity: | 0            |
| A thicknes:    | 15           | A pct aq:   | 73           |
| A pct maq:     | 0            | A pct pcm:  | 27           |
| A pct cm:      | 0            | A pct na:   | 0            |
| A thickns2:    | 56           | A pct aq2:  | 20           |
| A pct maq2:    | 0            | A pct pcm2: | 7            |
| A pct cm2:     | 73           | A pct na2:  | 0            |
| A hit swl:     | F            | A hit top:  | F            |
| A hit rock:    | F            | A sc lith1: | Sand         |
| A sc lmod1:    | Wet/Moist    | A sc lmaq1: | AQ           |
| A sc lpct1:    | 100          | A sc lith2: | Not Reported |
| A sc lmod2:    | Not Reported | A sc lmaq2: | Not Reported |
| A sc lpct2:    | 0            | Pct aq 1:   | 15           |
| Pct maq 1:     | 0            | Pct cm 1:   | 85           |
| Pct pcm 1:     | 0            | Pct na 1:   | 0            |
| Pct aq 2:      | 0            | Pct maq 2:  | 0            |
| Pct cm 2:      | 100          | Pct pcm 2:  | 0            |
| Pct na 2:      | 0            | Pct aq 3:   | 0            |
| Pct maq 3:     | 0            | Pct cm 3:   | 100          |
| Pct pcm 3:     | 0            | Pct na 3:   | 0            |
| Pct aq 4:      | 0            | Pct maq 4:  | 0            |
| Pct cm 4:      | 90           | Pct pcm 4:  | 10           |
| Pct na 4:      | 0            | Pct aq 5:   | 0            |
| Pct maq 5:     | 0            | Pct cm 5:   | 0            |
| Pct pcm 5:     | 0            | Pct na 5:   | 0            |
| Pct aq 6:      | 0            | Pct maq 6:  | 0            |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0            |
| Pct na 6:      | 0            | Pct aq 7:   | 0            |
| Pct maq 7:     | 0            | Pct cm 7:   | 0            |
| Pct pcm 7:     | 0            | Pct na 7:   | 0            |
| Pct aq 8:      | 0            | Pct maq 8:  | 0            |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0            |
| Pct na 8:      | 0            | Pct aq 9:   | 0            |
| Pct maq 9:     | 0            | Pct cm 9:   | 0            |
| Pct pcm 9:     | 0            | Pct na 9:   | 0            |
| Pct aq 10:     | 0            | Pct maq 10: | 0            |
| Pct cm 10:     | 0            | Pct pcm 10: | 0            |
| Pct na 10:     | 0            | Pct aq 11:  | 0            |
| Pct maq 11:    | 0            | Pct cm 11:  | 0            |
| Pct pcm 11:    | 0            | Pct na 11:  | 0            |
| Pct aq 12:     | 0            | Pct maq 12: | 0            |
| Pct cm 12:     | 0            | Pct pcm 12: | 0            |
| Pct na 12:     | 0            | Pct aq 13:  | 0            |
| Pct maq 13:    | 0            | Pct cm 13:  | 0            |
| Pct pcm 13:    | 0            | Pct na 13:  | 0            |
| Within sec:    | Y            | Loc match:  | Y            |
| Aq code 1:     | D            |             |              |
| Hit swl:       | F            |             |              |
| Athk2:         | 56           |             |              |
| Horiz Conduct: | 9.82507      |             |              |
| Vert Conduct:  | .00014       |             |              |
| T2:            | 550.2041     |             |              |
| D50plek:       | 55.37192     |             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

**D16**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS**

**MI3000000221816**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001319                   | Import id:  | 09147320014  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | TIMOTHY S. MAXWELL            |             |              |
| Well addr:  | 4943 N. RAYMOND RD            |             |              |
| Well depth: | 155                           |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 999          |
| Const date: | 1971-10-25 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 151                           |             |              |
| Screen frm: | 151                           |             |              |
| Screen to:  | 155                           |             |              |
| Swl:        | 80                            |             |              |
| Test depth: | 105                           |             |              |
| Test hours: | 4                             |             |              |
| Test rate:  | 7                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.5992618855                 |             |              |
| Longitude:  | -84.1466652679                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 649                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 3            |
| Elev miv:   | 649                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 3                             |             |              |
| Pct aq d:   | 3                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 85           |
| Pct cm d:   | 85                            | Pct cm r:   | 0            |
| Pct pcm:    | 0                             | Pct pcm d:  | 0            |
| Pct pcm r:  | 0                             | Pct na:     | 13           |
| Pct na d:   | 13                            | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 4                             | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 75                            | A pct aq2:  | 5            |
| A pct maq2: | 0                             | A pct pcm2: | 0            |
| A pct cm2:  | 95                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Wet/Moist                     | A sc lmaq1: | AQ           |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 0            |
| Pct pcm 1:  | 0                             | Pct na 1:   | 100          |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |     |
|----------------|----------|-------------|-----|
| Pct aq 2:      | 0        | Pct maq 2:  | 0   |
| Pct cm 2:      | 100      | Pct pcm 2:  | 0   |
| Pct na 2:      | 0        | Pct aq 3:   | 0   |
| Pct maq 3:     | 0        | Pct cm 3:   | 100 |
| Pct pcm 3:     | 0        | Pct na 3:   | 0   |
| Pct aq 4:      | 0        | Pct maq 4:  | 0   |
| Pct cm 4:      | 100      | Pct pcm 4:  | 0   |
| Pct na 4:      | 0        | Pct aq 5:   | 0   |
| Pct maq 5:     | 0        | Pct cm 5:   | 100 |
| Pct pcm 5:     | 0        | Pct na 5:   | 0   |
| Pct aq 6:      | 0        | Pct maq 6:  | 0   |
| Pct cm 6:      | 100      | Pct pcm 6:  | 0   |
| Pct na 6:      | 0        | Pct aq 7:   | 0   |
| Pct maq 7:     | 0        | Pct cm 7:   | 100 |
| Pct pcm 7:     | 0        | Pct na 7:   | 0   |
| Pct aq 8:      | 0        | Pct maq 8:  | 0   |
| Pct cm 8:      | 0        | Pct pcm 8:  | 0   |
| Pct na 8:      | 0        | Pct aq 9:   | 0   |
| Pct maq 9:     | 0        | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0        | Pct na 9:   | 0   |
| Pct aq 10:     | 0        | Pct maq 10: | 0   |
| Pct cm 10:     | 0        | Pct pcm 10: | 0   |
| Pct na 10:     | 0        | Pct aq 11:  | 0   |
| Pct maq 11:    | 0        | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0        | Pct na 11:  | 0   |
| Pct aq 12:     | 0        | Pct maq 12: | 0   |
| Pct cm 12:     | 0        | Pct pcm 12: | 0   |
| Pct na 12:     | 0        | Pct aq 13:  | 0   |
| Pct maq 13:    | 0        | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0        | Pct na 13:  | 0   |
| Within sec:    | Y        | Loc match:  | Y   |
| Aq code 1:     | D        |             |     |
| Hit swl:       | F        |             |     |
| Athk2:         | 75       |             |     |
| Horiz Conduct: | 2.66676  |             |     |
| Vert Conduct:  | .00011   |             |     |
| T2:            | 200.0071 |             |     |
| D50plek:       | 28.54841 |             |     |

**E17**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000221925**

|             |                         |             |             |
|-------------|-------------------------|-------------|-------------|
| Wellid:     | 09000001321             | Import id:  | 09147320016 |
| County:     | Bay                     | Township:   | Williams    |
| Town range: | 14N 03E                 | Section:    | 20          |
| Owner name: | HERB RIPKE JR           |             |             |
| Well addr:  | 4906 W. BIS RD          |             |             |
| Well depth: | 99                      |             |             |
| Well type:  | Household               |             |             |
| Wssn:       | 0                       |             |             |
| Well num:   | Not Reported            | Driller id: | 320         |
| Const date: | 1971-02-18 00:00:00.000 | Case type:  | Steel-black |
| Case dia:   | 2                       |             |             |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Case depth: | 90                            |             |              |
| Screen frm: | 90                            |             |              |
| Screen to:  | 99                            |             |              |
| Swl:        | 37                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6002707532                 |             |              |
| Longitude:  | -84.1459534383                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 647                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 643                           | Elev dif:   | 4            |
| Elev miv:   | 647                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 10                            |             |              |
| Pct aq d:   | 10                            | Pct aq r:   | 0            |
| Pct maq:    | 21                            | Pct maq d:  | 21           |
| Pct maq r:  | 0                             | Pct cm:     | 65           |
| Pct cm d:   | 65                            | Pct cm r:   | 0            |
| Pct pcm:    | 0                             | Pct pcm d:  | 0            |
| Pct pcm r:  | 0                             | Pct na:     | 4            |
| Pct na d:   | 4                             | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 31                            | A pct aq:   | 32           |
| A pct maq:  | 68                            | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 62                            | A pct aq2:  | 16           |
| A pct maq2: | 34                            | A pct pcm2: | 0            |
| A pct cm2:  | 50                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Fine                          | A sc lmaq1: | AQ           |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 80           |
| Pct pcm 1:  | 0                             | Pct na 1:   | 20           |
| Pct aq 2:   | 0                             | Pct maq 2:  | 0            |
| Pct cm 2:   | 100                           | Pct pcm 2:  | 0            |
| Pct na 2:   | 0                             | Pct aq 3:   | 0            |
| Pct maq 3:  | 0                             | Pct cm 3:   | 100          |
| Pct pcm 3:  | 0                             | Pct na 3:   | 0            |
| Pct aq 4:   | 0                             | Pct maq 4:  | 60           |
| Pct cm 4:   | 40                            | Pct pcm 4:  | 0            |
| Pct na 4:   | 0                             | Pct aq 5:   | 0            |
| Pct maq 5:  | 0                             | Pct cm 5:   | 0            |
| Pct pcm 5:  | 0                             | Pct na 5:   | 0            |
| Pct aq 6:   | 0                             | Pct maq 6:  | 0            |
| Pct cm 6:   | 0                             | Pct pcm 6:  | 0            |
| Pct na 6:   | 0                             | Pct aq 7:   | 0            |
| Pct maq 7:  | 0                             | Pct cm 7:   | 0            |
| Pct pcm 7:  | 0                             | Pct na 7:   | 0            |
| Pct aq 8:   | 0                             | Pct maq 8:  | 0            |
| Pct cm 8:   | 0                             | Pct pcm 8:  | 0            |
| Pct na 8:   | 0                             | Pct aq 9:   | 0            |
| Pct maq 9:  | 0                             | Pct cm 9:   | 0            |
| Pct pcm 9:  | 0                             | Pct na 9:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |   |
|----------------|----------|-------------|---|
| Pct aq 10:     | 0        | Pct maq 10: | 0 |
| Pct cm 10:     | 0        | Pct pcm 10: | 0 |
| Pct na 10:     | 0        | Pct aq 11:  | 0 |
| Pct maq 11:    | 0        | Pct cm 11:  | 0 |
| Pct pcm 11:    | 0        | Pct na 11:  | 0 |
| Pct aq 12:     | 0        | Pct maq 12: | 0 |
| Pct cm 12:     | 0        | Pct pcm 12: | 0 |
| Pct na 12:     | 0        | Pct aq 13:  | 0 |
| Pct maq 13:    | 0        | Pct cm 13:  | 0 |
| Pct pcm 13:    | 0        | Pct na 13:  | 0 |
| Within sec:    | Y        | Loc match:  | Y |
| Aq code 1:     | D        |             |   |
| Hit swl:       | F        |             |   |
| Athk2:         | 62       |             |   |
| Horiz Conduct: | 11.45166 |             |   |
| Vert Conduct:  | .0002    |             |   |
| T2:            | 710.0031 |             |   |
| D50plek:       | 78.01444 |             |   |

**18**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000223358**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001295                   | Import id:  | 09147318007  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 18           |
| Owner name: | BERNARD H BEYER               |             |              |
| Well addr:  | 2759 KIESEL RD                |             |              |
| Well depth: | 135                           |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 320          |
| Const date: | 1976-06-10 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 128                           |             |              |
| Screen frm: | 127                           |             |              |
| Screen to:  | 135                           |             |              |
| Swl:        | 32                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6189708498                 |             |              |
| Longitude:  | -84.1585965667                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 643                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 643                           | Elev dif:   | 0            |
| Elev miv:   | 643                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 9                             |             |              |
| Pct aq d:   | 9                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 70           |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |              |
|----------------|--------------|-------------|--------------|
| Pct cm d:      | 70           | Pct cm r:   | 0            |
| Pct pcm:       | 21           | Pct pcm d:  | 21           |
| Pct pcm r:     | 0            | Pct na:     | 0            |
| Pct na d:      | 0            | Pct na r:   | 0            |
| Pct flag:      | Not Reported | Rock top:   | -1           |
| D r type:      | Not Reported | Spc cpcity: | 0            |
| A thicknes:    | 20           | A pct aq:   | 60           |
| A pct maq:     | 0            | A pct pcm:  | 40           |
| A pct cm:      | 0            | A pct na:   | 0            |
| A thickns2:    | 103          | A pct aq2:  | 12           |
| A pct maq2:    | 0            | A pct pcm2: | 28           |
| A pct cm2:     | 60           | A pct na2:  | 0            |
| A hit swl:     | F            | A hit top:  | F            |
| A hit rock:    | F            | A sc lith1: | Sand         |
| A sc lmod1:    | Wet/Moist    | A sc lmaq1: | AQ           |
| A sc lpct1:    | 100          | A sc lith2: | Not Reported |
| A sc lmod2:    | Not Reported | A sc lmaq2: | Not Reported |
| A sc lpct2:    | 0            | Pct aq 1:   | 0            |
| Pct maq 1:     | 0            | Pct cm 1:   | 100          |
| Pct pcm 1:     | 0            | Pct na 1:   | 0            |
| Pct aq 2:      | 0            | Pct maq 2:  | 0            |
| Pct cm 2:      | 100          | Pct pcm 2:  | 0            |
| Pct na 2:      | 0            | Pct aq 3:   | 0            |
| Pct maq 3:     | 0            | Pct cm 3:   | 100          |
| Pct pcm 3:     | 0            | Pct na 3:   | 0            |
| Pct aq 4:      | 0            | Pct maq 4:  | 0            |
| Pct cm 4:      | 100          | Pct pcm 4:  | 0            |
| Pct na 4:      | 0            | Pct aq 5:   | 0            |
| Pct maq 5:     | 0            | Pct cm 5:   | 0            |
| Pct pcm 5:     | 100          | Pct na 5:   | 0            |
| Pct aq 6:      | 8            | Pct maq 6:  | 0            |
| Pct cm 6:      | 56           | Pct pcm 6:  | 36           |
| Pct na 6:      | 0            | Pct aq 7:   | 0            |
| Pct maq 7:     | 0            | Pct cm 7:   | 0            |
| Pct pcm 7:     | 0            | Pct na 7:   | 0            |
| Pct aq 8:      | 0            | Pct maq 8:  | 0            |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0            |
| Pct na 8:      | 0            | Pct aq 9:   | 0            |
| Pct maq 9:     | 0            | Pct cm 9:   | 0            |
| Pct pcm 9:     | 0            | Pct na 9:   | 0            |
| Pct aq 10:     | 0            | Pct maq 10: | 0            |
| Pct cm 10:     | 0            | Pct pcm 10: | 0            |
| Pct na 10:     | 0            | Pct aq 11:  | 0            |
| Pct maq 11:    | 0            | Pct cm 11:  | 0            |
| Pct pcm 11:    | 0            | Pct na 11:  | 0            |
| Pct aq 12:     | 0            | Pct maq 12: | 0            |
| Pct cm 12:     | 0            | Pct pcm 12: | 0            |
| Pct na 12:     | 0            | Pct aq 13:  | 0            |
| Pct maq 13:    | 0            | Pct cm 13:  | 0            |
| Pct pcm 13:    | 0            | Pct na 13:  | 0            |
| Within sec:    | Y            | Loc match:  | Y            |
| Aq code 1:     | D            |             |              |
| Hit swl:       | F            |             |              |
| Athk2:         | 103          |             |              |
| Horiz Conduct: | 11.65083     |             |              |
| Vert Conduct:  | .00016       |             |              |
| T2:            | 1200.0352    |             |              |
| D50plek:       | 212.98611    |             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**D19**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI3000000221871**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001322                   | Import id:  | 09147320017  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | FRANK JEZOWSKI                |             |              |
| Well addr:  | 4924 W. BIS RD                |             |              |
| Well depth: | 117                           |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 320          |
| Const date: | 1967-09-17 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 109                           |             |              |
| Screen frm: | 109                           |             |              |
| Screen to:  | 117                           |             |              |
| Swl:        | 35                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 0                             | Pmp cpcity: | 0            |
| Latitude:   | 43.5997544304                 |             |              |
| Longitude:  | -84.1459885014                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 647                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 1            |
| Elev miv:   | 647                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 8                             |             |              |
| Pct aq d:   | 8                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 69           |
| Pct cm d:   | 69                            | Pct cm r:   | 0            |
| Pct pcm:    | 23                            | Pct pcm d:  | 23           |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 9                             | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 82                            | A pct aq2:  | 11           |
| A pct maq2: | 0                             | A pct pcm2: | 33           |
| A pct cm2:  | 56                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Fine                          | A sc lmaq1: | AQ           |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 100          |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |     |
|----------------|----------|-------------|-----|
| Pct aq 2:      | 0        | Pct maq 2:  | 0   |
| Pct cm 2:      | 100      | Pct pcm 2:  | 0   |
| Pct na 2:      | 0        | Pct aq 3:   | 0   |
| Pct maq 3:     | 0        | Pct cm 3:   | 100 |
| Pct pcm 3:     | 0        | Pct na 3:   | 0   |
| Pct aq 4:      | 0        | Pct maq 4:  | 0   |
| Pct cm 4:      | 40       | Pct pcm 4:  | 60  |
| Pct na 4:      | 0        | Pct aq 5:   | 0   |
| Pct maq 5:     | 0        | Pct cm 5:   | 25  |
| Pct pcm 5:     | 75       | Pct na 5:   | 0   |
| Pct aq 6:      | 0        | Pct maq 6:  | 0   |
| Pct cm 6:      | 0        | Pct pcm 6:  | 0   |
| Pct na 6:      | 0        | Pct aq 7:   | 0   |
| Pct maq 7:     | 0        | Pct cm 7:   | 0   |
| Pct pcm 7:     | 0        | Pct na 7:   | 0   |
| Pct aq 8:      | 0        | Pct maq 8:  | 0   |
| Pct cm 8:      | 0        | Pct pcm 8:  | 0   |
| Pct na 8:      | 0        | Pct aq 9:   | 0   |
| Pct maq 9:     | 0        | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0        | Pct na 9:   | 0   |
| Pct aq 10:     | 0        | Pct maq 10: | 0   |
| Pct cm 10:     | 0        | Pct pcm 10: | 0   |
| Pct na 10:     | 0        | Pct aq 11:  | 0   |
| Pct maq 11:    | 0        | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0        | Pct na 11:  | 0   |
| Pct aq 12:     | 0        | Pct maq 12: | 0   |
| Pct cm 12:     | 0        | Pct pcm 12: | 0   |
| Pct na 12:     | 0        | Pct aq 13:  | 0   |
| Pct maq 13:    | 0        | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0        | Pct na 13:  | 0   |
| Within sec:    | Y        | Loc match:  | Y   |
| Aq code 1:     | D        |             |     |
| Hit swl:       | F        |             |     |
| Athk2:         | 82       |             |     |
| Horiz Conduct: | 2.75998  |             |     |
| Vert Conduct:  | .00017   |             |     |
| T2:            | 226.3186 |             |     |
| D50plek:       | 35.06638 |             |     |

**20  
NE  
1/2 - 1 Mile  
Lower**

**MI WELLS      MI3000000223155**

|             |                         |             |             |
|-------------|-------------------------|-------------|-------------|
| Wellid:     | 09000001298             | Import id:  | 09147318010 |
| County:     | Bay                     | Township:   | Williams    |
| Town range: | 14N 03E                 | Section:    | 18          |
| Owner name: | WILLIAM BEDTELSON       |             |             |
| Well addr:  | 4396 S. FLAJOLE RD      |             |             |
| Well depth: | 87                      |             |             |
| Well type:  | Household               |             |             |
| Wssn:       | 0                       |             |             |
| Well num:   | Not Reported            | Driller id: | 1110        |
| Const date: | 1977-09-12 00:00:00.000 | Case type:  | Steel-black |
| Case dia:   | 2                       |             |             |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Case depth: | 81                            |             |              |
| Screen frm: | 81                            |             |              |
| Screen to:  | 87                            |             |              |
| Swl:        | 45                            |             |              |
| Test depth: | 75                            |             |              |
| Test hours: | 2                             |             |              |
| Test rate:  | 10                            | Test methd: | Unknown      |
| Grouted:    | 0                             | Pmp cpcity: | 0            |
| Latitude:   | 43.614866165                  |             |              |
| Longitude:  | -84.1489742778                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 653                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 649                           | Elev dif:   | 4            |
| Elev miv:   | 653                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 8                             |             |              |
| Pct aq d:   | 8                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 57           |
| Pct cm d:   | 57                            | Pct cm r:   | 0            |
| Pct pcm:    | 16                            | Pct pcm d:  | 16           |
| Pct pcm r:  | 0                             | Pct na:     | 18           |
| Pct na d:   | 18                            | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 7                             | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 42                            | A pct aq2:  | 17           |
| A pct maq2: | 0                             | A pct pcm2: | 33           |
| A pct cm2:  | 50                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Fine To Medium                | A sc lmaq1: | AQ           |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 20           |
| Pct pcm 1:  | 0                             | Pct na 1:   | 80           |
| Pct aq 2:   | 0                             | Pct maq 2:  | 0            |
| Pct cm 2:   | 100                           | Pct pcm 2:  | 0            |
| Pct na 2:   | 0                             | Pct aq 3:   | 0            |
| Pct maq 3:  | 0                             | Pct cm 3:   | 100          |
| Pct pcm 3:  | 0                             | Pct na 3:   | 0            |
| Pct aq 4:   | 0                             | Pct maq 4:  | 0            |
| Pct cm 4:   | 30                            | Pct pcm 4:  | 70           |
| Pct na 4:   | 0                             | Pct aq 5:   | 0            |
| Pct maq 5:  | 0                             | Pct cm 5:   | 0            |
| Pct pcm 5:  | 0                             | Pct na 5:   | 0            |
| Pct aq 6:   | 0                             | Pct maq 6:  | 0            |
| Pct cm 6:   | 0                             | Pct pcm 6:  | 0            |
| Pct na 6:   | 0                             | Pct aq 7:   | 0            |
| Pct maq 7:  | 0                             | Pct cm 7:   | 0            |
| Pct pcm 7:  | 0                             | Pct na 7:   | 0            |
| Pct aq 8:   | 0                             | Pct maq 8:  | 0            |
| Pct cm 8:   | 0                             | Pct pcm 8:  | 0            |
| Pct na 8:   | 0                             | Pct aq 9:   | 0            |
| Pct maq 9:  | 0                             | Pct cm 9:   | 0            |
| Pct pcm 9:  | 0                             | Pct na 9:   | 0            |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |   |
|----------------|----------|-------------|---|
| Pct aq 10:     | 0        | Pct maq 10: | 0 |
| Pct cm 10:     | 0        | Pct pcm 10: | 0 |
| Pct na 10:     | 0        | Pct aq 11:  | 0 |
| Pct maq 11:    | 0        | Pct cm 11:  | 0 |
| Pct pcm 11:    | 0        | Pct na 11:  | 0 |
| Pct aq 12:     | 0        | Pct maq 12: | 0 |
| Pct cm 12:     | 0        | Pct pcm 12: | 0 |
| Pct na 12:     | 0        | Pct aq 13:  | 0 |
| Pct maq 13:    | 0        | Pct cm 13:  | 0 |
| Pct pcm 13:    | 0        | Pct na 13:  | 0 |
| Within sec:    | Y        | Loc match:  | Y |
| Aq code 1:     | D        |             |   |
| Hit swl:       | F        |             |   |
| Athk2:         | 42       |             |   |
| Horiz Conduct: | 4.16705  |             |   |
| Vert Conduct:  | .00019   |             |   |
| T2:            | 175.0161 |             |   |
| D50plek:       | 14.09924 |             |   |

**E21**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS**

**MI3000000221836**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001323                   | Import id:  | 09147320018  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | DON TRAXLER                   |             |              |
| Well addr:  | 4936 W. BIS RD                |             |              |
| Well depth: | 96                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 320          |
| Const date: | 1972-08-05 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 88                            |             |              |
| Screen frm: | 88                            |             |              |
| Screen to:  | 96                            |             |              |
| Swl:        | 37                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.5994467885                 |             |              |
| Longitude:  | -84.1460034098                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 647                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 1            |
| Elev miv:   | 647                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 10                            |             |              |
| Pct aq d:   | 10                            | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 90           |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |              |
|----------------|--------------|-------------|--------------|
| Pct cm d:      | 90           | Pct cm r:   | 0            |
| Pct pcm:       | 0            | Pct pcm d:  | 0            |
| Pct pcm r:     | 0            | Pct na:     | 0            |
| Pct na d:      | 0            | Pct na r:   | 0            |
| Pct flag:      | Not Reported | Rock top:   | -1           |
| D r type:      | Not Reported | Spc cpcity: | 0            |
| A thicknes:    | 10           | A pct aq:   | 100          |
| A pct maq:     | 0            | A pct pcm:  | 0            |
| A pct cm:      | 0            | A pct na:   | 0            |
| A thickns2:    | 59           | A pct aq2:  | 17           |
| A pct maq2:    | 0            | A pct pcm2: | 0            |
| A pct cm2:     | 83           | A pct na2:  | 0            |
| A hit swl:     | F            | A hit top:  | F            |
| A hit rock:    | F            | A sc lith1: | Sand         |
| A sc lmod1:    | Fine         | A sc lmaq1: | AQ           |
| A sc lpct1:    | 100          | A sc lith2: | Not Reported |
| A sc lmod2:    | Not Reported | A sc lmaq2: | Not Reported |
| A sc lpct2:    | 0            | Pct aq 1:   | 0            |
| Pct maq 1:     | 0            | Pct cm 1:   | 100          |
| Pct pcm 1:     | 0            | Pct na 1:   | 0            |
| Pct aq 2:      | 0            | Pct maq 2:  | 0            |
| Pct cm 2:      | 100          | Pct pcm 2:  | 0            |
| Pct na 2:      | 0            | Pct aq 3:   | 0            |
| Pct maq 3:     | 0            | Pct cm 3:   | 100          |
| Pct pcm 3:     | 0            | Pct na 3:   | 0            |
| Pct aq 4:      | 0            | Pct maq 4:  | 0            |
| Pct cm 4:      | 100          | Pct pcm 4:  | 0            |
| Pct na 4:      | 0            | Pct aq 5:   | 0            |
| Pct maq 5:     | 0            | Pct cm 5:   | 0            |
| Pct pcm 5:     | 0            | Pct na 5:   | 0            |
| Pct aq 6:      | 0            | Pct maq 6:  | 0            |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0            |
| Pct na 6:      | 0            | Pct aq 7:   | 0            |
| Pct maq 7:     | 0            | Pct cm 7:   | 0            |
| Pct pcm 7:     | 0            | Pct na 7:   | 0            |
| Pct aq 8:      | 0            | Pct maq 8:  | 0            |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0            |
| Pct na 8:      | 0            | Pct aq 9:   | 0            |
| Pct maq 9:     | 0            | Pct cm 9:   | 0            |
| Pct pcm 9:     | 0            | Pct na 9:   | 0            |
| Pct aq 10:     | 0            | Pct maq 10: | 0            |
| Pct cm 10:     | 0            | Pct pcm 10: | 0            |
| Pct na 10:     | 0            | Pct aq 11:  | 0            |
| Pct maq 11:    | 0            | Pct cm 11:  | 0            |
| Pct pcm 11:    | 0            | Pct na 11:  | 0            |
| Pct aq 12:     | 0            | Pct maq 12: | 0            |
| Pct cm 12:     | 0            | Pct pcm 12: | 0            |
| Pct na 12:     | 0            | Pct aq 13:  | 0            |
| Pct maq 13:    | 0            | Pct cm 13:  | 0            |
| Pct pcm 13:    | 0            | Pct na 13:  | 0            |
| Within sec:    | Y            | Loc match:  | Y            |
| Aq code 1:     | D            |             |              |
| Hit swl:       | F            |             |              |
| Athk2:         | 59           |             |              |
| Horiz Conduct: | 4.23737      |             |              |
| Vert Conduct:  | .00012       |             |              |
| T2:            | 250.0049     |             |              |
| D50plek:       | 27.71163     |             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

**E22**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS**

**MI3000000221952**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001327                   | Import id:  | 09147320022  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | AL HOCKSTRA                   |             |              |
| Well addr:  | 4895 W. BIS RD                |             |              |
| Well depth: | 102                           |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 320          |
| Const date: | 1976-07-16 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 94                            |             |              |
| Screen frm: | 94                            |             |              |
| Screen to:  | 102                           |             |              |
| Swl:        | 41                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6005873303                 |             |              |
| Longitude:  | -84.1452733076                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 646                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 643                           | Elev dif:   | 3            |
| Elev miv:   | 646                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 0                             |             |              |
| Pct aq d:   | 0                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 0            |
| Pct cm d:   | 0                             | Pct cm r:   | 0            |
| Pct pcm:    | 0                             | Pct pcm d:  | 0            |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | ?                             | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 10                            | A pct aq:   | 100          |
| A pct maq:  | 0                             | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 63                            | A pct aq2:  | 16           |
| A pct maq2: | 0                             | A pct pcm2: | 0            |
| A pct cm2:  | 84                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Not Reported |
| A sc lmod1: | Not Reported                  | A sc lmaq1: | Not Reported |
| A sc lpct1: | 0                             | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 90           |
| Pct pcm 1:  | 0                             | Pct na 1:   | 10           |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |     |
|----------------|--------------|-------------|-----|
| Pct aq 2:      | 0            | Pct maq 2:  | 0   |
| Pct cm 2:      | 100          | Pct pcm 2:  | 0   |
| Pct na 2:      | 0            | Pct aq 3:   | 0   |
| Pct maq 3:     | 0            | Pct cm 3:   | 100 |
| Pct pcm 3:     | 0            | Pct na 3:   | 0   |
| Pct aq 4:      | 0            | Pct maq 4:  | 0   |
| Pct cm 4:      | 100          | Pct pcm 4:  | 0   |
| Pct na 4:      | 0            | Pct aq 5:   | 40  |
| Pct maq 5:     | 0            | Pct cm 5:   | 60  |
| Pct pcm 5:     | 0            | Pct na 5:   | 0   |
| Pct aq 6:      | 0            | Pct maq 6:  | 0   |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0   |
| Pct na 6:      | 0            | Pct aq 7:   | 0   |
| Pct maq 7:     | 0            | Pct cm 7:   | 0   |
| Pct pcm 7:     | 0            | Pct na 7:   | 0   |
| Pct aq 8:      | 0            | Pct maq 8:  | 0   |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0   |
| Pct na 8:      | 0            | Pct aq 9:   | 0   |
| Pct maq 9:     | 0            | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0            | Pct na 9:   | 0   |
| Pct aq 10:     | 0            | Pct maq 10: | 0   |
| Pct cm 10:     | 0            | Pct pcm 10: | 0   |
| Pct na 10:     | 0            | Pct aq 11:  | 0   |
| Pct maq 11:    | 0            | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0            | Pct na 11:  | 0   |
| Pct aq 12:     | 0            | Pct maq 12: | 0   |
| Pct cm 12:     | 0            | Pct pcm 12: | 0   |
| Pct na 12:     | 0            | Pct aq 13:  | 0   |
| Pct maq 13:    | 0            | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0            | Pct na 13:  | 0   |
| Within sec:    | Y            | Loc match:  | Y   |
| Aq code 1:     | Not Reported |             |     |
| Hit swl:       | Not Reported |             |     |
| Athk2:         | 0            |             |     |
| Horiz Conduct: | 0            |             |     |
| Vert Conduct:  | 0            |             |     |
| T2:            | 0            |             |     |
| D50plek:       | 0            |             |     |

**23**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000221812**

|             |                         |             |             |
|-------------|-------------------------|-------------|-------------|
| Wellid:     | 09000001324             | Import id:  | 09147320019 |
| County:     | Bay                     | Township:   | Williams    |
| Town range: | 14N 03E                 | Section:    | 20          |
| Owner name: | LEO CZERWINSKI          |             |             |
| Well addr:  | 4946 W. BIS RD          |             |             |
| Well depth: | 95                      |             |             |
| Well type:  | Household               |             |             |
| Wssn:       | 0                       |             |             |
| Well num:   | Not Reported            | Driller id: | 320         |
| Const date: | 1968-06-28 00:00:00.000 | Case type:  | Steel-black |
| Case dia:   | 2                       |             |             |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Case depth: | 88                            |             |              |
| Screen frm: | 88                            |             |              |
| Screen to:  | 95                            |             |              |
| Swl:        | 32                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 0                             | Pmp cpcity: | 0            |
| Latitude:   | 43.5992053227                 |             |              |
| Longitude:  | -84.1460394426                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 648                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 646                           | Elev dif:   | 2            |
| Elev miv:   | 648                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 0                             |             |              |
| Pct aq d:   | 0                             | Pct aq r:   | 0            |
| Pct maq:    | 14                            | Pct maq d:  | 14           |
| Pct maq r:  | 0                             | Pct cm:     | 67           |
| Pct cm d:   | 67                            | Pct cm r:   | 0            |
| Pct pcm:    | 19                            | Pct pcm d:  | 19           |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 13                            | A pct aq:   | 0            |
| A pct maq:  | 100                           | A pct pcm:  | 0            |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 63                            | A pct aq2:  | 0            |
| A pct maq2: | 21                            | A pct pcm2: | 29           |
| A pct cm2:  | 51                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | W/Clay                        | A sc lmaq1: | MAQ          |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 100          |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0            |
| Pct aq 2:   | 0                             | Pct maq 2:  | 0            |
| Pct cm 2:   | 100                           | Pct pcm 2:  | 0            |
| Pct na 2:   | 0                             | Pct aq 3:   | 0            |
| Pct maq 3:  | 0                             | Pct cm 3:   | 100          |
| Pct pcm 3:  | 0                             | Pct na 3:   | 0            |
| Pct aq 4:   | 0                             | Pct maq 4:  | 0            |
| Pct cm 4:   | 20                            | Pct pcm 4:  | 80           |
| Pct na 4:   | 0                             | Pct aq 5:   | 0            |
| Pct maq 5:  | 0                             | Pct cm 5:   | 0            |
| Pct pcm 5:  | 0                             | Pct na 5:   | 0            |
| Pct aq 6:   | 0                             | Pct maq 6:  | 0            |
| Pct cm 6:   | 0                             | Pct pcm 6:  | 0            |
| Pct na 6:   | 0                             | Pct aq 7:   | 0            |
| Pct maq 7:  | 0                             | Pct cm 7:   | 0            |
| Pct pcm 7:  | 0                             | Pct na 7:   | 0            |
| Pct aq 8:   | 0                             | Pct maq 8:  | 0            |
| Pct cm 8:   | 0                             | Pct pcm 8:  | 0            |
| Pct na 8:   | 0                             | Pct aq 9:   | 0            |
| Pct maq 9:  | 0                             | Pct cm 9:   | 0            |
| Pct pcm 9:  | 0                             | Pct na 9:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |         |             |   |
|----------------|---------|-------------|---|
| Pct aq 10:     | 0       | Pct maq 10: | 0 |
| Pct cm 10:     | 0       | Pct pcm 10: | 0 |
| Pct na 10:     | 0       | Pct aq 11:  | 0 |
| Pct maq 11:    | 0       | Pct cm 11:  | 0 |
| Pct pcm 11:    | 0       | Pct na 11:  | 0 |
| Pct aq 12:     | 0       | Pct maq 12: | 0 |
| Pct cm 12:     | 0       | Pct pcm 12: | 0 |
| Pct na 12:     | 0       | Pct aq 13:  | 0 |
| Pct maq 13:    | 0       | Pct cm 13:  | 0 |
| Pct pcm 13:    | 0       | Pct na 13:  | 0 |
| Within sec:    | Y       | Loc match:  | Y |
| Aq code 1:     | D       |             |   |
| Hit swl:       | F       |             |   |
| Athk2:         | 63      |             |   |
| Horiz Conduct: | 1.03208 |             |   |
| Vert Conduct:  | .00019  |             |   |
| T2:            | 65.0212 |             |   |
| D50plek:       | 8.34256 |             |   |

**24**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI3000000222848**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001306                   | Import id:  | 09147320001  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | TOM WHITE                     |             |              |
| Well addr:  | 2449 W. N. UNION RD           |             |              |
| Well depth: | 78                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 241          |
| Const date: | 1972-12-27 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 4                             |             |              |
| Case depth: | 73                            |             |              |
| Screen frm: | 73                            |             |              |
| Screen to:  | 78                            |             |              |
| Swl:        | 15                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 0                             | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.6113763752                 |             |              |
| Longitude:  | -84.1456416995                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 646                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 643                           | Elev dif:   | 3            |
| Elev miv:   | 646                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 0                             |             |              |
| Pct aq d:   | 0                             | Pct aq r:   | 0            |
| Pct maq:    | 0                             | Pct maq d:  | 0            |
| Pct maq r:  | 0                             | Pct cm:     | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |              |             |              |
|----------------|--------------|-------------|--------------|
| Pct cm d:      | 0            | Pct cm r:   | 0            |
| Pct pcm:       | 0            | Pct pcm d:  | 0            |
| Pct pcm r:     | 0            | Pct na:     | 0            |
| Pct na d:      | 0            | Pct na r:   | 0            |
| Pct flag:      | ?            | Rock top:   | -1           |
| D r type:      | Not Reported | Spc cpcity: | 0            |
| A thicknes:    | 63           | A pct aq:   | 100          |
| A pct maq:     | 0            | A pct pcm:  | 0            |
| A pct cm:      | 0            | A pct na:   | 0            |
| A thickns2:    | 63           | A pct aq2:  | 100          |
| A pct maq2:    | 0            | A pct pcm2: | 0            |
| A pct cm2:     | 0            | A pct na2:  | 0            |
| A hit swl:     | T            | A hit top:  | F            |
| A hit rock:    | F            | A sc lith1: | Not Reported |
| A sc lmod1:    | Not Reported | A sc lmaq1: | Not Reported |
| A sc lpct1:    | 0            | A sc lith2: | Not Reported |
| A sc lmod2:    | Not Reported | A sc lmaq2: | Not Reported |
| A sc lpct2:    | 0            | Pct aq 1:   | 79           |
| Pct maq 1:     | 0            | Pct cm 1:   | 21           |
| Pct pcm 1:     | 0            | Pct na 1:   | 0            |
| Pct aq 2:      | 100          | Pct maq 2:  | 0            |
| Pct cm 2:      | 0            | Pct pcm 2:  | 0            |
| Pct na 2:      | 0            | Pct aq 3:   | 61           |
| Pct maq 3:     | 0            | Pct cm 3:   | 39           |
| Pct pcm 3:     | 0            | Pct na 3:   | 0            |
| Pct aq 4:      | 84           | Pct maq 4:  | 0            |
| Pct cm 4:      | 16           | Pct pcm 4:  | 0            |
| Pct na 4:      | 0            | Pct aq 5:   | 0            |
| Pct maq 5:     | 0            | Pct cm 5:   | 0            |
| Pct pcm 5:     | 0            | Pct na 5:   | 0            |
| Pct aq 6:      | 0            | Pct maq 6:  | 0            |
| Pct cm 6:      | 0            | Pct pcm 6:  | 0            |
| Pct na 6:      | 0            | Pct aq 7:   | 0            |
| Pct maq 7:     | 0            | Pct cm 7:   | 0            |
| Pct pcm 7:     | 0            | Pct na 7:   | 0            |
| Pct aq 8:      | 0            | Pct maq 8:  | 0            |
| Pct cm 8:      | 0            | Pct pcm 8:  | 0            |
| Pct na 8:      | 0            | Pct aq 9:   | 0            |
| Pct maq 9:     | 0            | Pct cm 9:   | 0            |
| Pct pcm 9:     | 0            | Pct na 9:   | 0            |
| Pct aq 10:     | 0            | Pct maq 10: | 0            |
| Pct cm 10:     | 0            | Pct pcm 10: | 0            |
| Pct na 10:     | 0            | Pct aq 11:  | 0            |
| Pct maq 11:    | 0            | Pct cm 11:  | 0            |
| Pct pcm 11:    | 0            | Pct na 11:  | 0            |
| Pct aq 12:     | 0            | Pct maq 12: | 0            |
| Pct cm 12:     | 0            | Pct pcm 12: | 0            |
| Pct na 12:     | 0            | Pct aq 13:  | 0            |
| Pct maq 13:    | 0            | Pct cm 13:  | 0            |
| Pct pcm 13:    | 0            | Pct na 13:  | 0            |
| Within sec:    | Y            | Loc match:  | Y            |
| Aq code 1:     | Not Reported |             |              |
| Hit swl:       | Not Reported |             |              |
| Athk2:         | 0            |             |              |
| Horiz Conduct: | 0            |             |              |
| Vert Conduct:  | 0            |             |              |
| T2:            | 0            |             |              |
| D50plek:       | 0            |             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

**E25**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS**

**MI3000000221890**

|             |                               |             |              |
|-------------|-------------------------------|-------------|--------------|
| Wellid:     | 09000001326                   | Import id:  | 09147320021  |
| County:     | Bay                           | Township:   | Williams     |
| Town range: | 14N 03E                       | Section:    | 20           |
| Owner name: | TERRY REVARD                  |             |              |
| Well addr:  | 4915 W. BIS RD                |             |              |
| Well depth: | 92                            |             |              |
| Well type:  | Household                     |             |              |
| Wssn:       | 0                             |             |              |
| Well num:   | Not Reported                  | Driller id: | 1069         |
| Const date: | 1977-04-14 00:00:00.000       | Case type:  | Steel-black  |
| Case dia:   | 2                             |             |              |
| Case depth: | 81                            |             |              |
| Screen frm: | 81                            |             |              |
| Screen to:  | 92                            |             |              |
| Swl:        | 50                            |             |              |
| Test depth: | 0                             |             |              |
| Test hours: | 0                             |             |              |
| Test rate:  | 12                            | Test methd: | Unknown      |
| Grouted:    | 1                             | Pmp cpcity: | 0            |
| Latitude:   | 43.5999618152                 |             |              |
| Longitude:  | -84.1453714487                |             |              |
| Methd coll: | Interpolation-Map             |             |              |
| Elevation:  | 647                           |             |              |
| Elev methd: | Topographoc Map Interpolation | Depth flag: | Not Reported |
| Elev flag:  | Not Reported                  |             |              |
| Swl flag:   | Not Reported                  |             |              |
| Elev dem:   | 643                           | Elev dif:   | 4            |
| Elev miv:   | 647                           | Aq code:    | Drift Well   |
| Aq flag:    | Not Reported                  |             |              |
| Pct aq:     | 14                            |             |              |
| Pct aq d:   | 14                            | Pct aq r:   | 0            |
| Pct maq:    | 4                             | Pct maq d:  | 4            |
| Pct maq r:  | 0                             | Pct cm:     | 74           |
| Pct cm d:   | 74                            | Pct cm r:   | 0            |
| Pct pcm:    | 8                             | Pct pcm d:  | 8            |
| Pct pcm r:  | 0                             | Pct na:     | 0            |
| Pct na d:   | 0                             | Pct na r:   | 0            |
| Pct flag:   | Not Reported                  | Rock top:   | -1           |
| D r type:   | Not Reported                  | Spc cpcity: | 0            |
| A thicknes: | 24                            | A pct aq:   | 54           |
| A pct maq:  | 17                            | A pct pcm:  | 29           |
| A pct cm:   | 0                             | A pct na:   | 0            |
| A thickns2: | 42                            | A pct aq2:  | 31           |
| A pct maq2: | 10                            | A pct pcm2: | 17           |
| A pct cm2:  | 43                            | A pct na2:  | 0            |
| A hit swl:  | F                             | A hit top:  | F            |
| A hit rock: | F                             | A sc lith1: | Sand         |
| A sc lmod1: | Fine                          | A sc lmaq1: | AQ           |
| A sc lpct1: | 100                           | A sc lith2: | Not Reported |
| A sc lmod2: | Not Reported                  | A sc lmaq2: | Not Reported |
| A sc lpct2: | 0                             | Pct aq 1:   | 0            |
| Pct maq 1:  | 0                             | Pct cm 1:   | 100          |
| Pct pcm 1:  | 0                             | Pct na 1:   | 0            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                |          |             |     |
|----------------|----------|-------------|-----|
| Pct aq 2:      | 0        | Pct maq 2:  | 0   |
| Pct cm 2:      | 100      | Pct pcm 2:  | 0   |
| Pct na 2:      | 0        | Pct aq 3:   | 0   |
| Pct maq 3:     | 0        | Pct cm 3:   | 100 |
| Pct pcm 3:     | 0        | Pct na 3:   | 0   |
| Pct aq 4:      | 5        | Pct maq 4:  | 20  |
| Pct cm 4:      | 40       | Pct pcm 4:  | 35  |
| Pct na 4:      | 0        | Pct aq 5:   | 0   |
| Pct maq 5:     | 0        | Pct cm 5:   | 0   |
| Pct pcm 5:     | 0        | Pct na 5:   | 0   |
| Pct aq 6:      | 0        | Pct maq 6:  | 0   |
| Pct cm 6:      | 0        | Pct pcm 6:  | 0   |
| Pct na 6:      | 0        | Pct aq 7:   | 0   |
| Pct maq 7:     | 0        | Pct cm 7:   | 0   |
| Pct pcm 7:     | 0        | Pct na 7:   | 0   |
| Pct aq 8:      | 0        | Pct maq 8:  | 0   |
| Pct cm 8:      | 0        | Pct pcm 8:  | 0   |
| Pct na 8:      | 0        | Pct aq 9:   | 0   |
| Pct maq 9:     | 0        | Pct cm 9:   | 0   |
| Pct pcm 9:     | 0        | Pct na 9:   | 0   |
| Pct aq 10:     | 0        | Pct maq 10: | 0   |
| Pct cm 10:     | 0        | Pct pcm 10: | 0   |
| Pct na 10:     | 0        | Pct aq 11:  | 0   |
| Pct maq 11:    | 0        | Pct cm 11:  | 0   |
| Pct pcm 11:    | 0        | Pct na 11:  | 0   |
| Pct aq 12:     | 0        | Pct maq 12: | 0   |
| Pct cm 12:     | 0        | Pct pcm 12: | 0   |
| Pct na 12:     | 0        | Pct aq 13:  | 0   |
| Pct maq 13:    | 0        | Pct cm 13:  | 0   |
| Pct pcm 13:    | 0        | Pct na 13:  | 0   |
| Within sec:    | Y        | Loc match:  | Y   |
| Aq code 1:     | D        |             |     |
| Hit swl:       | F        |             |     |
| Athk2:         | 42       |             |     |
| Horiz Conduct: | 8.2145   |             |     |
| Vert Conduct:  | .00022   |             |     |
| T2:            | 345.0088 |             |     |
| D50plek:       | 26.7278  |             |     |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**A1**  
**South**  
**1/4 - 1/2 Mile**

OIL\_GAS MIOG90000010517

|                  |                 |                 |                   |
|------------------|-----------------|-----------------|-------------------|
| Api wellno:      | 21017163990000  |                 |                   |
| Opno:            | 3033            |                 |                   |
| Operator Name:   | DOW CHEMICAL CO |                 |                   |
| Operator Status: | Active-         |                 |                   |
| Operator City:   | MIDLAND         | Operator State: | MI                |
| Permit no:       | 16399           |                 |                   |
| Lease name:      | DUEL, C L       |                 |                   |
| Well no:         | 1               |                 |                   |
| Deepestfmrtn:    | DUND            | Obj fmrtn:      | MONR              |
| Drillerstd:      | 3951            | Truetd:         | 0                 |
| County:          | BAY             | Slant:          | V                 |
| Well type:       | Dry Hole        | Well status:    | Plugging Approved |
| Source loc:      | C               | Wh sec:         | 19                |
| Wh twpn:         | 14              | Wh twpd:        | N                 |
| Wh rngn:         | 3               | Wh rngd:        | E                 |
| Wh qq:           | NW              | Wh qq:          | SE                |
| Wh q:            | SW              |                 |                   |
| Wh lat:          | 43.60042        |                 |                   |
| Wh long:         | -84.16248       |                 |                   |
| Wh georef x:     | 648147.81       |                 |                   |
| Wh georef y:     | 340460.37       |                 |                   |
| Bh georef x:     | 648147.81       |                 |                   |
| Bh georef y:     | 340460.37       |                 |                   |
| Bh sourceloc:    | C               |                 |                   |
| Bh lat:          | 43.60042        |                 |                   |
| Bh long:         | -84.16248       |                 |                   |
| Site id:         | MIOG90000010517 |                 |                   |

**A2**  
**South**  
**1/4 - 1/2 Mile**

OIL\_GAS MIOG90000010518

|                  |                     |                 |                   |
|------------------|---------------------|-----------------|-------------------|
| Api wellno:      | 21017163990100      |                 |                   |
| Opno:            | 3033                |                 |                   |
| Operator Name:   | DOW CHEMICAL CO     |                 |                   |
| Operator Status: | Active-             |                 |                   |
| Operator City:   | MIDLAND             | Operator State: | MI                |
| Permit no:       | 16399               |                 |                   |
| Lease name:      | DUEL, C L           |                 |                   |
| Well no:         | 1                   |                 |                   |
| Deepestfmrtn:    | DUND                | Obj fmrtn:      | Not Reported      |
| Drillerstd:      | 4000                | Truetd:         | 0                 |
| County:          | BAY                 | Slant:          | V                 |
| Well type:       | Brine Disposal Well | Well status:    | Plugging Approved |
| Source loc:      | C                   | Wh sec:         | 19                |
| Wh twpn:         | 14                  | Wh twpd:        | N                 |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|               |                 |          |    |
|---------------|-----------------|----------|----|
| Wh rngn:      | 3               | Wh rngd: | E  |
| Wh qq:        | NW              | Wh qq:   | SE |
| Wh q:         | SW              |          |    |
| Wh lat:       | 43.60042        |          |    |
| Wh long:      | -84.16248       |          |    |
| Wh georef x:  | 648147.81       |          |    |
| Wh georef y:  | 340460.37       |          |    |
| Bh georef x:  | 648147.81       |          |    |
| Bh georef y:  | 340460.37       |          |    |
| Bh sourceloc: | C               |          |    |
| Bh lat:       | 43.60042        |          |    |
| Bh long:      | -84.16248       |          |    |
| Site id:      | MIOG90000010518 |          |    |

**3**  
**NNW**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**MIOG90000035147**

|                  |                          |                 |                   |
|------------------|--------------------------|-----------------|-------------------|
| Api wellno:      | 21111000598000           |                 |                   |
| Opno:            | 3033                     |                 |                   |
| Operator Name:   | DOW CHEMICAL CO          |                 |                   |
| Operator Status: | Active-                  |                 |                   |
| Operator City:   | MIDLAND                  | Operator State: | MI                |
| Permit no:       | 59                       |                 |                   |
| Lease name:      | THE DOW CHEMICAL COMPANY |                 |                   |
| Well no:         | 12-D                     |                 |                   |
| Deepestfmrtn:    | DRRV                     | Obj fmrtn:      | SLVN              |
| Drillerstd:      | 4080                     | Truetd:         | 0                 |
| County:          | MIDLAND                  | Slant:          | V                 |
| Well type:       | Brine Disposal Well      | Well status:    | Plugging Approved |
| Source loc:      | C                        | Wh sec:         | 24                |
| Wh twpn:         | 14                       | Wh twpd:        | N                 |
| Wh rngn:         | 2                        | Wh rngd:        | E                 |
| Wh qq:           | NE                       | Wh qq:          | NE                |
| Wh q:            | NE                       |                 |                   |
| Wh lat:          | 43.61183                 |                 |                   |
| Wh long:         | -84.16814                |                 |                   |
| Wh georef x:     | 647662.18                |                 |                   |
| Wh georef y:     | 341717.03                |                 |                   |
| Bh georef x:     | 647662.18                |                 |                   |
| Bh georef y:     | 341717.03                |                 |                   |
| Bh sourceloc:    | C                        |                 |                   |
| Bh lat:          | 43.61183                 |                 |                   |
| Bh long:         | -84.16814                |                 |                   |
| Site id:         | MIOG90000035147          |                 |                   |

**4**  
**West**

**1/2 - 1 Mile**

**OIL\_GAS**

**MIOG90000035218**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                  |                                     |                 |                   |
|------------------|-------------------------------------|-----------------|-------------------|
| Api wellno:      | 21111010280000                      |                 |                   |
| Opno:            | 1662                                |                 |                   |
| Operator Name:   | MIDBAY OIL CO THE                   |                 |                   |
| Operator Status: | Inactive-no active wells at present |                 |                   |
| Operator City:   | Not Reported                        | Operator State: | Not Reported      |
| Permit no:       | 1028                                |                 |                   |
| Lease name:      | PATRICK, CLARENCE W.                |                 |                   |
| Well no:         | 1                                   |                 |                   |
| Deepestfmrtn:    | DUND                                | Obj fmrtn:      | Not Reported      |
| Drillerstd:      | 3840                                | Truetd:         | 0                 |
| County:          | MIDLAND                             | Slant:          | V                 |
| Well type:       | Dry Hole                            | Well status:    | Plugging Approved |
| Source loc:      | C                                   | Wh sec:         | 24                |
| Wh twpn:         | 14                                  | Wh twpd:        | N                 |
| Wh rngn:         | 2                                   | Wh rngd:        | E                 |
| Wh qq:           | SE                                  | Wh qq:          | SW                |
| Wh q:            | NE                                  |                 |                   |
| Wh lat:          | 43.6059                             |                 |                   |
| Wh long:         | -84.1739                            |                 |                   |
| Wh georef x:     | 647212.59                           |                 |                   |
| Wh georef y:     | 341048.69                           |                 |                   |
| Bh georef x:     | 647212.59                           |                 |                   |
| Bh georef y:     | 341048.69                           |                 |                   |
| Bh sourceloc:    | C                                   |                 |                   |
| Bh lat:          | 43.6059                             |                 |                   |
| Bh long:         | -84.1739                            |                 |                   |
| Site id:         | MIOG90000035218                     |                 |                   |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

State Database: MI Radon

#### Radon Test Results

| Zipcode | Test Date  | LT Sign | Result |
|---------|------------|---------|--------|
| 48642   | 6/1/2009   |         | 1.6    |
| 48642   | 1/25/2010  |         | 1.6    |
| 48642   | 10/3/2009  |         | 1.6    |
| 48642   | 1/29/2007  |         | 1.6    |
| 48642   | 12/30/2006 |         | 1.6    |
| 48642   | 4/24/2006  |         | 1.6    |
| 48642   | 2/6/2006   |         | 1.6    |
| 48642   | 1/30/2006  |         | 1.6    |
| 48642   | 2/1/2008   |         | 1.6    |
| 48642   | 2/4/2008   |         | 1.6    |
| 48642   | 11/18/2008 |         | 1.6    |
| 48642   | 2/26/2007  |         | 1.6    |
| 48642   | 3/19/2007  |         | 1.6    |
| 48642   | 1/30/2008  |         | 1.6    |
| 48642   | 1/21/2008  |         | 1.6    |
| 48642   | 1/18/2008  |         | 1.6    |
| 48642   | 1/19/2008  |         | 1.6    |
| 48642   | 2/20/2007  |         | 1.6    |
| 48642   | 1/9/2008   |         | 1.6    |
| 48642   | 4/23/2007  |         | 1.6    |
| 48642   | 2/2/2007   |         | 1.6    |
| 48642   | 1/29/2007  |         | 1.5    |
| 48642   | 3/16/2006  |         | 1.5    |
| 48642   | 2/15/2006  |         | 1.5    |
| 48642   | 2/11/2008  |         | 1.5    |
| 48642   | 2/2/2007   |         | 1.5    |
| 48642   | 4/19/2007  |         | 1.5    |
| 48642   | 2/11/2008  |         | 1.5    |
| 48642   | 2/9/2007   |         | 1.5    |
| 48642   | 1/17/1995  |         | 1.5    |
| 48642   | 3/13/2004  |         | 1.5    |
| 48642   | 5/16/2005  |         | 1.4    |
| 48642   | 2/11/2000  |         | 1.5    |
| 48642   | 1/23/2010  |         | 1.5    |
| 48642   | 1/19/2010  |         | 1.5    |
| 48642   | 1/19/2010  |         | 1.5    |
| 48642   | 4/5/2007   |         | 1.4    |
| 48642   | 1/29/2010  |         | 1.4    |
| 48642   | 1/15/2010  |         | 1.4    |
| 48642   | 1/25/2010  |         | 1.4    |
| 48642   | 1/19/2010  |         | 1.4    |
| 48642   | 5/5/2009   |         | 1.4    |
| 48642   | 4/6/2009   |         | 1.4    |
| 48642   | 11/30/2009 |         | 1.4    |
| 48642   | 2/17/2009  |         | 1.4    |
| 48642   | 2/13/2006  |         | 1.4    |
| 48642   |            |         |        |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

|       |            |     |
|-------|------------|-----|
|       | 1/31/2007  | 1.4 |
| 48642 | 3/7/2008   | 1.4 |
| 48642 | 2/7/2007   | 1.4 |
| 48642 | 2/3/2007   | 1.4 |
| 48642 | 2/17/2007  | 1.4 |
| 48642 | 2/26/2007  | 1.4 |
| 48642 | 6/7/2007   | 1.4 |
| 48642 | 3/10/2007  | 1.4 |
| 48642 | 4/8/2006   | 1.3 |
| 48642 | 1/29/2007  | 1.3 |
| 48642 | 2/15/2006  | 1.3 |
| 48642 | 1/30/2006  | 1.3 |
| 48642 | 1/23/2006  | 1.3 |
| 48642 | 1/30/2006  | 1.3 |
| 48642 | 1/18/2008  | 1.3 |
| 48642 | 2/9/2007   | 1.3 |
| 48642 | 3/5/2008   | 1.3 |
| 48642 | 12/23/1996 | 1.3 |
| 48642 | 2/21/2004  | 1.3 |
| 48642 | 5/30/2009  | 1.3 |
| 48642 | 1/28/2010  | 1.3 |
| 48642 | 9/16/1995  | 1.2 |
| 48642 | 11/24/1997 | 1.2 |
| 48642 | 2/11/2008  | 1.3 |
| 48642 | 1/16/2009  | 1.3 |
| 48642 | 1/28/2008  | 1.2 |
| 48642 | 1/18/2008  | 1.2 |
| 48642 | 1/21/2008  | 1.2 |
| 48642 | 2/9/2007   | 1.2 |
| 48642 | 1/22/2000  | 1.2 |
| 48642 | 5/7/2007   | 1.2 |
| 48642 | 2/24/2006  | 1.2 |
| 48642 | 2/5/2007   | 1.2 |
| 48642 | 1/23/2006  | 1.2 |
| 48642 | 1/28/2006  | 1.2 |
| 48642 | 12/24/2002 | 1.1 |
| 48642 | 11/17/2009 | 1.2 |
| 48642 | 2/27/2009  | 1.2 |
| 48642 | 3/3/2009   | 1.2 |
| 48642 | 2/28/2009  | 1.2 |
| 48642 | 1/23/2010  | 1.2 |
| 48642 | 1/16/2009  | 1.2 |
| 48642 | 2/12/2007  | 1.1 |
| 48642 | 3/10/2007  | 1.1 |
| 48642 | 1/14/2010  | 1.1 |
| 48642 | 2/23/2004  | 1.1 |
| 48642 | 6/28/2004  | 1.1 |
| 48642 | 2/18/2006  | 1.1 |
| 48642 | 6/15/2006  | 1.1 |
| 48642 | 4/8/2006   | 1.1 |
| 48642 | 4/24/2006  | 1.1 |
| 48642 | 1/30/2006  | 1.1 |
| 48642 | 1/26/2006  | 1.1 |
| 48642 | 1/28/2006  | 1.1 |
| 48642 | 2/5/2007   | 1.1 |
| 48642 | 2/6/2008   | 1.1 |
| 48642 |            |     |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

|       |            |   |     |
|-------|------------|---|-----|
|       | 3/4/2008   |   | 1.1 |
| 48642 | 2/26/2007  |   | 1.1 |
| 48642 | 2/17/2007  |   | 1.1 |
| 48642 | 2/15/2007  |   | 1.1 |
| 48642 | 1/29/2008  |   | 1.1 |
| 48642 | 3/7/2009   |   | 1.1 |
| 48642 | 1/15/2010  |   | 1.0 |
| 48642 | 1/25/2006  |   | 1.0 |
| 48642 | 1/29/2007  |   | 1.0 |
| 48642 | 1/29/2007  |   | 1.0 |
| 48642 | 1/29/2007  |   | 1.0 |
| 48642 | 1/22/2007  |   | 1.0 |
| 48642 | 2/27/2006  |   | 1.0 |
| 48642 | 2/26/2007  |   | 1.0 |
| 48642 | 2/7/2007   |   | 1.0 |
| 48642 | 10/9/2008  |   | 1.0 |
| 48642 | 3/1/2007   |   | 1.0 |
| 48642 | 2/26/2007  |   | 1.0 |
| 48642 | 2/12/2007  |   | 1.0 |
| 48642 | 1/28/2008  |   | 1.0 |
| 48642 | 1/18/2008  |   | 1.0 |
| 48642 | 1/18/2008  |   | 1.0 |
| 48642 | 1/29/2008  |   | 1.0 |
| 48642 | 11/2/2007  |   | 1.0 |
| 48642 | 2/25/2008  |   | 1.0 |
| 48642 | 4/28/2007  |   | 1.0 |
| 48642 | 4/15/2008  |   | 1.0 |
| 48642 | 2/5/2007   |   | 1.9 |
| 48642 | 2/6/2006   |   | 1.9 |
| 48642 | 2/2/2007   |   | 1.9 |
| 48642 | 12/8/2009  |   | 1.9 |
| 48642 | 8/27/2009  |   | 1.9 |
| 48642 | 1/29/2010  |   | 1.8 |
| 48642 | 1/23/2010  |   | 1.8 |
| 48642 | 3/18/2006  |   | 1.8 |
| 48642 | 2/13/2006  |   | 1.8 |
| 48642 | 2/9/2008   |   | 1.8 |
| 48642 | 2/13/2006  |   | 1.7 |
| 48642 | 3/7/2006   |   | 1.7 |
| 48642 | 1/31/2007  |   | 1.7 |
| 48642 | 2/28/2004  |   | 1.7 |
| 48642 | 1/21/2005  |   | 1.7 |
| 48642 | 12/4/2006  |   | 1.7 |
| 48642 | 3/31/2006  |   | 1.6 |
| 48642 | 1/23/2010  |   | 1.7 |
| 48642 | 3/8/2007   |   | 1.0 |
| 48642 | 4/29/2006  | < | 0.3 |
| 48642 | 3/25/2006  | < | 0.3 |
| 48642 | 1/23/2007  | < | 0.3 |
| 48642 | 1/31/2007  | < | 0.3 |
| 48642 | 1/17/2007  | < | 0.3 |
| 48642 | 2/6/2008   | < | 0.3 |
| 48642 | 12/18/1997 | < | 0.3 |
| 48642 | 10/11/2006 | < | 0.3 |
| 48642 | 4/2/2005   |   | 0.5 |
| 48642 | 7/26/2005  | < | 0.3 |
| 48642 |            |   |     |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

|       |           |   |     |
|-------|-----------|---|-----|
|       | 6/9/2005  | < | 0.3 |
| 48642 | 3/29/2004 | < | 0.3 |
| 48642 | 2/4/2006  | < | 0.3 |
| 48642 | 2/27/2006 | < | 0.3 |
| 48642 | 2/27/2006 | < | 0.3 |
| 48642 | 2/15/2006 | < | 0.3 |
| 48642 | 2/3/2007  | < | 0.3 |
| 48642 | 11/8/2004 |   | 0.5 |
| 48642 | 9/22/2006 |   | 0.5 |
| 48642 | 3/25/2006 |   | 0.5 |
| 48642 | 2/15/2005 | < | 0.3 |
| 48642 | 2/15/2006 | < | 0.3 |
| 48642 | 2/6/2006  | < | 0.3 |
| 48642 | 2/7/2006  | < | 0.3 |
| 48642 | 2/22/2006 | < | 0.3 |
| 48642 | 2/9/2007  | < | 0.3 |
| 48642 | 2/22/2006 | < | 0.3 |
| 48642 | 2/5/2007  | < | 0.3 |
| 48642 | 2/6/2006  | < | 0.3 |
| 48642 | 2/20/2006 | < | 0.3 |
| 48642 | 1/20/2007 | < | 0.3 |
| 48642 | 1/26/2007 |   | 0.5 |
| 48642 | 2/1/2006  |   | 0.5 |
| 48642 | 1/30/2006 |   | 0.5 |
| 48642 | 2/14/2006 |   | 0.5 |
| 48642 | 2/2/2007  |   | 0.5 |
| 48642 | 3/4/2008  |   | 0.5 |
| 48642 | 2/1/2008  |   | 0.5 |
| 48642 | 2/12/2007 |   | 0.5 |
| 48642 | 2/3/2007  |   | 0.5 |
| 48642 | 2/17/2007 |   | 0.5 |
| 48642 | 1/24/2008 |   | 0.5 |
| 48642 | 1/21/2005 | < | 0.3 |
| 48642 | 1/31/2007 | < | 0.3 |
| 48642 | 1/16/2007 | < | 0.3 |
| 48642 | 1/23/2006 | < | 0.3 |
| 48642 | 1/30/2006 | < | 0.3 |
| 48642 | 2/13/2007 |   | 0.5 |
| 48642 | 2/9/2007  |   | 0.5 |
| 48642 | 2/9/2007  |   | 0.5 |
| 48642 | 1/25/2008 |   | 0.5 |
| 48642 | 1/28/2008 |   | 0.5 |
| 48642 | 3/16/2007 |   | 0.5 |
| 48642 | 9/14/2004 | < | 0.3 |
| 48642 | 1/30/2006 | < | 0.3 |
| 48642 | 1/23/2006 | < | 0.3 |
| 48642 | 1/25/2006 | < | 0.3 |
| 48642 | 1/28/2006 | < | 0.3 |
| 48642 | 2/1/2005  | < | 0.3 |
| 48642 | 1/26/2005 | < | 0.3 |
| 48642 | 2/10/2007 | < | 0.3 |
| 48642 | 3/3/2008  | < | 0.3 |
| 48642 | 3/1/2008  | < | 0.3 |
| 48642 | 3/5/2008  | < | 0.3 |
| 48642 | 3/17/2008 | < | 0.3 |
| 48642 | 2/3/2007  | < | 0.3 |
| 48642 |           |   |     |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

|       |            |   |     |
|-------|------------|---|-----|
|       | 2/19/2007  | < | 0.3 |
| 48642 | 3/7/2008   | < | 0.3 |
| 48642 | 6/22/2007  | < | 0.3 |
| 48642 | 2/10/2007  | < | 0.3 |
| 48642 | 1/28/2010  |   | 0.5 |
| 48642 | 2/2/2009   |   | 0.5 |
| 48642 | 3/23/2009  |   | 0.5 |
| 48642 | 3/1/2007   | < | 0.3 |
| 48642 | 2/23/2007  | < | 0.3 |
| 48642 | 2/5/2007   | < | 0.3 |
| 48642 | 2/9/2007   | < | 0.3 |
| 48642 | 2/9/2007   | < | 0.3 |
| 48642 | 2/8/2007   | < | 0.3 |
| 48642 | 11/17/2003 | < | 0.3 |
| 48642 | 2/5/2007   | < | 0.3 |
| 48642 | 5/10/2008  | < | 0.3 |
| 48642 | 5/5/2008   | < | 0.3 |
| 48642 | 2/5/2007   | < | 0.3 |
| 48642 | 9/11/2003  | < | 0.3 |
| 48642 | 3/17/2005  | < | 0.3 |
| 48642 | 1/26/2008  | < | 0.3 |
| 48642 | 1/26/2008  | < | 0.3 |
| 48642 | 12/24/2007 | < | 0.3 |
| 48642 | 1/28/2008  | < | 0.3 |
| 48642 | 1/21/2008  | < | 0.3 |
| 48642 | 1/18/2008  | < | 0.3 |
| 48642 | 1/29/2008  | < | 0.3 |
| 48642 | 2/11/2004  | < | 0.3 |
| 48642 | 2/9/2004   | < | 0.3 |
| 48642 | 2/2/2007   | < | 0.3 |
| 48642 | 1/21/2008  | < | 0.3 |
| 48642 | 1/26/2008  | < | 0.3 |
| 48642 | 1/18/2008  | < | 0.3 |
| 48642 | 1/28/2008  | < | 0.3 |
| 48642 | 1/18/2008  | < | 0.3 |
| 48642 | 11/2/2005  | < | 0.3 |
| 48642 | 2/12/2007  | < | 0.3 |
| 48642 | 4/11/2006  | < | 0.3 |
| 48642 | 1/31/2007  | < | 0.3 |
| 48642 | 4/28/2007  | < | 0.3 |
| 48642 | 3/29/1999  | < | 0.3 |
| 48642 | 2/2/2004   | < | 0.3 |
| 48642 | 1/29/2007  | < | 0.3 |
| 48642 | 3/7/2006   | < | 0.3 |
| 48642 | 4/15/2008  | < | 0.3 |
| 48642 | 2/4/2008   | < | 0.3 |
| 48642 | 3/21/2008  | < | 0.3 |
| 48642 | 2/11/2008  | < | 0.3 |
| 48642 | 2/8/2008   | < | 0.3 |
| 48642 | 2/1/2008   | < | 0.3 |
| 48642 | 2/1/2008   | < | 0.3 |
| 48642 | 2/1/2008   | < | 0.3 |
| 48642 | 2/4/2008   | < | 0.3 |
| 48642 | 1/8/2003   |   | 0.5 |
| 48642 | 2/9/2009   |   | 1.0 |
| 48642 | 1/27/2010  |   | 1.0 |
| 48642 |            |   |     |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

|       |           |     |
|-------|-----------|-----|
|       | 3/18/2003 | 0.8 |
| 48642 | 2/7/2005  | 0.7 |
| 48642 | 3/15/2004 | 0.7 |
| 48642 | 2/25/2004 | 0.6 |
| 48642 | 3/19/2005 | 0.6 |
| 48642 | 5/19/2005 | 0.8 |
| 48642 | 7/8/2005  | 0.7 |
| 48642 | 1/17/2005 | 0.6 |
| 48642 | 5/16/2005 | 0.8 |
| 48642 | 2/28/2004 | 0.8 |
| 48642 | 1/17/2007 | 0.7 |
| 48642 | 1/23/2006 | 0.7 |
| 48642 | 1/20/2007 | 0.7 |
| 48642 | 2/17/2007 | 0.6 |
| 48642 | 6/24/2004 | 0.8 |
| 48642 | 5/7/2005  | 0.8 |
| 48642 | 1/23/2006 | 0.7 |
| 48642 | 2/3/2007  | 0.7 |
| 48642 | 6/10/2004 | 0.9 |
| 48642 | 2/13/2006 | 0.6 |
| 48642 | 2/18/2006 | 0.6 |
| 48642 | 3/11/2006 | 0.8 |
| 48642 | 5/26/2006 | 0.8 |
| 48642 | 1/25/2006 | 0.8 |
| 48642 | 1/17/2007 | 0.8 |
| 48642 | 1/25/2006 | 0.7 |
| 48642 | 1/30/2006 | 0.7 |
| 48642 | 1/23/2006 | 0.7 |
| 48642 | 1/23/2006 | 0.7 |
| 48642 | 7/24/2006 | 0.7 |
| 48642 | 3/28/2006 | 0.7 |
| 48642 | 2/28/2006 | 0.7 |
| 48642 | 1/28/2008 | 0.7 |
| 48642 | 2/5/2008  | 0.7 |
| 48642 | 3/13/2007 | 0.7 |
| 48642 | 1/29/2007 | 0.6 |
| 48642 | 1/22/2007 | 0.6 |
| 48642 | 1/26/2006 | 0.6 |
| 48642 | 5/27/2006 | 0.6 |
| 48642 | 1/30/2006 | 0.6 |
| 48642 | 2/15/2006 | 0.6 |
| 48642 | 3/6/2007  | 0.6 |
| 48642 | 2/9/2007  | 0.6 |
| 48642 | 2/7/2007  | 0.6 |
| 48642 | 1/26/2008 | 0.6 |
| 48642 | 1/29/2008 | 0.6 |
| 48642 | 1/26/2008 | 0.6 |
| 48642 | 3/2/2007  | 0.6 |
| 48642 | 2/25/2008 | 0.6 |
| 48642 | 1/23/2006 | 0.8 |
| 48642 | 1/25/2006 | 0.8 |
| 48642 | 2/9/2006  | 0.8 |
| 48642 | 2/9/2006  | 0.8 |
| 48642 | 1/29/2007 | 0.8 |
| 48642 | 1/21/2008 | 0.7 |
| 48642 | 1/25/2008 | 0.7 |
| 48642 |           |     |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

|       |           |     |
|-------|-----------|-----|
|       | 1/26/2008 | 0.7 |
| 48642 | 4/2/2004  | 0.9 |
| 48642 | 6/12/2008 | 0.6 |
| 48642 | 2/9/2007  | 0.6 |
| 48642 | 2/19/2007 | 0.6 |
| 48642 | 2/10/2007 | 0.6 |
| 48642 | 2/6/2008  | 0.6 |
| 48642 | 2/25/2008 | 0.6 |
| 48642 | 2/5/2007  | 0.8 |
| 48642 | 2/10/2007 | 0.8 |
| 48642 | 2/20/2007 | 0.8 |
| 48642 | 3/1/2008  | 0.7 |
| 48642 | 3/21/2008 | 0.7 |
| 48642 | 2/2/2007  | 0.7 |
| 48642 | 1/30/2006 | 0.9 |
| 48642 | 2/16/2008 | 0.6 |
| 48642 | 1/21/2008 | 0.6 |
| 48642 | 1/23/2008 | 0.6 |
| 48642 | 2/25/2008 | 0.8 |
| 48642 | 1/24/2008 | 0.8 |
| 48642 | 1/28/2008 | 0.8 |
| 48642 | 1/30/2008 | 0.8 |
| 48642 | 1/26/2008 | 0.8 |
| 48642 | 2/18/2006 | 0.9 |
| 48642 | 8/23/2007 | 0.8 |
| 48642 | 1/29/2007 | 0.9 |
| 48642 | 4/13/2007 | 0.9 |
| 48642 | 2/6/2008  | 0.9 |
| 48642 | 8/3/1994  | 0.6 |
| 48642 | 4/13/2009 | 0.7 |
| 48642 | 4/8/2009  | 0.7 |
| 48642 | 1/19/2010 | 0.7 |
| 48642 | 1/19/2008 | 0.9 |
| 48642 | 1/29/2008 | 0.9 |
| 48642 | 1/18/2008 | 0.9 |
| 48642 | 2/15/2008 | 0.9 |
| 48642 | 4/3/2008  | 0.9 |
| 48642 | 4/23/2008 | 0.9 |
| 48642 | 3/9/2009  | 0.6 |
| 48642 | 1/19/2010 | 0.6 |
| 48642 | 1/25/2010 | 0.6 |
| 48642 | 1/19/2010 | 0.8 |
| 48642 | 2/7/2009  | 0.8 |
| 48642 | 1/28/2010 | 0.8 |
| 48642 | 2/21/2009 | 0.8 |
| 48642 | 2/23/2009 | 0.8 |
| 48642 | 1/11/2010 | 0.8 |
| 48642 | 1/15/2010 | 0.8 |
| 48642 | 1/19/2010 | 0.6 |
| 48642 | 3/12/2009 | 0.6 |
| 48642 | 4/10/2009 | 0.8 |
| 48642 | 3/9/2009  | 0.8 |
| 48642 | 4/26/1996 | 0.6 |
| 48642 | 1/17/2009 | 0.9 |
| 48642 | 2/7/2009  | 0.9 |
| 48642 | 2/9/2009  | 0.9 |
| 48642 |           |     |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

|       |            |   |     |
|-------|------------|---|-----|
|       | 2/17/2009  |   | 0.9 |
| 48642 | 2/27/2009  |   | 0.9 |
| 48642 | 2/14/2009  |   | 0.9 |
| 48642 | 1/29/2010  |   | 0.9 |
| 48642 | 3/23/2009  |   | 2.6 |
| 48642 | 4/6/2009   |   | 2.6 |
| 48642 | 10/10/2009 |   | 2.6 |
| 48642 | 11/16/2009 |   | 2.8 |
| 48642 | 4/2/2007   |   | 2.5 |
| 48642 | 9/28/2009  |   | 2.5 |
| 48642 | 1/25/2010  |   | 2.5 |
| 48642 | 3/1/2008   |   | 2.4 |
| 48642 | 10/20/2008 |   | 2.4 |
| 48642 | 5/19/2008  |   | 2.4 |
| 48642 | 3/21/2007  |   | 2.4 |
| 48642 | 2/19/2007  |   | 2.3 |
| 48642 | 1/15/2007  |   | 2.2 |
| 48642 | 1/17/2006  |   | 2.2 |
| 48642 | 2/7/2009   |   | 2.4 |
| 48642 | 7/30/2007  |   | 2.2 |
| 48642 | 4/18/2009  |   | 2.2 |
| 48642 | 1/30/2006  |   | 2.3 |
| 48642 | 4/8/2006   |   | 2.3 |
| 48642 | 1/29/2007  |   | 2.3 |
| 48642 | 4/5/2004   |   | 2.2 |
| 48642 | 1/30/2007  |   | 3.0 |
| 48642 | 8/14/2006  |   | 2.7 |
| 48642 | 2/17/2007  |   | 2.6 |
| 48642 | 2/5/2008   |   | 2.7 |
| 48642 | 4/26/2007  |   | 2.6 |
| 48642 | 2/9/2008   |   | 2.6 |
| 48642 | 1/19/2010  |   | 2.7 |
| 48642 | 3/19/2007  |   | 3.8 |
| 48642 | 2/11/2008  | < | 0.3 |
| 48642 | 1/21/2008  | < | 0.3 |
| 48642 | 1/28/2008  | < | 0.3 |
| 48642 | 1/21/2008  | < | 0.3 |
| 48642 | 1/28/2008  | < | 0.3 |
| 48642 | 1/28/2008  | < | 0.3 |
| 48642 | 1/30/2008  | < | 0.3 |
| 48642 | 1/28/2008  | < | 0.3 |
| 48642 | 1/30/2008  | < | 0.3 |
| 48642 | 3/10/2007  | < | 0.3 |
| 48642 | 3/2/2007   | < | 0.3 |
| 48642 | 3/23/2007  | < | 0.3 |
| 48642 | 1/26/2008  | < | 0.3 |
| 48642 | 2/16/2008  | < | 0.3 |
| 48642 | 2/4/2008   | < | 0.3 |
| 48642 | 1/21/2008  | < | 0.3 |
| 48642 | 3/15/2007  | < | 0.3 |
| 48642 | 2/7/2009   | < | 0.3 |
| 48642 | 3/7/1995   | < | 0.3 |
| 48642 | 1/12/2000  | < | 0.3 |
| 48642 | 1/29/2007  |   | 3.4 |
| 48642 | 4/4/2001   | < | 0.3 |
| 48642 | 1/19/2010  |   | 3.1 |
| 48642 |            |   |     |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

|       |            |   |      |
|-------|------------|---|------|
|       | 1/21/2009  | < | 0.3  |
| 48642 | 1/13/2009  | < | 0.3  |
| 48642 | 9/4/2009   | < | 0.3  |
| 48642 | 1/23/2010  |   | 3.8  |
| 48642 | 5/8/2006   |   | 3.9  |
| 48642 | 1/20/2010  | < | 0.3  |
| 48642 | 1/19/2010  | < | 0.3  |
| 48642 | 1/14/2010  | < | 0.3  |
| 48642 | 2/20/2006  |   | 3.7  |
| 48642 | 2/14/2009  |   | 3.3  |
| 48642 | 1/11/2010  | < | 0.3  |
| 48642 | 11/12/2009 | < | 0.3  |
| 48642 | 11/5/2009  | < | 0.3  |
| 48642 | 4/10/2009  | < | 0.3  |
| 48642 | 6/20/2009  | < | 0.3  |
| 48642 | 2/14/2009  | < | 0.3  |
| 48642 | 1/31/2009  | < | 0.3  |
| 48642 | 12/11/2009 | < | 0.3  |
| 48642 | 9/16/2005  |   | 5.4  |
| 48642 | 2/27/2006  |   | 11.1 |
| 48642 | 4/15/2005  |   | 2.0  |
| 48642 | 1/23/2006  |   | 2.1  |
| 48642 | 4/11/2006  |   | 2.1  |
| 48642 | 1/29/2007  |   | 2.0  |
| 48642 | 3/5/2008   |   | 2.0  |
| 48642 | 2/12/2007  |   | 2.1  |
| 48642 | 3/30/2007  |   | 2.0  |
| 48642 | 3/31/2001  |   | 2.1  |
| 48642 | 2/23/2009  |   | 2.1  |
| 48642 | 2/9/2009   |   | 2.1  |
| 48642 | 10/21/2009 |   | 2.1  |
| 48642 | 4/2/2007   |   | 4.3  |
| 48642 | 4/8/2006   |   | 4.4  |
| 48642 | 3/10/2007  |   | 4.4  |
| 48642 | 2/17/2007  |   | 4.1  |
| 48642 | 6/26/2008  |   | 4.1  |

Federal EPA Radon Zone for BAY County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BAY COUNTY, MI

Number of sites tested: 16

| Area                    | Average Activity | % <4 pCi/L   | % 4-20 pCi/L | % >20 pCi/L  |
|-------------------------|------------------|--------------|--------------|--------------|
| Living Area - 1st Floor | 0.300 pCi/L      | 100%         | 0%           | 0%           |
| Living Area - 2nd Floor | Not Reported     | Not Reported | Not Reported | Not Reported |
| Basement                | 1.312 pCi/L      | 100%         | 0%           | 0%           |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

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

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> 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 Service (NRCS)

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

### SSURGO: Soil Survey Geographic Database

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

Telephone: 800-672-5559

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

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

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

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

### STATE RECORDS

#### Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

The data in this file was obtained from Wellogis, the Michigan Department of Environmental Quality Statewide Groundwater Database (SGWD). Wellogis contains approximately 425,000 water well records found within the State of Michigan, and although it represents the best available data, it cannot be considered a complete database of all the wells or well records in existence.

## OTHER STATE DATABASE INFORMATION

#### Michigan Oil and Gas Wells

Source: Department of Environmental Quality

Telephone: 517-241-1528

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.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### 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

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### STREET AND ADDRESS INFORMATION

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## **Appendix C**

### **Professional Qualification**

## JACK YAN, P.E.

---

### Areas of Expertise

- Water Supply and Wastewater Engineering
- Geotechnical Engineering
- Construction Management
- Environmental Site Assessments
- Property Condition Assessments
- Pollution Prevention
- Grant/Reimbursement Assistance and Site Closure
- Remediation System Design and Installation

More than eighteen years of experience in civil, environmental and geotechnical engineering, including water supply and wastewater engineering; foundation design and slope stability analysis; property condition assessments; construction management; pollution preventions; environmental site assessments; brownfields development; risk assessments; remedial pilot test and feasibility studies; remediation system design and implementation at CERCLA, RCRA, Leaking Underground Storage Tank (LUST) and Drycleaner sites.

### EXAMPLES OF PROJECT EXPERIENCE

#### Water Supply and Waste Water Engineering

Improved water supply and distribution systems for several mobile home parks in western Michigan. Designed a wastewater treatment system (including pH balance, odor control, mixing and settling tanks, sludge handling, pump stations) for Yoplaht plant in Michigan. Prepared engineering design, and specifications. Conducted equipment selection and construction oversight.

#### Geotechnical Engineering

Supervised and reviewed hundreds of geotechnical investigations and reports for residential and commercial development. Performed numerous foundation design (shallow and deep foundation), drainage design and slope stability analysis. Conducted dynamic compaction, grouting and other soil improvement techniques.

#### Construction Management

As a key member of a consulting team, provided technical and litigation supports to the Illinois State Toll Highway Authority regarding the System-Wide Tollway Redevelopment Project. Managed numerous projects for the Capital Development Board (CDB), City of Chicago, Chicago Housing Authority (CHA), and other municipal governments. Prepared construction documents and specifications for Midway Airport Expansion, CVS stores, Windy's International, and other Industrial and Commercial buildings.

#### Environmental Site Assessments

Conducted several hundreds of Phase I Environmental Site Assessments and Transaction Screens for financial leading institutions, Real Estate Investment Trusts, law firms, gas station owners, drycleaning owners, individual purchasers or sellers. Performed and supervised several hundreds of Phase II subsurface investigations for commercial and industrial properties.

#### Property Condition Assessments

Prepared and reviewed numerous property condition assessments reports for several lending institutes and insurance agencies.

#### Pollution Prevention

Prepared and reviewed several Spill Prevention Control & Countermeasure (SPCC) Plans and Storm Water Pollution Prevention (SWPP) Plans for industrial facilities and military installations.

### **Grant/Reimbursement Assistance and Site Closure**

Obtained Brownfield Redevelopment Grant from the IEPA for several municipalities and private developer, including the Village of Thornton and Chicago Indoor Soccer, LLC. Managed environmental remediation in conjunction with site development. Supervised all necessary investigations for Leaking Underground Storage Tank (LUST) and Site Remediation Program (SRP) projects. Prepared and reviewed technical reports for obtaining hundreds of No Further Remediation (NFR) letters (site closures) through IEPA LUST and SRP Program. Successfully reimbursed millions of dollars from the IEPA LUST Fund.

### **Remediation System Design and Installation**

Conducted groundwater modeling and in-situ groundwater testing (pump and slug tests). Managed the remedial system pilot test for a Superfund site, which including a 460-gallon per minute groundwater pump/treat and re-injection system. Involved in the design and construction of remediation systems for numerous sites includes groundwater pump and treat systems with air stripping and carbon filtration, air sparging, soil vapor extraction, hot air injection, bioremediation, dual-phase vacuum extraction systems, and free product removal systems.

*President* (2004.11-- present), Quality Environmental Solutions

*Director of Environmental Services* (2002.1--2004.11), Environmental Protection Industries

*Sr. Project Manager* (2000.6--2002.1), Wight & Company

*Sr. Environmental Engineer* (1998.4--2000.6), Environmental Protection Industries

*Sr. Environmental Engineer* (1997.1--1998.4), Carnow Conibear Associates, Ltd.

*Project Engineer/Hydrogeologist* (1994.6--1997.1), Natural Systems, Inc., Muskegon, MI

*Project Engineer* (1988-1992), Institution of Rock and Soil Mechanics, The Chinese Academy of Sciences

### **EDUCATION/TRAINING**

**Ph. D. Candidate**, Geotechnical Engineering, Wayne State University, Detroit, 1994

**Master Degree** in Civil & Environmental Engineering, Wayne State University, Detroit, 1993

**Master Degree** in Hydraulic Engineering, Tsinghua University, Beijing, China, 1988

**Bachelor Degree** in Civil Engineering, Tsinghua University, Beijing, China, 1985

Michigan Department of Environmental Quality **RBCA** Training, Lansing, MI, 1995

**ASTM**, Risk-Based Corrective Applied at Petroleum Release Sites, Chicago, May 1999

### **COMPUTER SKILLS**

AutoCAD, MicroStation, QuickFlow, Modflow, MT3D, ModPath, ModIME, SURFER, AQTESOLV, BIOPLUME II, SWMM, RWH, MS-Office, MS-Project

### **REGISTRATION**

Professional Engineer: Michigan in 1995

Professional Engineer: Illinois in 1997

Certified UST Professional in Michigan

IFCI Certified for UST Decommissioning

Certified Waste Treatment Operator

OSHA 40-Hour Safety/Hazardous Site Worker Training, 1994

### **AFFILIATION**

Member of National Ground Water Association (NGWA)

Member of American Society of Civil Engineers (ASCE)

Technical Committee Member of American Society for Testing and Materials (ASTM)

Member of Illinois Environmental Professional Association

**Appendix D**

**Sanborn Maps, City Directory and Other Information**



Best Western Hotel

5221 Bay City Road

Midland, MI 48642

Inquiry Number: 5143621.3

December 21, 2017

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## Certified Sanborn® Map Report

12/21/17

**Site Name:**

Best Western Hotel  
5221 Bay City Road  
Midland, MI 48642  
EDR Inquiry # 5143621.3

**Client Name:**

Quality Env. Solutions  
5254 Lincoln Avenue  
Lisle, IL 60532  
Contact: Jack Yan



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Quality Env. Solutions were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

### Certified Sanborn Results:

**Certification #** C1DE-4361-A36C

**PO #** NA

**Project** 17083

#### UNMAPPED PROPERTY

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



Sanborn® Library search results

Certification #: C1DE-4361-A36C

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

*The Sanborn Library LLC Since 1866™*

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**Best Western Hotel**

5221 Bay City Road  
Midland, MI 48642

Inquiry Number: 5143621.5  
December 28, 2017

## The EDR-City Directory Image Report

## TABLE OF CONTENTS

### **SECTION**

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***

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

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

**infoUSA<sup>®</sup>**

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

| <u>Year</u> | <u>Target Street</u>                | <u>Cross Street</u>      | <u>Source</u>             |
|-------------|-------------------------------------|--------------------------|---------------------------|
| 2014        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive       |
| 2010        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive       |
| 2005        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive       |
| 2000        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive       |
| 1995        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive       |
| 1992        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive       |
| 1987        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Robinson's City Directory |
| 1983        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Robinson's City Directory |
| 1979        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Robinson's City Directory |
| 1975        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Robinson's City Directory |
| 1971        | <input type="checkbox"/>            | <input type="checkbox"/> | Robinson's City Directory |
| 1965        | <input type="checkbox"/>            | <input type="checkbox"/> | Con Survey City Directory |
| 1959        | <input type="checkbox"/>            | <input type="checkbox"/> | Polk's City Directory     |
| 1949        | <input type="checkbox"/>            | <input type="checkbox"/> | Luedder's City Directory  |
| 1941        | <input type="checkbox"/>            | <input type="checkbox"/> | Luedder's City Directory  |
| 1935        | <input type="checkbox"/>            | <input type="checkbox"/> | Luedder's City Directory  |
| 1929        | <input type="checkbox"/>            | <input type="checkbox"/> | Luedder's City Directory  |

## EXECUTIVE SUMMARY

| <u>Year</u> | <u>Target Street</u> | <u>Cross Street</u> | <u>Source</u> |
|-------------|----------------------|---------------------|---------------|
|-------------|----------------------|---------------------|---------------|

## FINDINGS

### TARGET PROPERTY STREET

5221 Bay City Road  
Midland, MI 48642

| <u>Year</u> | <u>CD Image</u> | <u>Source</u> |
|-------------|-----------------|---------------|
|-------------|-----------------|---------------|

### BAY CITY RD

|      |        |                           |                                           |
|------|--------|---------------------------|-------------------------------------------|
| 2014 | pg A1  | EDR Digital Archive       |                                           |
| 2010 | pg A2  | EDR Digital Archive       |                                           |
| 2005 | pg A3  | EDR Digital Archive       |                                           |
| 2000 | pg A4  | EDR Digital Archive       |                                           |
| 1995 | pg A5  | EDR Digital Archive       |                                           |
| 1992 | pg A6  | EDR Digital Archive       |                                           |
| 1987 | pg A7  | Robinson's City Directory |                                           |
| 1983 | pg A8  | Robinson's City Directory |                                           |
| 1979 | pg A9  | Robinson's City Directory |                                           |
| 1975 | pg A10 | Robinson's City Directory |                                           |
| 1971 | -      | Robinson's City Directory | Target and Adjoining not listed in Source |
| 1965 | -      | Con Survey City Directory | Target and Adjoining not listed in Source |
| 1959 | -      | Polk's City Directory     | Target and Adjoining not listed in Source |
| 1949 | -      | Luedder's City Directory  | Target and Adjoining not listed in Source |
| 1941 | -      | Luedder's City Directory  | Target and Adjoining not listed in Source |
| 1935 | -      | Luedder's City Directory  | Target and Adjoining not listed in Source |
| 1929 | -      | Luedder's City Directory  | Target and Adjoining not listed in Source |

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**

**BAY CITY RD****2014**

5010 GHENGIS KHAN MNGOLIAN BARBEQUE  
5021 CENTRAL MIDLAND CORP  
5121 GIMMICKS FOR FOOD & FUN  
5217 STUDIO M  
5221 FOUR SEASONS HLTH AQUATICS CLB  
ISHA HOSPITALITY INC  
NICOLES

**BAY CITY RD****2010**

5010 CHE BROTHERS INC  
GHENGIS KHAN MNGOLIAN BARBEQUE  
5021 CENTRAL MIDLAND CORP  
5100 CHUG N CHEW  
5121 NAR INC  
5211 PLAZA SUITES INC  
5217 FOUR SEASONS HLTH AQUATICS CLB  
STUDIO M  
5221 GIMMICKS FOR FOOD & FUN  
ISHA HOSPITALITY INC  
NICOLES

**BAY CITY RD****2005**

5010 CHE BROTHERS INC  
GHENGIS KHAN MNGOLIAN BARBEQUE  
5021 CENTRAL MIDLAND CORP  
5211 PLAZA SUITES INC  
5221 BEST WESTERN VALLEY PLZ RESORT  
FOUR SEASONS HLTH AQUATICS CLB  
GIMMICKS FOR FOOD & FUN  
NAR INC  
NICOLES  
VALLEY PLAZA RESORT

**BAY CITY RD****2000**

5010 RESTAURANT TUMA INC  
5021 CENTRAL MIDLAND CORP  
5217 PLAZA SUITES INC  
RAPANOS NICK  
5221 BEST WESTERN VALLEY PLZ RESORT  
GIMMICKS FOR FOOD & FUN  
NAR INC  
NICOLES  
VALLEY PLAZA RESORT

**BAY CITY RD****1995**

|      |                                |
|------|--------------------------------|
| 5001 | JAXX SNAXX                     |
| 5010 | RESTAURANT TUMA INC            |
| 5021 | CENTRAL MIDLAND CORP           |
|      | RIVARD PRO SHOP                |
| 5115 | LESERS PRO SHOP                |
| 5217 | FOUR SEASONS HLTH AQUATICS CLB |
|      | PLAZA SUITES                   |
|      | VALLEY PLAZA RV PARK           |
| 5221 | GREAT HALL                     |
|      | LYNK MANAGEMENT INC            |
|      | NICOLES                        |
|      | TRIDGE MANAGEMENT INC          |
|      | VALLEY PLAZA INN               |

**BAY CITY RD****1992**

5010 RAMS HEAD INN  
RESTAURANT TUMA INC  
5021 RIVARD PRO SHOP  
5221 TRIDGE MANAGEMENT INC  
VALLEY PLAZA INC

**BAY CITY RD 1987**

Bay City Road Continued

4517 Fyan William A 496-3524  
 4525 Rolfe Paul 496-2852  
 4705 Sunset Drive In Theatre 496-3850  
 4801 Losier Omar 496-3176  
 4813 Upchurch Tim 496-2351  
 4816 Uni-Screen 496-2119  
 4425 Rechsteiner C 496-2115  
 5001 Townpump #8 496-2905  
 Rockwell Drive Intersects North  
 5010 Justine 496-3012  
 5201 Studio M 496-2530  
 5021 Valley Lanes 496-3940  
 5021 Valley Plaza Sales Office 496-3710  
 5221 Captin Nemo Restaurant 496-3130  
 5221 Valley Plaza Inn 496-2770  
 5221 Train Station 496-2640  
 5221 Four Seasons Health Club 496-3151  
 5221 Health Shop The 496-3151  
 Midland Limits  
 Continues as W Midland Road  
 2914 Four Seasons Camp Inn 496-9333  
 2914 Great Hall The 496-3710  
 5100 Buckingham Computer Services Inc  
 496-3200  
 2960 Rivards Pro Shop 496-2631  
 Cont. on into county

**BAY CITY RD 1983**

4425 Hanes J C 496-2498  
4427 Williams M L 496-2508  
4501 No information  
4517 Fyan William A 496-3524  
4525 Rolfe Paul 496-2852  
4625 Jorgensen Harold 496-9268  
4705 Sunset Drive In Theatre 496-3850  
4801 Bell Ken 496-9105  
4801 Dysinger Drew 496-9105  
4801 Engle Rick 496-9105  
4813 No information  
4816 Shirt Shop The 496-2119  
4816 Uni-Screen 496-2119  
Rockwell Drive Intersects North  
5010 Justine 496-3012  
5201 Studio M 496-2530  
5021 Valley Lanes 496-3940  
5021 Valley Plaza Sales Office 496-3710  
5221 Captin Nemo Restaurant 496-3130  
5221 Valley Plaza Inn 496-2770  
5221 Train Station 496-2640  
5221 Four Seasons Health Club 496-3151  
Midland Limits  
Continues as W Midland Road  
2914 Four Seasons Camp Inn 496-9333  
2914 Great Hall The 496-2770  
2945 NBD-Saginaw 496-2000  
2960 Hair Hut 496-3282  
Cont. on into county

## BAY CITY RD

1979

## Bay City Rd-Continued

|                        |                         |          |
|------------------------|-------------------------|----------|
| 4313                   | Sepas Peter             | 496-2916 |
| 4316                   | Eagle Jeff              | 496-9144 |
| 4404                   | Peppers Curt J          | 496-3818 |
| 4409                   | Vacant House            |          |
| 4421                   | Pongborn Harvey -H      | 496-3707 |
|                        | Reisner Brian           | 496-3707 |
| 4425                   | Hanes J C               | 496-2498 |
| 4427                   | Williams M L            | 496-2508 |
| 4501                   | Harmon Earl -H          | 496-3258 |
| 4517                   | Fyan Wm A               | 496-3524 |
| 4525                   | McDonald Betty          | 496-2685 |
| 4625                   | Lomas Peter             | 496-9269 |
| 4705                   | Sunset Drive-In Theatre | 496-3850 |
| 4801                   | LeBlanc Rene            | 496-2435 |
|                        | Mach Betsy              | 496-2435 |
|                        | Marshall Kimberly       | 496-2435 |
| 4813                   | Maynard Philip          | 496-3266 |
| ROCKWELL DR intersects |                         |          |
| Midland Limits         |                         |          |

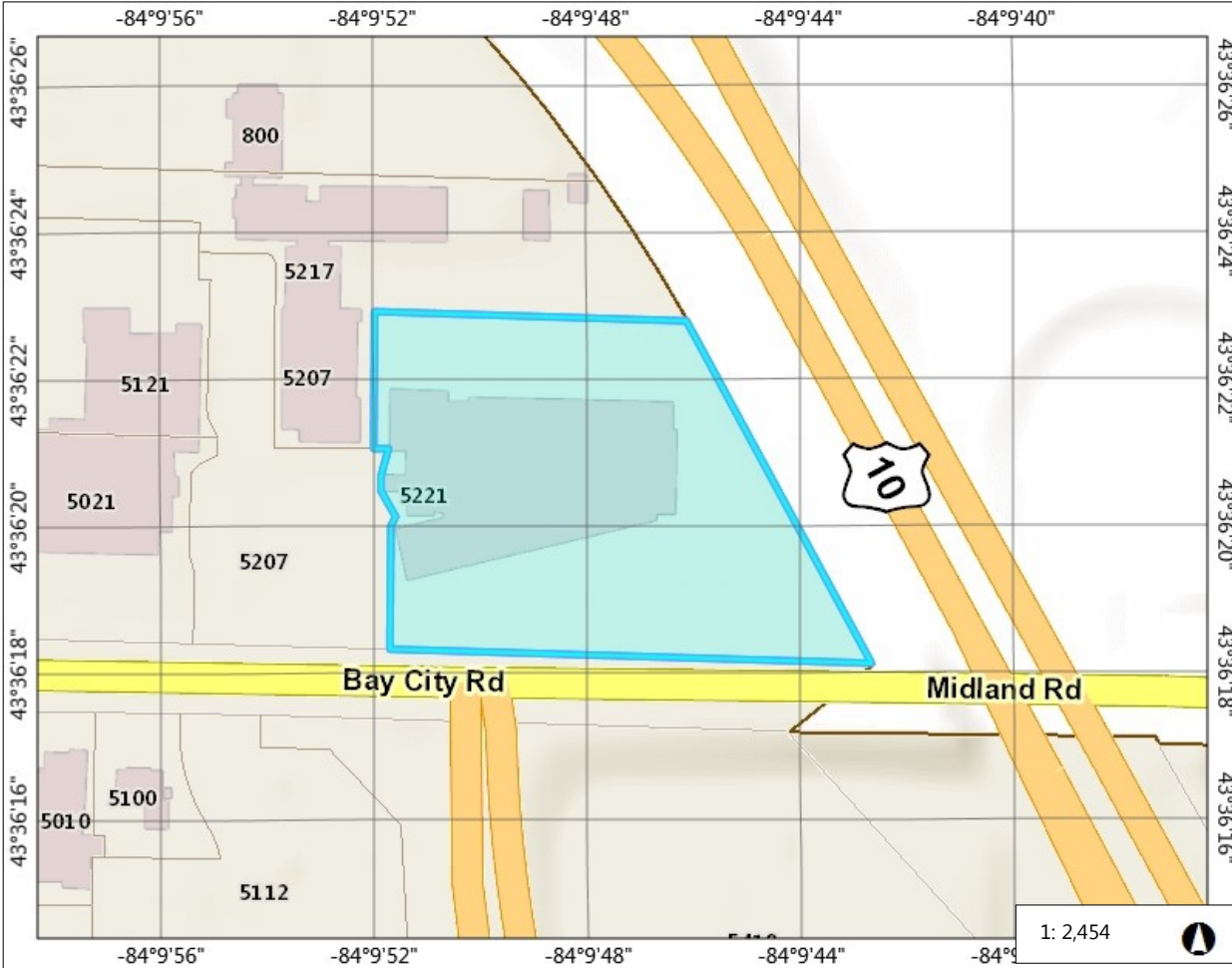
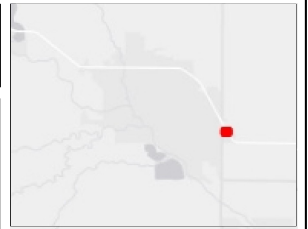
## BAY CITY RD 1975

4313 Hickerson John D Ⓜ Δ496-3854  
 4316 Apple Melvilla E Ⓜ Δ496-3749  
 4319 Lee Jas W Δ496-3296  
 4404 Wentworth Roy Ⓜ Δ496-2607  
 Pierson Hannah Δ496-2607  
 4409 Petricca Edw J Ⓜ  
 4421 Pangborn Harvey Ⓜ Δ496-3707  
 4425 Hanes J C Δ496-2498 (Apt)  
 4427 Rabatin Wm A Δ496-2393  
 4501 No Information  
 4517 Fyan Wm Δ496-3524  
 4525 Hetrick Leroy B Ⓜ  
 4625 Bauer Ronald L Ⓜ Δ496-3877  
 4705 Sunset Drive In Theatre Δ496-3850  
 4801 Price Emma D  
 Phillips Louise  
 Schaefer Anna  
 Lewis Vilora  
 Brown Anna J  
 4813 Maynard Philip Δ496-3266  
 4816 Goodwyn Printing Co Δ496-2400  
 ROCKWELL DRIVE intersects  
 5010 Schweizer's North Δ496-2520  
 Continues on as W Midland Road



# Map My Midland

Map My Midland



## Legend

- City Boundary
- Address Points
- Tax Parcels

## Notes

Enter a Map Description

409.0 0 204.49 409.0 Feet

NAD\_1983\_StatePlane\_Michigan\_South\_FIPS\_2113\_Feet\_Intl  
© Latitude Geographics Group Ltd.

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**THIS MAP IS NOT TO BE USED FOR NAVIGATION**

**5221 BAY CITY RD MIDLAND, MI 48642 (Property Address)**

Parcel Number: 31-19-70-046



Item 1 of 3

[2 Images / 1 Sketch](#)**Property Owner: MPR ENTERPRISES INC****Summary Information**

- > Commercial/Industrial Building Summary
  - Yr Built: 1974
  - # of Buildings: 1
  - Total Sq.Ft.: 102,554
- > Assessed Value: \$801,100 | Taxable Value: \$522,460
- > Property Tax information found

**Owner and Taxpayer Information**

|              |                                                              |                 |                       |
|--------------|--------------------------------------------------------------|-----------------|-----------------------|
| <b>Owner</b> | MPR ENTERPRISES INC<br>5221 BAY CITY RD<br>MIDLAND, MI 48642 | <b>Taxpayer</b> | SEE OWNER INFORMATION |
|--------------|--------------------------------------------------------------|-----------------|-----------------------|

**General Information for Tax Year 2017**

|                            |                           |                                 |                    |
|----------------------------|---------------------------|---------------------------------|--------------------|
| <b>Property Class</b>      | COMMERCIAL, IMPROVED 2011 | <b>Unit</b>                     | 31 BAY COUNTY      |
| <b>School District</b>     | DISTRICT 09010            | <b>Assessed Value</b>           | \$801,100          |
| <b>Map Number</b>          | No Data to Display        | <b>Taxable Value</b>            | \$522,460          |
| <b>User Number Idx</b>     | 0                         | <b>State Equalized Value</b>    | \$801,100          |
| <b>User Alpha 1</b>        | Not Available             | <b>Date of Last Name Change</b> | 03/03/2009         |
| <b>User Alpha 3</b>        | Not Available             | <b>Notes</b>                    | Not Available      |
| <b>Historical District</b> | No                        | <b>Census Block Group</b>       | No Data to Display |
| <b>User Alpha 2</b>        | Not Available             | <b>Exemption</b>                | No Data to Display |

**Principal Residence Exemption Information****Homestead Date** No Data to Display

| Principal Residence Exemption | June 1st | Final    |
|-------------------------------|----------|----------|
| 2018                          | 0.0000 % | -        |
| 2017                          | 0.0000 % | 0.0000 % |

**Previous Year Information**

| Year | MBOR Assessed | Final SEV | Final Taxable |
|------|---------------|-----------|---------------|
| 2016 | \$517,800     | \$517,800 | \$517,800     |
| 2015 | \$531,100     | \$531,100 | \$304,698     |
| 2014 | \$530,600     | \$530,600 | \$299,900     |

**Land Information**

|                                |                       |                                         |                    |
|--------------------------------|-----------------------|-----------------------------------------|--------------------|
| <b>Zoning Code</b>             | RC                    | <b>Total Acres</b>                      | 6.610              |
| <b>Land Value</b>              | \$175,600             | <b>Land Improvements</b>                | \$0                |
| <b>Renaissance Zone</b>        | No                    | <b>Renaissance Zone Expiration Date</b> | No Data to Display |
| <b>ECF Neighborhood</b>        | 20009 COMM BAY COUNTY | <b>Mortgage Code</b>                    | No Data to Display |
| <b>Lot Dimensions/Comments</b> | 2.77 A                | <b>Neighborhood Enterprise Zone</b>     | No                 |

|               |                 |              |
|---------------|-----------------|--------------|
| <b>Lot(s)</b> | <b>Frontage</b> | <b>Depth</b> |
|---------------|-----------------|--------------|

No lots found.

**Total Frontage: 0.00 ft****Average Depth: 0.00 ft****Legal Description**

PART OF NW 1/4 OF SEC 19 BEG AT A PT S 88D 24M 22S E 849.33 FT FROM W 1/4 COR, TH N 219.48 FT, TH N 29D 32M 40S W 28.65 FT, TH N 21.96 FT, TH N 15D 15M 57S E 37.88 FT, TH N 89D 48M 56S W 20.53 FT, TH 00D 23M 46S E 188.87 FT, TH S 88D 24M 22S E 429.41 FT, TH 32.33 FT ALG CUR TO R CHD BRG & DIST S 28D 50M 07S E 32.33 FT, TH S 28D 24M 14S E 562.34 FT, TH N 88D 24M 22S W 691.84 FT TO POB, 6.61 AC, SEC 19, T14N-R3E SUBJ TO ESMTS & ROW OF REC

**Land Division Act Information**

|                                   |                    |                                    |   |
|-----------------------------------|--------------------|------------------------------------|---|
| <b>Date of Last Split/Combine</b> | No Data to Display | <b>Number of Splits Left</b>       | 0 |
| <b>Date Form Filed</b>            | No Data to Display | <b>Unallocated Div.s of Parent</b> | 0 |

|                          |                           |                                      |                      |
|--------------------------|---------------------------|--------------------------------------|----------------------|
| <b>Date Created</b>      | <i>No Data to Display</i> | <b>Unallocated Div.s Transferred</b> | 0                    |
| <b>Acreage of Parent</b> | 0.00                      | <b>Rights Were Transferred</b>       | <i>Not Available</i> |
| <b>Split Number</b>      | 0                         | <b>Courtesy Split</b>                | <i>Not Available</i> |
| <b>Parent Parcel</b>     | <i>No Data to Display</i> |                                      |                      |

#### Sale History

| Sale Date  | Sale Price     | Instrument | Grantor                  | Grantee                  | Liber/Page |
|------------|----------------|------------|--------------------------|--------------------------|------------|
| 05/06/2015 | \$0.00         | QC         | DARSHANA HOSPITALITY LLC | RAPANOS, NICOLAOS A      |            |
| 12/03/2008 | \$3,550,000.00 | LC         | RAPANOS, NICOLAS A       | DARCHANA HOSPITALITY LLC | 2646/474   |

#### Building Information - 102554.00 sq ft Hotel - Limited Service (Commercial)

|                              |                         |                                |                              |
|------------------------------|-------------------------|--------------------------------|------------------------------|
| <b>Floor Area</b>            | 102,554 sq ft           | <b>Estimated TCV</b>           | <i>Not Available</i>         |
| <b>Occupancy</b>             | Hotel - Limited Service | <b>Class</b>                   | D                            |
| <b>Stories Above Ground</b>  | 2                       | <b>Average Story Height</b>    | 8 ft                         |
| <b>Basement Wall Height</b>  | 0 ft                    | <b>Identical Units</b>         | <i>Not Available</i>         |
| <b>Year Built</b>            | 1974                    | <b>Year Remodeled</b>          | <i>Not Available</i>         |
| <b>Percent Complete</b>      | 100%                    | <b>Heat</b>                    | Zoned A.C. Warm & Cooled Air |
| <b>Physical Percent Good</b> | 35%                     | <b>Functional Percent Good</b> | 60%                          |
| <b>Economic Percent Good</b> | 100%                    | <b>Effective Age</b>           | 44 yrs                       |

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**5221 BAY CITY RD** MIDLAND, MI 48642 (Property Address)

Parcel Number: 39-13-50-199 **\*\*Personal Property**



**Property Owner: MPR ENTERPRISES INC #1**

**Summary Information**

> Assessed Value: \$69,000 | Taxable Value: \$69,000

> Property Tax information found

**Owner and Taxpayer Information**

|              |                                                                 |                 |                       |
|--------------|-----------------------------------------------------------------|-----------------|-----------------------|
| <b>Owner</b> | MPR ENTERPRISES INC #1<br>5221 BAY CITY RD<br>MIDLAND, MI 48642 | <b>Taxpayer</b> | SEE OWNER INFORMATION |
|--------------|-----------------------------------------------------------------|-----------------|-----------------------|

**General Information for Tax Year 2017**

|                            |                          |                                 |                    |
|----------------------------|--------------------------|---------------------------------|--------------------|
| <b>Property Class</b>      | COMMERCIAL PERSONAL, BUS | <b>Unit</b>                     | 31 BAY COUNTY      |
| <b>School District</b>     | DISTRICT 09010           | <b>Assessed Value</b>           | \$69,000           |
| <b>Map Number</b>          | No Data to Display       | <b>Taxable Value</b>            | \$69,000           |
| <b>User Number Idx</b>     | 0                        | <b>State Equalized Value</b>    | \$69,000           |
| <b>User Alpha 1</b>        | Not Available            | <b>Date of Last Name Change</b> | 11/09/2016         |
| <b>User Alpha 3</b>        | Not Available            | <b>Notes</b>                    | Not Available      |
| <b>Historical District</b> | No                       | <b>Census Block Group</b>       | No Data to Display |
| <b>User Alpha 2</b>        | Not Available            | <b>Exemption</b>                | No Data to Display |

**Principal Residence Exemption Information**

**Homestead Date** No Data to Display

| MBT Commercial | June 1st   | Final      |
|----------------|------------|------------|
| 2018           | 100.0000 % | -          |
| 2017           | 100.0000 % | 100.0000 % |

**Previous Year Information**

| Year | MBOR Assessed | Final SEV | Final Taxable |
|------|---------------|-----------|---------------|
| 2016 | \$0           | \$0       | \$0           |
| 2015 | \$0           | \$0       | \$0           |
| 2014 | \$0           | \$0       | \$0           |

**Land Information**

|                                |                    |                                         |                    |
|--------------------------------|--------------------|-----------------------------------------|--------------------|
| <b>Zoning Code</b>             |                    | <b>Total Acres</b>                      | 0.000              |
| <b>Land Value</b>              | \$0                | <b>Land Improvements</b>                | \$0                |
| <b>Renaissance Zone</b>        | No                 | <b>Renaissance Zone Expiration Date</b> | No Data to Display |
| <b>ECF Neighborhood</b>        | PERSONAL PROPERTY  | <b>Mortgage Code</b>                    | No Data to Display |
| <b>Lot Dimensions/Comments</b> | No Data to Display | <b>Neighborhood Enterprise Zone</b>     | No                 |

| Lot(s)                  | Frontage | Depth                  |
|-------------------------|----------|------------------------|
| No lots found.          |          |                        |
| Total Frontage: 0.00 ft |          | Average Depth: 0.00 ft |

**Legal Description**

Legal Description not on file.

**Land Division Act Information**

|                                   |                    |                                      |               |
|-----------------------------------|--------------------|--------------------------------------|---------------|
| <b>Date of Last Split/Combine</b> | No Data to Display | <b>Number of Splits Left</b>         | 0             |
| <b>Date Form Filed</b>            | No Data to Display | <b>Unallocated Div.s of Parent</b>   | 0             |
| <b>Date Created</b>               | 11/09/2016         | <b>Unallocated Div.s Transferred</b> | 0             |
| <b>Acreage of Parent</b>          | 0.00               | <b>Rights Were Transferred</b>       | Not Available |

|                      |                    |                       |               |
|----------------------|--------------------|-----------------------|---------------|
| <b>Split Number</b>  | 0                  | <b>Courtesy Split</b> | Not Available |
| <b>Parent Parcel</b> | No Data to Display |                       |               |

#### Sale History

| Sale Date               | Sale Price | Instrument | Grantor | Grantee | Liber/Page |
|-------------------------|------------|------------|---------|---------|------------|
| No sales history found. |            |            |         |         |            |

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**5221 BAY CITY RD MIDLAND, MI 48642** (Property Address)

Parcel Number: 31-19-70-046



Item 1 of 3

[2 Images / 1 Sketch](#)**Property Owner: MPR ENTERPRISES INC****Summary Information**

- > Commercial/Industrial Building Summary
  - Yr Built: 1974
  - # of Buildings: 1
  - Total Sq.Ft.: 102,554
- > Property Tax information found

&gt; Assessed Value: \$801,100 | Taxable Value: \$522,460

**Owner and Taxpayer Information****Owner**MPR ENTERPRISES INC  
5221 BAY CITY RD  
MIDLAND, MI 48642**Taxpayer**

SEE OWNER INFORMATION

**Legal Description**

PART OF NW 1/4 OF SEC 19 BEG AT A PT S 88D 24M 22S E 849.33 FT FROM W 1/4 COR, TH N 219.48 FT, TH N 29D 32M 40S W 28.65 FT, TH N 21.96 FT, TH N 15D 15M 57S E 37.88 FT, TH N 89D 48M 56S W 20.53 FT, TH 00D 23M 46S E 188.87 FT, TH S 88D 24M 22S E 429.41 FT, TH 32.33 FT ALG CUR TO R CHD BRG & DIST S 28D 50M 07S E 32.33 FT, TH S 28D 24M 14S E 562.34 FT, TH N 88D 24M 22S W 691.84 FT TO POB, 6.61 AC, SEC 19, T14N-R3E SUBJ TO ESMTS & ROW OF REC

**Recalculate amounts using a different Payment Date**

You can change your anticipated payment date in order to recalculate amounts due as of the specified date for this property.

Enter a Payment Date **Tax History****Important Messages**

\*Any taxes that are unpaid at the end of February are turned over to the county. Please visit the county's tax website [here](#) for up to date totals after March 1.

**\*\*Note:** On March 1 at 12:00 AM, local taxes become ineligible for payment at the local unit.

| Year | Season | Total Amount | Total Paid  | Last Paid  | Total Due          |                           |
|------|--------|--------------|-------------|------------|--------------------|---------------------------|
| 2017 | Winter | \$2,895.95   | \$0.00      |            | <b>\$2,895.95</b>  |                           |
| 2017 | Summer | \$28,927.71  | \$28,927.71 | 09/15/2017 | \$0.00             |                           |
| 2016 | Winter | \$3,079.32   | \$3,079.32  | 02/14/2017 | \$0.00             |                           |
| 2016 | Summer | \$29,741.16  | \$0.00      |            | <b>\$29,741.16</b> | <b>** Read Note Above</b> |
| 2015 | Winter | \$1,765.80   | \$1,765.80  | 02/15/2016 | \$0.00             |                           |
| 2015 | Summer | \$17,501.06  | \$17,501.06 | 10/12/2015 | \$0.00             |                           |
| 2014 | Winter | \$1,738.04   | \$1,738.04  | 02/19/2015 | \$0.00             |                           |
| 2014 | Summer | \$16,575.12  | \$16,575.12 | 09/15/2014 | \$0.00             |                           |
| 2013 | Winter | \$1,710.65   | \$1,710.65  | 02/14/2014 | \$0.00             |                           |
| 2013 | Summer | \$16,326.01  | \$16,326.01 | 08/30/2013 | \$0.00             |                           |
| 2012 | Winter | \$1,670.56   | \$1,670.56  | 02/14/2013 | \$0.00             |                           |
| 2012 | Summer | \$15,858.96  | \$15,858.96 | 09/12/2012 | \$0.00             |                           |
| 2011 | Winter | \$2,726.75   | \$2,726.75  | 02/14/2012 | \$0.00             |                           |
| 2011 | Summer | \$29,191.67  | \$29,191.67 | 09/15/2011 | \$0.00             |                           |

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**5221 BAY CITY RD** MIDLAND, MI 48642 (Property Address)

Parcel Number: 39-13-50-199 **\*\*Personal Property**



**Property Owner: MPR ENTERPRISES INC #1**

**Summary Information**

> Assessed Value: \$69,000 | Taxable Value: \$69,000

> Property Tax information found

**Owner and Taxpayer Information**

**Owner**

MPR ENTERPRISES INC #1  
5221 BAY CITY RD  
MIDLAND, MI 48642

**Taxpayer**

SEE OWNER INFORMATION

**Legal Description**

Legal Description not on file.

**Recalculate amounts using a different Payment Date**

You can change your anticipated payment date in order to recalculate amounts due as of the specified date for this property.

Enter a Payment Date

**Tax History**

**Important Message**

\*Any taxes that are unpaid at the end of February are turned over to the county. Please visit the county's tax website [here](#) for up to date totals after March 1.

| Year | Season | Total Amount | Total Paid | Last Paid  | Total Due       |  |
|------|--------|--------------|------------|------------|-----------------|--|
| 2017 | Winter | \$382.44     | \$0.00     |            | <b>\$382.44</b> |  |
| 2017 | Summer | \$2,984.09   | \$2,984.09 | 09/15/2017 | \$0.00          |  |

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