Environmental Consulting & Technology, Inc.
1155 Brewery Park Blvd., Suite 115, Detroit, Michigan 48207

BASELINE ENVIRONMENTAL ASSESSMENT

for
Pittsfield Charter Township

of the
Undeveloped Parcel (3.98 acres)
Southwest Corner of West Waters Road and Oak Valley Drive (Parcel: L-12-07-200-03)
Pittsfield Township, Michigan 48103

For submission to:
Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Southeast Michigan District Office
27700 Donald Court
Warren, Michigan 48092

October 26, 2018
ECT No. 180469-0300

Document Review

The dual signatory process is an integral part of Environmental Consulting & Technology, Inc.'s (ECT's) Document Review Policy No. 9.03. All ECT documents undergo technical/peer review prior to dispatching these documents to any outside entity.

The environmental assessment described herein was conducted by the undersigned employees of ECT. ECT's investigation consisted solely of the activities described in the Introduction of this report, and in accordance with the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment, as applicable.

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

This document has been authored and reviewed by the following employees:

Maura Gibbons	Dirk Mammen
Author	Peer Review
Signature	Signature
October 26, 2018	October 26, 2018
Date	Date

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List of Acronyms

AAI	All Appropriate Inquiry
ASTM	American Society for Testing and Materials
BEA	Baseline Environmental Assessment
bgs	Below ground surface
CAS	Chemical Abstract Service Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
DC	Direct Contact
DWP	Drinking Water Protection
ECT	Environmental Consulting & Technology, Inc.
EDR	Environmental Data Resources, Inc.
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Registry System
GRCC	Generic Residential Cleanup Criteria
GSI	Groundwater Surface Water Interface
MBSS	Michigan Background Soil Survey
MDEQ	Michigan Department of Environmental Quality
NREPA	Natural Resources and Environmental Protection Act
PCB	Polychlorinated Biphenyls
PID	Photoionization Detector
ppm	Parts per million
REC	Recognized Environmental Condition
SWF/LF	Solid Waste Facilities/Landfill
ug/kg	Micrograms per kilograms

1.0 Introduction and Discussion

This Baseline Environmental Assessment (BEA), as defined by the Environmental Remediation, Part 201 of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended, and the Part 201 Rules promulgated thereunder, has been completed by Environmental Consulting & Technology, Inc. (ECT) on behalf of Pittsfield Charter Township (the Client), of the approximately 3.98-acre parcel located at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Charter Township, Washtenaw County, Michigan (herein referred to as the Subject Property). This BEA has been completed pursuant to Section 20126(1)(c) of Part 201 of NREPA PA 451 of 1994, as amended (Part 201).

In conducting this BEA, ECT has considered the results of a historical property use review and a physical reconnaissance performed in general conformance with the scope and limitation of American Society for Testing and Materials (ASTM) Practice E 1527-13 to satisfy the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) with regard to having undertaken "all appropriate inquiry (AAI) into the previous ownership and uses of the Subject Property consistent with good commercial or customary practices" for conducting a Phase I Environmental Site Assessment (ESA). ECT has also obtained and reviewed data from sampling and analytical testing to adequately describe the environmental conditions that exist at the Subject Property at the time of the acquisition by the Submitter.

1.1 Owner/Operator Information

The owner of the Subject Property is Waters Oak Valley, LLC, and the Submitter of this BEA is Pittsfield Charter Township.

1.2 Intended Use of Property

The Submitter intends to redevelop the Subject Property into a nature preserve and to maintain it in a manner consistent with local zoning and land-use ordinances. Operation of the Subject Property will not require the use of hazardous substances in a manner that would be considered a significant hazardous substance use as defined in Rule 901(o). This is the basis for being able to distinguish the existing contamination from any future release of a hazardous substance on the Subject Property.

1.3 Summary of Environmental Findings

On August 10, 2018, ECT, on behalf of the Client, completed a Phase I ESA in general conformance with the scope and limitations of ASTM Practice E 1527-13 for the Subject Property. The Phase I ESA identified one (1) recognized environmental condition (REC) in connection with the Subject Property which is as follows:

- A geotechnical survey conducted on the Subject Property indicated that the site has been filled with compacted sand and occasional broken brick and concrete. There were no records available that provided information as to when the site was filled, the origin of the fill material, or if the fill material has been characterized for potential contaminants.

Based on this finding, ECT recommended and later completed an additional site investigation in the form of subsurface soil sampling activities at the Subject Property to assess the potential environmental impact, if any of the identified REC.

A copy of ECT's Phase I ESA is attached hereto as **Appendix A.** A copy of ECT's Phase II ESA, dated October 15, 2018 is attached as **Appendix B.**

The Submitter is unaware of any abandoned or discarded containers currently present on the Subject Property. Therefore, form EQP4476 is not required as part of this BEA.

1.4 Exceptions or Deletions from AAI Rule

ECT's research included a review of city directories, aerial photographs, topographic maps, property deeds, tax assessor's records, historical sources, and personal interviews conducted with individuals and public officials having knowledge of the Subject Property. A systematic review of environmental databases maintained by state and federal government agencies was also performed as required and defined by ASTM Practice E 1527-13. Accordingly, while ECT is unaware of any limitations or exceptions from the standard practice, it recognizes inherent limitations for Phase I ESAs in general, including but not limited to the elimination of uncertainty, non-exhaustive assessment and variable level of inquiry. Readers of this BEA are directed to Section 2.3 of ECT's Phase I ESA, provided as **Appendix A**, for an explanation of these limitations.

1.5 Discussion of Data Gaps

In accordance with ASTM Practice E 1527-13, ECT was required to identify any data gaps and comment on their significance on the ability to identify RECs for the Subject Property. As stated in Section 8.0 of the Phase I ESA, provided as **Appendix A**, ECT identified the following deviations or "significant" data gaps, as defined by §312.10 of AAI final rule and §12.7 of ASTM E1527-13 for the Subject Property:

- The AAI standard and ASTM practice indicates that the Tribal equivalent of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), Solid Waste Facilities/Landfill (SWF/LF), Institutional Control/Engineering Controls, Voluntary Cleanup, and Brownfield databases be searched. It is the understanding of ECT that these databases are not available for the State of Michigan. The impact of this deviation is considered negligible with regard to identifying RECs on the Subject Property.

- The uses of the Subject Property prior to 1904 were not identified.

- The dense vegetation in the woodland areas made it difficult to collect visual observations and photos.

ECT was able to determine the historical usage of the Subject Property from the information source available for review. Sufficient information was available to warrant a subsequent Phase II evaluation.

1.6 Environmental Sampling

On October 15, 2018, ECT performed a Phase II ESA on behalf of the Submitter for the purpose of evaluating the current environmental condition of the Subject Property. Specifically, the following evaluation activities were completed:

1.6.1 Soil Sampling

On October 15, 2018, ECT collected soil samples by advancing four (4) soil borings using hand auger methods to a depth of three (3) feet below ground surface (bgs). Following the retrieval of each soil interval, soils were described and logged by a field technician in accordance with the Unified Soil Classification System and field screened for ionizable volatile organic compounds using a MiniRae 3000 photoionization detector (PID)

equipped with a 10.6 electron volt lamp. The PID has a minimum detection limit of one part per million (ppm) and was calibrated daily prior to usage. Soil samples were collected for laboratory analysis based on soil type, sample depth, visual observations, and screening results. At the conclusion of sampling activities, all soil borings were backfilled with the original soil cuttings.

Using a hand auger, soil borings HA-1 through HA-4 were advanced to the shallow subsurface to evaluate for potential contaminants in connection with the fill material on the Subject Property. One (1) soil sample was collected from each boring, and the samples were analyzed for polychlorinated biphenyls (PCBs) and Michigan metals using Environmental Protection Agency (EPA) Method 6020A. Based on minor PID screening readings, the soil samples were not analyzed for volatile organic compounds and polynuclear aromatic hydrocarbons. Soil samples submitted for laboratory analyses were placed in an ice-filled cooler for storage and transportation to the analytical laboratory, Pace Analytical.

1.7 Location of Known Contamination

The Soil Analytical Summary is provided as **Table 1** and compares the results of the soil analytical testing to the current Michigan Department of Environmental Quality (MDEQ) Part 201 Generic Residential Cleanup Criteria (GRCC). The Boring Location Map is provided as **Figure 3** of the Phase II report and provides the sample location, depths, and contaminant concentrations.

Although several of the analytical results were found to exceed the MDEQ Part 201 GRCC, the MDEQ allows comparison of these concentrations to a regionally based criteria that is more reflective of naturally occurring metals based on the local glacial geology. As such, these results are compared to the Michigan Background Soil Survey (MBSS) for topsoil within the Huron-Erie Glacial Lobe Area. A summary of the analytical soil results is presented below:

- Arsenic was detected in all soil samples at concentrations ranging between 6,300 to 9,700 micrograms per kilograms (ug/kg). Although these concentrations exceed the GRCC for drinking water protection (DWP) (4,600 ug/kg), groundwater surface water interface (GSI) (4,600 ug/kg) criteria, and direct contact (DC) (7,600 ug/kg) criteria at locations HA-1 and HA-2, they do not exceed the MBSS background criteria (11,000 ug/kg).

- Chromium (total) was detected in all soil samples at concentrations ranging between 17,800 to 21,900 ug/kg. Although the concentrations of chromium (total) in the soil samples collected from boring HA-2, HA-3, and HA-4 exceed the GSI (3,300 ug/kg) criteria, they do not exceed the MBSS background criteria (37,000 ug/kg).

- Selenium was detected in all soil samples at concentrations ranging between 6,000 to 7,700 ug/kg. The concentrations of selenium in all soil samples exceed the DWP (4,000 ug/kg) and GSI (400 ug/kg) criteria of the GRCC, as well as the MBSS background criteria (3,900 – 4,700 ug/kg).

- Other metals were detected in the soil samples; however, the concentrations were below their respective GRCC.

- PCBs were not detected in the soil samples.

The analytical laboratory testing reports are included within the Phase II ESA in **Appendix B**.

1.8 Basis for Concluding Facility Status

A comparison of analytical data obtained as a result of ECT's October 2018 soil sampling to the MDEQ Part 201 GRCC and MBSS indicates the presence of selenium exceeding the corresponding levels established for residential uses under the NREPA, 1994 PA 451, as amended. Accordingly, the Subject Property described herein meets the definition of a "facility" under Part 201 of the NREPA.

1.9 Previous BEAs

ECT is not aware of any previous BEAs that were prepared for the Subject Property.

2.0 Property Information

2.1 Legal Description

The Subject Property is comprised of a single parcel containing approximately 3.98 acres of undeveloped land. The legal description of the Subject Property is below:

Parcel #L-12-07-200-003: "*OLD SID – L-12-007-019-00 PI 7-5H-1 COM AT N ¼ COR OF SEC 7, TH W 649.95 FT ON N/L OF SECTO POB, TH W 292 FT ON SAID N/L, TH DEFL 89-42-30 LFT 594 FT, TH DEFL 90-17-30 LFT 292 FT, TH DEFL 89-42-30 LFT 594 FT TO POB PART NW ¼ SEC 7 T3S R6E 3.98 AC."

2.2 Property Boundaries

The Subject Property is bordered to the north by West Waters Road and to the east by Oak Valley Drive. During the site visit, the Subject Property was observed to be approximately three (3) feet higher than the sidewalk bordering to the north. The surrounding area is a mixture of residential and commercial properties. The Site Location Map is provided as **Figure 1**, and the Site and Surrounding Properties Map is provided as **Figure 2**.

2.3 Site Map

The Boring Location Map is provided as **Figure** 3, which is a scaled site map showing boring locations, sample depth intervals, and exceeding analytical results compared to the MDEQ Part 201 GRCC.

2.4 Subject Property Location

The Subject Property is currently comprised of a single parcel of land, comprising approximately 3.98 acres, located at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Charter Township, Michigan.

2.5 Spatial Data

The Subject Property is part of the Northwest ¼ of Section 7, Township 3 South, Range 6 East, in Washtenaw County, Michigan. A geographic reference point for the Subject Property (Latitude [North]: 42.2424710 - 42° 14' 32.89", Longitude [West]: 83.7719150 - 83° 46' 18.89) was determined by Environmental Data Resources, Inc. (EDR) as part of the radial search activities and database review performed in support of ECT's Phase I ESA.

3.0 Facility Status

3.1 Known Contamination

Selenium, with the Chemical Abstract Service (CAS) Number of 7782-49-2, was identified by ECT as exceeding the DWP and GSI criteria of the MDEQ Part 201 GRCC in addition to the MBSS. All other metals detected were below their respective GRCC and/or the MBSS.

3.2 Laboratory Data

Copies of the analytical laboratory reports with the chain-of-custody documentation for the samples collected by ECT in September 2018 are included in **Appendix B**.

4.0 BEA Author

The primary author of this BEA was Ms. Maura Gibbons, whose contact information is provided as follows:

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BEA Review and Interpreter of this BEA was Mr. Dirk Mammen who is a qualified Environmental Professional with over 30 years of experience in the environmental industry. His experiences include the management and review of hundreds of Phase I and II ESAs, BEAs, and Due Care Plans. His contact information is as follows:

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5.0 Phase I ESA and AAI Documentation

A Phase I ESA, completed by ECT, is included as **Appendix A**. The Phase I ESA was completed in general accordance with ASTM Practice E 1527-13. The purpose of ASTM Practice E 1527-13 is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of commercial real estate properties with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA; 42 U.S.C. §9601) and petroleum products. The objective of Phase I ESAs is to provide all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B) to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (a.k.a., landowner liability protections). The Phase II ESA report is included in **Appendix B** and was completed in general accordance with ASTM Practice E1903-11, the Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

This BEA has been completed pursuant to Section 20126(1)(c) of Part 201 of the Natural Resources and Environmental Protection Act (NREPA) PA 451 of 1994, as amended (Part 201). In the preparation of this BEA, ECT considered hazardous substances as defined by Section 20101(1)(y) and/or regulated substances as defined by Section 21303(g). This BEA follows the suggested format for the "Contents of BEA Report," presented in EQP 4012 (02/2015).

6.0 References

Part 201 of the Natural Resources and Environmental Protection Act, Public Act 451 of 1994, as amended.

ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

ASTM Practice E1903-11, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

Phase I Environmental Site Assessment, Undeveloped Parcel (3.98 acres), West Waters Road and Oak Valley Drive, Ann Arbor, Michigan, prepared by Environmental Consulting & Technology, Inc., August 10, 2018.

Phase II Environmental Site Assessment, Undeveloped Parcel (3.98 acres), West Waters Road and Oak Valley Drive, Ann Arbor, Michigan, prepared by Environmental Consulting & Technology, Inc., October 15, 2018.

Soils Investigation: Condominium Development, Waters Road and Oak Valley Drive, prepared by McDowell and Associates, December 30, 1998.

Environmental Consulting & Technology, Inc.

1155 Brewery Park Blvd., Suite 115, Detroit, Michigan 48207

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

for
Pittsfield Charter Township

of the
Undeveloped Parcel (3.98 acres)
West Waters Road and Oak Valley Drive
Ann Arbor, Michigan 48103

Detroit, Michigan

August 10, 2018

ECT No. 180469-0100

Complex Challenges . . . PRACTICAL SOLUTIONS

Signature(s) of Environmental Professional(s)

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

This document has been authored and reviewed by the following employees:

Maura Gibbons	Dirk Mammen
Author	Peer Review
Signature	Signature
August 7, 2018	August 7, 2018
Date	Date

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List of Acronyms

AAI	All Appropriate Inquiry
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AUL	Michigan Activity Use Limitations
BEA	Baseline Environmental Assessment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CREC	Controlled Recognized Environmental Condition
DWSD	Detroit Water and Sewerage Department
ECT	Environmental Consulting & Technology, Inc.
EDR	Environmental Data Resources, Inc.
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Registry System
HREC	Historical Recognized Environmental Condition
MDEQ	Michigan Department of Environmental Quality
NonGen	Non-generator
LUST	Leaking Underground Storage Tank
PCB	Polychlorinated biphenyls
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RRD	Remediation and Redevelopment Division
SEMS	Superfund Enterprise Management System
SWF/LF	Solid Waste Facilities/Landfill
USGS	United States Geological Survey
UST	Underground Storage Tank
WDS	Waste Data System

1.0 Summary

Environmental Consulting & Technology, Inc. (ECT) was retained by Pittsfield Charter Township (the Client) to perform a Phase I Environmental Site Assessment (ESA) of the approximately 3.98-acre parcel located at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Charter Township, Washtenaw County, Michigan (herein referred to as the Subject Property). A Site Location Map is provided as **Figure 1.**

The Client is the prospective purchaser who is considering acquisition of the Subject Property. The purpose of this assessment was to identify potential adverse environmental conditions associated with the Property, which include any Recognized Environmental Conditions (RECs), Historical Recognized Environmental Conditions (HRECs) or Controlled Recognized Environmental Conditions (CRECs) that may exist or have existed on the Subject Property. The research attempted to identify conditions indicative of an existing release, past release, or a material threat of a release of any hazardous substances or petroleum products. RECs, HRECs and CRECs do not include *de minimi*s conditions that generally do not present a material risk of harm to public health or the environment and that would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Based on a review of reasonably ascertainable historical records, the Subject Property has historically been used as agricultural land as early as 1937 through approximately the late 1980's. At the time of the site reconnaissance, the Subject Property was undeveloped, covered by grass and densely vegetated woodland. A Site and Surrounding Properties Map is provided in **Figure 2.**

ECT has performed this Phase I ESA in conformance with the scope and limitations of ASTM Standard E 1527-13 of the approximately 3.98-acre parcel located at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Township, Washtenaw County, Michigan. This assessment identified one (1) REC, no HRECs, and no CRECs in connection with the Subject Property. Based on these findings, ECT believes that additional site investigation in the form of subsurface sampling activities at the Subject Property are not required.

A *de minimis* condition was identified in connection with the Subject Property during this assessment:

- The Subject Property has been historically used as agricultural land with the potential of historical pesticide, herbicide, and fertilizer use as early as 1937 until approximately the late 1980's. However, there was no indication of improper applications or excessive use of the materials, and no evidence of stained soil or stressed vegetation.

2.0 Introduction

At the request of the Client, ECT has conducted a Phase I ESA of the Subject Property, situated at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Township Michigan. The Subject Property is part of the Northwest ¼ of Section 7, 3 South, Range 6 East, in Washtenaw County, Michigan.

The land area subject to this Phase I ESA is comprised of a single parcel, containing approximately 3.98 acres of undeveloped land. At the time of the site reconnaissance, the Subject Property was undeveloped, covered by grass and densely vegetated woodland.

The purpose of ASTM Practice E 1527-13 is to define good commercial and customary practice in the United States of America for conducting an *environmental site assessment* of *commercial real estate* properties with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA; 42 U.S.C. §9601) and *petroleum products*. The goal of the processes established by ASTM Practice E 1527-13 is to identify *recognized environmental conditions* (*RECs*) and *de minimis* conditions. Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report.

The objective of Phase I ESAs is to provide *all appropriate inquiries* into the previous ownership and uses of the *property* consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35) (B) to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations on CERCLA liability (a.k.a., *landowner liability protections*). The goal of Phase I ESAs is to identify current, historical, and controlled recognized environmental conditions (RECs) and *de minimis* conditions in connection with the property, to the extent feasible pursuant to the processes prescribed in the ASTM E 1527-13 guidelines. The terms current, historical, and controlled RECs and *de minimis* conditions are defined by ASTM in the following paragraphs.

A current REC is the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (*1*) due to any *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*. The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

A historical REC is a past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the *Subject 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 *Subject Property* to any required controls.

A controlled REC is a *REC* 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 restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).

A *de minimis* condition is a condition that generally does not present a threat to human health or the *environment* and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not current, historical, or controlled *RECs*.

2.1 Detailed Scope of Services

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

- A site reconnaissance of the Subject Property to look for evidence of a release(s) or potential release of petroleum products and hazardous materials;
- Observations of adjacent properties and the site vicinity;
- Interviews with individuals familiar with the Subject Property, as available;
- Review of regulatory agency and local files, as necessary;
- Review of historical documents, as available; and,
- Preparation of a report presenting ECT's findings, including a summary of conclusions and recommendations.

2.2 Significant Assumptions

ECT assumes that the information provided by the regulatory database electronic search report provider, the regulatory agencies, the local unit of government, and the current Subject Property owner is true and reliable.

2.3 Limitations and Exceptions

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ECT and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that ECT relied upon any information prepared by other parties not under contract to ECT, ECT makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

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

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

2.4 Special Terms and Conditions

The scope of work for this Phase I ESA did not include testing of electrical equipment for the potential presence of polychlorinated biphenyls (PCBs), lead based paint, or the assessment of natural hazards such as naturally-occurring asbestos, radon, or methane gas, assessment of the potential presence of radionuclides, or assessment of non-chemical hazards such as the potential for damage from earthquakes or floods. This Phase I ESA also did not include an extensive assessment of the environmental compliance status of the Subject Property or of the businesses that have operated on-site, or a health-based risk assessment.

2.5 User Reliance

This Phase I ESA was conducted for the use of and reliance by the Client and their assignees and may be relied upon by these parties only. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from ECT. ECT is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

3.0 Site Description

3.1 Location and Legal Description

The Subject Property is comprised of a single parcel containing approximately 3.98 acres of undeveloped land, situated at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Township, Michigan. The Subject Property is part of the Northwest ¼ of Section 7, Township 3 South, Range 6 East, in Washtenaw County, Michigan. The legal description of the Subject Property is below:

Parcel #L-12-07-200-003: "*OLD SID – L-12-007-019-00 PI 7-5H-1 COM AT N ¼ COR OF SEC 7, TH W 649.95 FT ON N/L OF SECTO POB, TH W 292 FT ON SAID N/L, TH DEFL 89-42-30 LFT 594 FT, TH DEFL 90-17-30 LFT 292 FT, TH DEFL 89-42-30 LFT 594 FT TO POB PART NW ¼ SEC 7 T3S R6E 3.98 AC."

3.2 Site and Vicinity General Characteristics

The Subject Property is situated along the south side of West Waters Road and along the west side of Oak Valley Drive, in Pittsfield Charter Township, Michigan. The Subject Property has an approximate elevation of 917 feet above sea level and is topographically flat. During the site visit, the Subject Property was observed to be approximately three (3) feet higher than the sidewalk bordering to the north. The surrounding area is a mixture of residential and commercial properties.

3.3 Current Use of the Property

At the time of the site reconnaissance, the Subject Property was undeveloped, covered by grass and densely vegetated woodland. Overhead utility lines transected through the south central portion of the Subject Property, and a drain was observed in the vegetated areas throughout the southern portion of the Subject Property. A Site and Surrounding Properties Map is provided in **Figure 2.**

3.4 Previous Site Investigations

Previous site investigations were not provided to ECT.

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

3.5.1 General Descriptions of Structures

At the time of the site visit, no structures were observed on the Subject Property.

3.5.2 Roads

The Subject Property can be accessed by West Waters Road to the north and by Oak Valley Drive to the east.

3.5.3 Potable Water Supply

The Subject Property is currently not connected to potable water supplies. However, the surrounding properties are supplied with potable water from Ypsilanti Community Utilities Authority.

3.5.4 Sewage Disposal System

The Subject Property is currently not connected to sanitary sewer service. However, the surrounding properties are supplied with sanitary sewer service from Ypsilanti Community Utilities Authority.

3.6 Current Uses of the Adjoining Properties

The Subject Property is bordered to the north by West Waters Road and to the east by Oak Valley Drive. Opposite of West Waters Road, residential properties are observed in the north direction. Opposite of Oak Valley Drive, the east adjoining property is commercially developed and occupied by a mixed retail structure, including restaurants, salons, and a grocery store. The Subject Property is bordered to the south by undeveloped land; a residential dwelling is observed further south. A residential property, occupied by a dwelling, a garage, and a shed, borders the Subject Property to the west.

4.0 User Provided Information

On July 30, 2018, an interview was conducted via telephone with Mr. Mark Pascoe, P.E of Stantec, who has been retained by the Township. His responses were used to complete the User Provided Information section of this report.

4.1 Title Records

An environmental chain-of-title search was not provided to ECT by the Client. Based on reasonably ascertainable resources, the Subject Property is currently owned by Waters Oak Valley LLC.

4.2 Environmental Liens or Activity and Use Limitations

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

- Are you aware of any environmental cleanup liens against the Subject Property that are filed or recorded under federal, tribal, state or local law?

- Are you aware of any activity or land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the Subject Property and/or have been filed or recorded in a registry under federal, tribal, state or local law?

Mr. Pascoe indicated that he was not aware of any activity or land use limitations, or environmental liens that have been filed or recorded against the Subject Property under federal, tribal, state or local law.

ECT reviewed the Michigan Department of Environmental Quality (MDEQ) Remediation and Redevelopment Division (RRD) Perfected Lien List to identify if any environmental liens had been placed on the Subject Property. The Perfected Lien List is updated when the RRD has perfected a new lien on a property or has released a lien from a property. The list, updated through May 4, 2018, did not identify any environmental liens associated with the Subject Property.

4.3 Specialized Knowledge

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

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

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

    a) Do you know the past uses of the Subject Property?

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

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

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

- Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Subject Property?

- Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Subject Property?

- Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

Mr. Pascoe indicated the Subject Property is vacant with no prior development. Mr. Sallen indicated he was unaware of any spills, releases, cleanups, or litigations associated with the Subject Property.

4.4 Commonly Known or Reasonably Ascertainable Information

Mr. Pascoe indicated he has no knowledge of any environmental response activities to have taken place, and no knowledge of any obvious indicators that point to the presence or likely presence of releases at the Subject Property. However, Mr. Pascoe stated that a geotechnical survey conducted on the Subject Property which indicated that the site has been filled with compacted sand and occasional broken brick and concrete. He is unaware of when the site was filled, the origin of the fill material, and if the fill material has been characterized for potential contaminants.

4.5 Valuation Reduction for Environmental Issues

Mr. Pascoe is not aware of any valuation reduction due to environmental issues associated with the Subject Property.

4.6 Owner, Property Manager, Occupant Information

The Subject Property is unoccupied and owned by Waters Oak Valley LLC.

4.7 Reason for Performing Phase I ESA

The reason for performing this Phase I ESA is to evaluate the presence/absence of RECs in anticipation of a potential property transfer.

5.0 Records Review

The following section presents the results of a review of regulatory agency file information and ECT's historical records review, including aerial photographs, topographic maps, Sanborn Fire Insurance maps, and city directories pertaining to the Subject Property, adjacent properties, and proximate properties.

5.1 Standard Environmental Record Sources

Regulatory agency database information was obtained from Environmental Data Resources, Inc., (EDR), which maps and lists properties in federal and state environmental databases with existing conditions or status that may have the potential to affect the Subject Property. The EDR Radius Map™ Report with Geocheck® is provided as **Appendix A**.

5.1.1 Federal and State Environmental Record Sources

Table 1-1 provides a summary of the databases that were reviewed in accordance with the ASTM E 1527-13 requirements.

Table 1-1. Regulatory Database Information

Type	Regulatory Agency Database	Approximate Minimum Search Distance	Number of Sites within Approximate Minimum Search Distance
Federal	National Priority List (NPL) Sites	1 mile	0
Federal	Delisted National Priority List (NPL) Sites	1 mile	0
Federal	Superfund Enterprise Management System (SEMS) formerly known as Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Sites	½ mile	0
Federal	SEMS-ARCHIVE, formerly known as the CERCLIS No Further Remediation Action Planned (NFRAP) Sites	½ mile	0
Federal	Resource Conservation and Recovery Act (RCRA) Corrective Action Report (CORRACTS) Sites	1 mile	0
Federal	RCRA non-CORRACTS Treatment, Storage or Disposal (TSD) Sites	½ mile	0
Federal	RCRA Large Quantity Generators (LQG) Sites	¼ mile	1
Federal	RCRA Small Quantity Generators (SQG) Sites	¼ mile	1
Federal	RCRA Conditionally Exempt Small Quantity Generators (CESQG) Sites	¼ mile	2
Federal	Institutional/Engineering Controls	½ mile	0
Federal	Emergency Response Notification System	Site	0
State	State and Tribal Equivalent CERCLIS (SHWS)	1 mile	0
State	Solid Waste Disposal/Landfill (SWF/LF) Sites	½ mile	0
State	Leaking Underground Storage Tanks (LUST)	½ mile	1
State	Underground Storage Tanks (UST)	¼ mile	0

State	Institutional/Engineering Controls	½ mile	1
State	Brownfields	½ mile	0
State	Baseline Environmental Assessments (BEA)	½ mile	0

The Subject Property was not identified in any environmental databases.

Further review of sites identified in the EDR report that adjoin the Subject Property were evaluated for potential environmental concerns. Opposite of Oak Valley Drive, Bitech Inc. of North Carolina (Performance Bicycle) is a part of the mixed retail structure that adjoins the Subject Property to the west and is listed under the RCRA-CESQG database. However, no violations have been found. No other adjoining properties were identified in environmental databases.

5.2 Additional Environmental Record Sources

EDR provides Exclusive Records containing manufactured gas plant (MGP), US Historical Auto Station, and US Historical Cleaners properties. Opposite of Oak Valley Drive, Village Center Cleaners was a part of the mixed retail structure that adjoins the Subject Property to the west and is listed under the US Historical Cleaners database in 1999 as a dry-cleaning plant. No other properties were listed in EDR's Exclusive Records. The orphan summary list in the EDR-Radius Map report identifies properties that cannot be mapped due to poor or inadequate address information. No properties were listed on the orphan summary list.

5.3 Physical Setting Source(s)

ECT reviewed the 2014 U.S. Geological Survey (USGS) 7.5-Minute Series quadrangle map of Saline, Ann Arbor East, Ypsilanti West, and Ann Arbor West, Michigan. The Subject Property is located in a mostly residential area at an approximate elevation of 917-feet above mean sea level. West Waters Road and Oak Valley Drive are depicted where they currently lie today.

5.4 Historical Use Information on the Property

To evaluate historical use of the property, ECT reviewed readily available topographic maps, aerial photographs, street directories, and fire insurance maps.

5.4.1 Topographic Maps

ECT obtained available historical topographic maps of the Subject Property and vicinity from EDR. Copies of the available historic topographic maps are provided as **Appendix B.** A summary of the maps obtained from EDR for the Subject Property is included in Table 1-2 below:

Table 1-2. Historical Topographic Maps (Subject Property)

Year	Quadrangle Map	Series	Description
1904	Ann Arbor	30-minute	The Subject Property appears undeveloped, but the south central portion is illustrated with a creek flowing west to east. The Subject Property is bordered to the north by West Waters Road; no other roads border the Subject Property.
1906	Saline	30-minute	
	South Lyon	30-minute	
	Ypsilanti	30-minute	
	Dexter	30-minute	
1908	Ann Arbor	30-minute	
1965	Ann Arbor East	7.5-minute	The Subject Property remains undeveloped, and the creek is not depicted. West Waters Road borders the Subject Property to the north; no other roads border the Subject Property.
	Ann Arbor West	7.5-minute	
1967	Saline	7.5-minute	
	Ypsilanti West	7.5-minute	
1973	Ann Arbor East	7.5-minute	
	Ypsilanti West	7.5-minute	
1975	Saline	7.5-minute	
	Ann Arbor West	7.5-minute	
1983	Saline	7.5-minute	
	Ann Arbor East	7.5-minute	
	Ypsilanti West	7.5-minute	
	Ann Arbor West	7.5-minute	
2014	Saline	7.5-minute	The Subject Property remains undeveloped. The Subject Property is bordered to the north by West Waters Road and to the east by Oak Valley Drive.
	Ann Arbor East	7.5-minute	
	Ypsilanti West	7.5-minute	
	Ann Arbor West	7.5-minute	

5.4.2 Aerial Photographs

ECT obtained historical aerial photographs of the Subject Property and vicinity from EDR. A review of historical aerial photographs documents changes that have occurred in land uses and features located at the Subject Property and on adjoining properties. Copies of the historical aerial photographs are provided in **Appendix C**. Descriptions of the Subject Property, as shown on the aerial photographs, are summarized in Table 1-3 below.

Table 1-3. Aerial Photographs (Subject Property)

Year	Scale	Description
1937	1”=500’	The Subject Property appears to be used as agricultural land. A drainage creek appears extending from the west adjoining property to the south central portion of the Subject Property, then turning southward to transect through the south adjoining property. West Waters Road borders the Subject Property to the north; no other roads border the Subject Property.
1940	1”=500’	
1949	1”=500’	
1955	1”=500’	Trees are visible along the western edge of the Subject Property. However, the Subject Property remains mostly used as agricultural land. The drainage creek and West Waters Road remain unchanged.
1961	1”=500’	
1969	1”=500’	The Subject Property remains mostly used as agricultural land, with trees along the western edge. An outbuilding appears on the southwestern corner. The drainage creek and West Waters Road appear unchanged.
1973	1”=500’	The central portion of the Subject Property appears to be used as agricultural land, but the remaining portions appear to be covered with grass and scattered trees. A patch of land without vegetation is visible along the northern edge of the Subject Property. The drainage creek is not visible through the tree canopies; however, the tree coverage follows the shape of the drainage creek in previous aerial photographs. The outbuilding and West Waters Road appear unchanged.
1978	1”=500’	
1983	1”=500’	
1987	1”=500’	The outbuilding is not visible, and the Subject Property appears covered by bare soils and trees. The drainage creek is not visible through the tree canopies; however, the tree coverage follows the shape of the drainage creek in previous aerial photographs. West Waters Road appears unchanged.
1992	1”=500’	The Subject Property appears mostly covered by grass, with the draining creek visible. The Subject Property is bordered to the north by West Waters Road and to the east by Oak Valley Drive.
2006	1”=500’	The Subject Property remains covered by grass and trees. The drainage creek is not visible through the tree canopies; however, the tree coverage follows the shape of the drainage creek in previous aerial photographs. The Subject Property is bordered to the north by West Waters Road and to the east by Oak Valley Drive.
2009	1”=500’	
2012	1”=500’	
2016	1”=500’	

5.4.3 Street Directories

ECT obtained a City Directory Image Report for the Subject Property and its vicinity from EDR. The Subject Property currently does not have an address. EDR indicated that the Subject Property was located on Crest Street; however, ECT was unable to conclude the location of Crest Street. Street directories for Crest Street were available for years 1992, 1995, 2000, 2005, 2010, and 2014. Street directories for West Waters Road were available for years 1992 and 1995; street directories for Waters Road were available for years 2000, 2005, 2010, and 2014. The street directories indicated that the properties along Crest Street and West Waters Road were predominantly privately owned. A copy of the City Directory Image Report is provided as **Appendix D**.

5.4.4 Fire Insurance Maps

ECT obtained available Sanborn Fire Insurance Maps for the Subject Property and its vicinity from EDR. A copy of the Certified Sanborn Map Report is provided as **Appendix E**. The Subject Property and surrounding area were described as an unmapped region.

5.5 Historical Use Information on Adjoining Properties

To evaluate the historical use of the adjacent properties, ECT reviewed readily available topographic maps, aerial photographs, and fire insurance maps.

5.5.1 Topographic Maps

ECT obtained available historical topographic maps of the Subject Property and vicinity from EDR. Copies of the available historic topographic maps are provided as **Appendix B**. A summary of the maps obtained from EDR for the Subject Property is included in Table 1-4 below:

Table 1-4. Summary of Topographic Maps (Adjoining Properties)

Year	Quadrangle Map	Series	Description
1904	Ann Arbor	30-minute	The adjoining properties appear undeveloped, except for a single structure on the southeastern corner of the south adjoining property. A creek is visible extending from the west adjoining property through the east adjoining property.
1906	Saline	30-minute	
	South Lyon	30-minute	
	Ypsilanti	30-minute	
	Dexter	30-minute	
1908	Ann Arbor	30-minute	
1965	Ann Arbor East	7.5-minute	Opposite of West Waters Road, the north adjoining property remains undeveloped. Development features appear on the remaining adjoining properties: three single structures appear on the east adjoining property, two single structures are depicted on the southeastern corner of the south adjoining property, and a single structure is depicted on the west adjoining property. The creek is only illustrated on the east adjoining property.
	Ann Arbor West	7.5-minute	
1967	Saline	7.5-minute	
	Ypsilanti West	7.5-minute	
1973	Ann Arbor East	7.5-minute	
	Ypsilanti West	7.5-minute	
1975	Saline	7.5-minute	
	Ann Arbor West	7.5-minute	
1983	Saline	7.5-minute	
	Ann Arbor East	7.5-minute	
	Ypsilanti West	7.5-minute	
	Ann Arbor West	7.5-minute	
2014	Saline	7.5-minute	Development features are not represented, and the creek is not illustrated.
	Ann Arbor East	7.5-minute	
	Ypsilanti West	7.5-minute	
	Ann Arbor West	7.5-minute	

5.5.2 Aerial Photographs

ECT obtained historical aerial photographs of the Subject Property and vicinity from EDR. A review of historical aerial photographs documents changes that have occurred in land uses and features located at the Subject Property and on adjoining properties. Copies of the historical aerial photographs are provided in **Appendix C**. Descriptions of the adjoining properties, as shown on the aerial photographs, are summarized in Table 1-5 below.

Table 1-5. Aerial Photographs (Adjoining Properties)

Year	Scale	Description
1937	1”=500’	West Waters Road is visible. All adjoining properties appear to be used as agricultural land with scattered trees and drainage creeks. A residential dwelling with several outbuildings are visible on the southeastern corner of the south adjoining property.
1940	1”=500’	
1949	1”=500’	
1955	1”=500’	
1961	1”=500’	West Waters Road remains visible. Three residential dwellings appear on the east adjoining property, and a residential dwelling with several outbuildings appear on the west adjoining property. The north and south adjoining properties remain unchanged.
1969	1”=500’	
1973	1”=500’	West Waters Road remains visible. The southern edge of the south adjoining property is covered by trees; the residential dwelling and outbuildings are barely distinguishable through the tree canopies. The remaining adjoining properties appear unchanged.
1978	1”=500’	
1983	1”=500’	
1987	1”=500’	
1992	1”=500’	West Waters Road and Oak Valley Drive are visible. Opposite of Oak Valley Drive, a commercial structure with a parking lot appears on the east adjoining property. The remaining adjoining properties appear unchanged.
2006	1”=500’	West Waters Road and Oak Valley Drive are visible. Opposite of West Waters Road, a pond appears on the north adjoining property. A residential neighborhood is observed further north. The south adjoining property appears predominantly covered by grass with tress along the parameter; a residential dwelling and several outbuildings are observed on the southeastern corner. The east and west adjoining properties appear unchanged.
2009	1”=500’	
2012	1”=500’	
2016	1”=500’	

5.5.3 Street Directories

ECT obtained a City Directory Image Report for the Subject Property and its vicinity from EDR. Street directories for Crest Street were available for years 1992, 1995, 2000, 2005, 2010, and 2014. Street directories for West Waters Road were available for years 1992 and 1995; street directories for Waters Road were available for years 2000, 2005, 2010, and 2014. The street directories indicated that the properties along Crest Street and West Waters Road were predominantly privately owned. Commercial occupants along West Waters Road included Target, McDonalds, and a landscape architect firm. A copy of the City Directory Image Report is provided as **Appendix D**.

5.5.4 Fire Insurance Maps

ECT obtained available Sanborn Fire Insurance Maps for the Subject Property and its vicinity from EDR. A copy of the Certified Sanborn Map Report is provided as **Appendix E**. The Subject Property and surrounding area were described as an unmapped region.

5.6 Previous Investigations and Government Records

Previous investigations were not provided to ECT. A Freedom of Information Act (FOIA) request for the Subject Property was submitted to the Redevelopment and Remediation Division of the Michigan Department of Environmental Quality (MDEQ) on July 25, 2018. A response was received on July 31, 2018 indicating there are no records with regard to the Subject Property.

6.0 Site Reconnaissance

On July 23, 2018, Mr. John D'Addona performed a site reconnaissance of the Subject Property to observe general site conditions and indications of the possible release(s) of chemicals to the subsurface. A walkover site inspection was conducted to identify visible evidence of any RECs. Photographs taken during ECT's site inspection are included in **Appendix F**.

Ms. Maura Gibbons of ECT prepared this Phase I ESA report documenting ECT's observations and documentation review. Mr. Dirk Mammen provided the final technical review of this report. Qualifications for Mr. D'Addona, Ms. Gibbons, and Mr. Mammen are included in **Appendix G.**

6.1 Methodology and Limiting Conditions

ECT was provided full access to the Subject Property. A site perimeter walk was conducted of the Subject Property and adjoining properties were viewed from all public right of ways.

6.2 General Site Setting

6.2.1 Current Use(s) of the Property

At the time of the site reconnaissance, the Subject Property was undeveloped, covered by grass and densely vegetated woodland. Overhead utility lines transected through the south central portion of the Subject Property, and a drain was observed in the vegetated areas throughout the southern portion of the Subject Property. A Site and Surrounding Properties Map is provided in **Figure 2.**

6.2.2 Past Use(s) of the Property

No observations were seen to indicate the past uses of the Subject Property.

6.2.3 Current Uses of Adjoining Properties

The Subject Property is bordered to the north by West Waters Road and to the east by Oak Valley Drive. Opposite of West Waters Road, residential properties are observed in the north direction. Opposite of Oak Valley Drive, the east adjoining property is commercially developed and occupied by a mixed retail structure, including restaurants, salons, and a grocery store. The Subject Property is bordered to the south by undeveloped land; a residential dwelling is observed further south. A residential property, occupied by a dwelling, a garage, and a shed, borders the Subject Property to the west.

6.2.4 Past Uses of Adjoining Properties

No observations were seen to indicate the past uses of the adjoining properties.

6.2.5 Current or Past Uses in the Surrounding Area

The surrounding area is a mixture of residential and commercial properties. No observations were seen indicative of the past uses of the adjoining properties.

6.2.6 Geologic and Hydrogeologic Conditions

According to the map of Quaternary Geology of Southern Michigan, prepared by the University of Michigan's Department of Geological Science (dated 1982), the Subject Property is situated on glacial outwash sand and gravel and postglacial alluvium, with "*pale brown to pale reddish brown, fine to coarse sand alternating with layers of small gravel to heaving cobbles, mixed lithology of sedimentary, igneous, and metamorphic rocks, well- to poorly-sorted, well-stratified, in places crossbedded. Occurs as fluvial terraces along present and abandoned drainageways, as fans and sheets flanking end moraines, and as deltas along glacial lake margins. Includes narrow belts of Holocene alluvium inset below outwash terraces alongside present streams, but too limited to map separately. Thickness 1-20m.*"

The EDR-Radius Map report stated that the Subject Property is underlain by bedrock of the Paleozoic Era, Mississippian System, and Osagean and Kinderhookian Series. The dominant soil composition in the general vicinity of the Subject Property is Blount loam. It has a loam soil surface texture and slow infiltration rates. Soil does not meet the requirements for a hydric soil.

6.3 Observations

The following items were searched for, or identification was attempted, as indicated in the ASTM standard.

6.3.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses

A search for petroleum product containers was completed during the site visit. No hazardous substances or petroleum product storage containers were noted.

6.3.2 Storage Tanks

A search for ASTs, USTs or vent pipes, fill pipes, or access ways indicating the presence of USTs was completed during the site reconnaissance. No ASTs, USTs, or evidence of USTs were observed on the Subject Property during the site reconnaissance.

6.3.3 Odors

The Subject Property was checked for strong, pungent, or noxious odors and their sources during the site visit. No odors were observed on the Subject Property at the time of the site reconnaissance.

6.3.4 Pools of Liquid

A search for standing surface water and pools or sumps containing liquids likely to contain petroleum products or hazardous substances was completed during the site visit. No pools of standing water were observed on the Subject Property at the time of the site reconnaissance.

6.3.5 Drums

Storage drums were looked for during the site visit. No drums were observed onsite.

6.3.6 Hazardous Substance and Petroleum Products Containers (not necessarily on connection with identified uses)

A search for petroleum products containers was completed during the site visit. No petroleum product or hazardous substance containers were noted.

6.3.7 Unidentified Substance Containers

A search for open or damaged containers containing unidentified substances suspected of being hazardous substances or petroleum products was completed during the site visit. No containers containing unidentified substances suspected of being hazardous substance or petroleum products were observed on the Subject Property at the time of the site reconnaissance.

6.3.8 PCBs

A search for electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs was completed during the site visit. No PCB containing equipment was observed on the Subject Property at the time of the sire reconnaissance.

6.3.9 Pits, Ponds, or Lagoons

A search for pits, ponds, or lagoons on the Subject Property and adjoining properties was completed during the site visit. Pits, ponds, or lagoons on properties adjoining the Subject Property were looked for to the extent they were visually and/or physically observable from the Subject Property. No pits, ponds or lagoons were observed on the Subject Property. Aerial photographs indicate a pond on the north adjoining property, opposite of West Waters Road. However, the pond was not observed during the site reconnaissance.

6.3.10 Stained Soil

Areas of stained soil were searched for during the site visit. No significant areas of stained soil were observed.

6.3.11 Stressed Vegetation

Areas of stressed vegetation (from other than insufficient water) were looked for during the site visit. No areas of stressed vegetation were observed.

6.3.12 Solid Waste

A search for areas that are apparently filled or graded by non-natural causes (or filled by unknown material) suggesting trash construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal was completed during the site visit. A small debris pile, containing a mattress, clothing material, and concrete blocks were observed within the dense vegetation in the southern portion of the Subject Property during the site reconnaissance. The debris pile is considered minimal and does not pose an environmental risk.

Additionally, the elevation of the Subject Property is raised about three feet higher than the adjoining sidewalk along the northern edge, indicating the presence of filled material on the Subject Property.

6.3.13 Wastewater

A search for wastewater or other liquids (including storm water) or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the Subject Property was completed during the site

visit. At the time of the site reconnaissance, a drain was observed in the dense vegetation throughout the southern portion of the Subject Property. The drain was observed extending west to the south central portion of the Subject Property, then turning southward. No other wastewater or liquids were observed discharging into drains, ditches, underground injection systems, or streams on or adjoining the Subject Property.

6.3.14 Wells

Wells, including dry wells, irrigation wells, injection wells, monitoring wells, abandoned wells, or other wells, were looked for during the site visit. No wells were observed on the Subject Property during the site reconnaissance.

6.3.15 Septic Systems

Indications of onsite septic systems or cesspools were searched for during the site visit. No septic system tank was observed on the Subject Property.

6.4 Interviews with Site Contacts

Details of the User Questionnaire are included in Section 4.0, User Provided Information.

Mr. Pascoe indicated that the Subject Property has had no prior development. Mr. Pascoe indicated he was unaware of any spills, releases, cleanups, or environmental based litigation associated with the Subject Property.

No other relevant site contacts were identified or available to interview.

6.5 Interviews with Local Governmental Officials

No local government officials were contacted regarding this investigation.

7.0 Findings, Opinions and Conclusions

ECT has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 and the 30 CFR 312 (All Appropriate Inquiry) of the undeveloped parcel situated on the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Charter Township, Washtenaw County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report. ECT has performed this Phase I ESA in conformance with the scope and limitations of ASTM Standard E 1527-13. This assessment has identified one (1) REC, no HRECs, and no CRECs in connection with the Subject Property. The following summary provides a description of the known or suspect RECs, historical RECs, controlled RECs, and *de minimis* conditions that were discovered during the Phase I ESA investigation.

7.1 RECs

One (1) REC was identified on the Subject Property. A geotechnical survey conducted on the Subject Property indicated that the site has been filled with compacted sand and occasional broken brick and concrete. There were no records available that provided information as to when the site was filled, the origin of the fill material, or if the fill material has been characterized for potential contaminants.

7.2 Historical RECs

No HRECs were identified on the Subject Property.

7.3 Controlled RECs

No CRECs were identified on the Subject Property.

7.4 *De Minimis Conditions*

One *de minimis* environmental condition was identified on the Subject Property.

- The Subject Property has been historically used as agricultural land with the potential of historical pesticide, herbicide, and fertilizer use as early as 1937 until approximately the late 1980's. However, there was no indication of improper applications or excessive use of the materials, and no evidence of stained soil or stressed vegetation.

7.5 Opinion

Based on these findings, ECT believes that an additional site investigation in the form of subsurface soil sampling activities at the Subject Property is warranted.

7.6 Conclusion

ECT performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Subject Property, an undeveloped parcel situated on the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Charter Township, Washtenaw County, Michigan. One (1) REC was identified during this Phase I ESA. ECT believes that an additional site investigation in the form of subsurface sampling activities at the Subject Property is warranted.

8.0 Deviations and Significant Data Gaps

The following deviations or "significant" data gaps, as defined by §312.10 of AAI final rule and §12.7 of ASTM E1527-13 that have been identified within this Phase I ESA are as follows:

- The All Appropriate Inquiry standard and ASTM practice indicates that the Tribal equivalent of the CERCLIS, Solid Waste Facilities/Landfill (SWF/LF), Institutional Control/Engineering Controls, Voluntary Cleanup, and Brownfield databases be searched. It is the understanding of ECT that these databases are not available for the State of Michigan. The impact of this deviation is considered negligible with regard to identifying RECs on the Subject Property.

- The uses of the Subject Property prior to 1904 were not identified.

- The dense vegetation in the woodland areas made it difficult to collect visual observations and photos.

ECT was able to determine the historical usage of the Subject Property from the information source available for review. Sufficient information was available to warrant a subsequent Phase II evaluation.

Photographs of the site conditions are included in **Appendix F**. No other deviations or "significant" data gaps were identified in this Phase I ESA.

9.0 Additional Services

The following additional services were not provided as part of this Phase I ESA:

- Asbestos containing materials assessment
- Lead-based paint survey
- Lead assessment in drinking water
- Radon assessment
- Wetlands determination
- Regulatory compliance analysis
- Inventory of cultural and historic resources
- Assessment of ecological resources
- Biological agents inventory
- Industrial hygiene assessment
- Endangered species assessment
- Health and safety assessment
- Mold assessment
- Indoor air quality characterization

10.0 References

ASTM Standard E 1527-13, "Specification Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM International, West Conshohocken, PA, 2013, 10.1520/E1527-13, www.astm.org.

Quaternary Geology of Southern Michigan, Michigan Department of Natural Resources, Geological Survey Division, 1982.

Environmental Data Resources, Inc., (EDR), EDR-Radius Map™ Report with GeoCheck®: Inquiry No. 5369404.2s, July 23, 2018.

EDR, The EDR Aerial Photo Decade Package: Inquiry No. 5369404.8, July 24, 2018.

EDR, The EDR Historical Topographic Map Report: Inquiry No. 5369404.4, July 23, 2018.

EDR, The EDR Sanborn Map Report: Inquiry No. 5369404.3, July 23, 2018.

EDR, The EDR City Directory Image Report: Inquiry No. 5369404.5, July 25, 2018.

Mich. Comp. Laws § 324.20126 (1994).
42 U.S.C. 9607(b)(3)
40 CFR § 312.

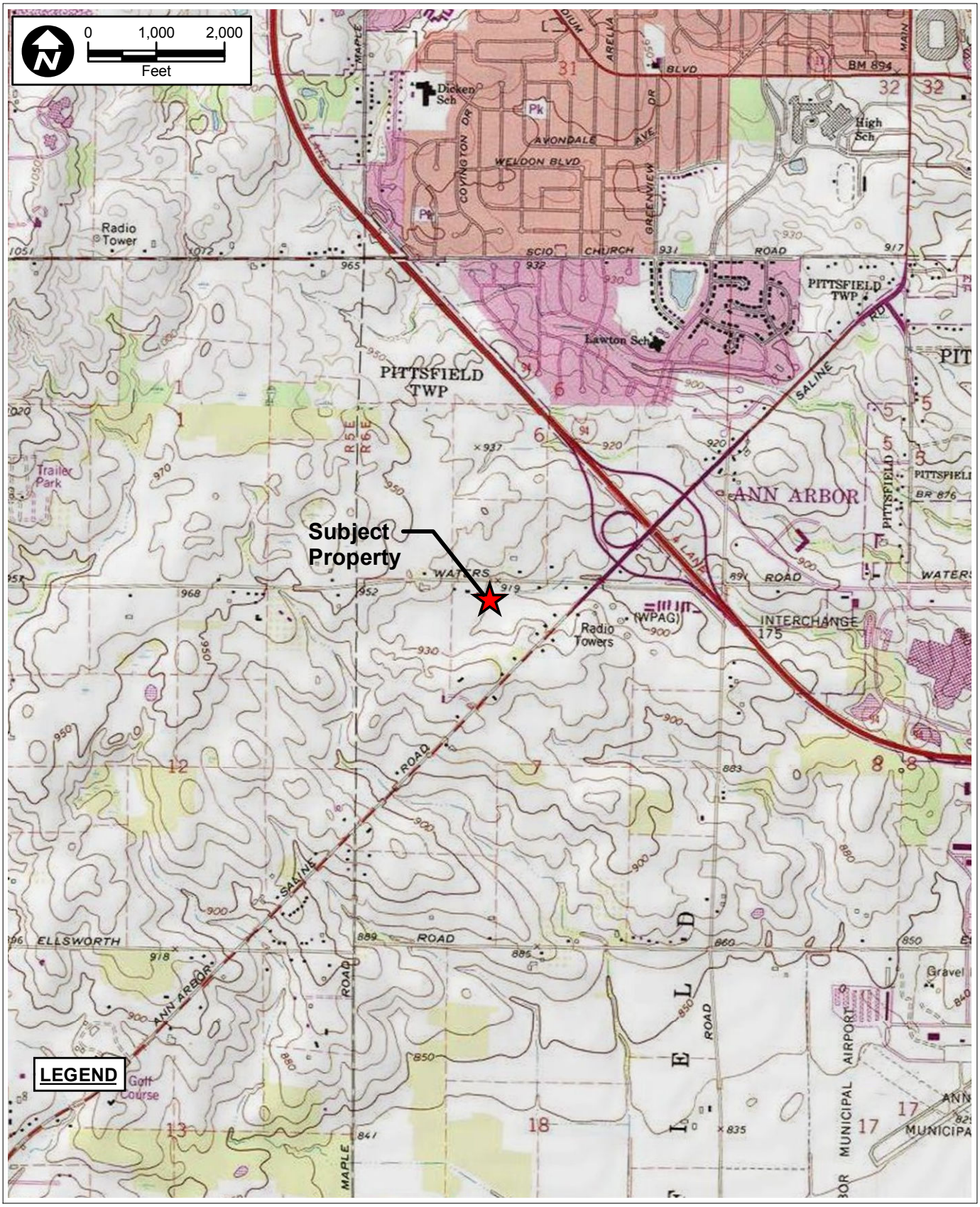

FIGURE 1.
SITE LOCATION MAP
WATERS ROAD/OAK VALLEY DRIVE PROPERTY
PITTSFIELD TOWNSHIP, MI. 48108

Sources: ECT, 2018.

ECT Environmental Consulting & Technology, Inc.

P:\Pittsfield Township\Oak Valley Property\Phase I ESA\GIS\Pittsfield_Site_Surr.mxd

rhiguchi 7/25/2018 1:15:46 PM

FIGURE 2.
SITE AND SURROUNDING PROPERTIES MAP
WATERS ROAD/OAK VALLEY DRIVE PROPERTY
PITTSFIELD TOWNSHIP, MI. 48108

Sources: ECT, 2018.

ECT Environmental Consulting & Technology, Inc.

Crest Street Property
CREST ST
Ann Arbor, MI 48103

Inquiry Number: 5369404.2s
July 23, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), 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

CREST ST
ANN ARBOR, MI 48103

COORDINATES

Latitude (North):	42.2424710 - 42˚ 14' 32.89''
Longitude (West):	83.7719150 - 83˚ 46' 18.89''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	271295.1
UTM Y (Meters):	4680205.0
Elevation:	917 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6066328 SALINE, MI
Version Date:	2014
Northwest Map:	6066248 ANN ARBOR WEST, MI
Version Date:	2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140705
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
CREST ST
ANN ARBOR, MI 48103

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	VILLAGE CENTRE CLEAN	3139 OAK VALLEY DR	EDR Hist Cleaner	Lower	371, 0.070, SE
A2	BITECH INC OF NORTH	3059 OAK VALLEY DR	RCRA-CESQG	Lower	381, 0.072, SE
B3	TARGET CORPORATION	2000 WATERS RD	RCRA-LQG	Lower	760, 0.144, ENE
B4	WOODWARD DETROIT CVS	2000 WATERS RD	RCRA-CESQG, FINDS, ECHO	Lower	760, 0.144, ENE
B5	TARGET # 0634	2000 WATERS RD	PA MANIFEST	Lower	760, 0.144, ENE
C6	MEIJERS - ANN ARBOR	3145 SALINE	MI AST	Higher	1016, 0.192, ESE
C7	MEIJER INC	3145 ANN ARBOR SALIN	RCRA-SQG, FINDS, ECHO	Higher	1072, 0.203, ESE
D8	GAS STATION #64	3000 LOHR RD	MI AUL, MI INVENTORY, MI Financial Assurance	Higher	1754, 0.332, ESE
D9	GAS STATION #64	3000 LOHR RD	MI LUST, MI UST, MI WDS	Higher	1754, 0.332, ESE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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 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

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

EXECUTIVE SUMMARY

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

MI 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

MI 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

MI HIST LF..... Inactive Solid Waste Facilities
MI 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
MI PART 201..... Part 201 Site List
MI CDL..... Clandestine Drug Lab Listing
MI DEL PART 201..... Delisted List of Contaminated Sites
US CDL..... National Clandestine Laboratory Register

Local Land Records

MI LIENS..... Lien List
LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
MI 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
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
MI AIRS	Permit and Emissions Inventory Data
MI ASBESTOS	ASBESTOS
MI BEA	Baseline Environmental Assessment Database
MI COAL ASH	Coal Ash Disposal Sites
MI DRYCLEANERS	Drycleaning Establishments
MI LEAD	Lead Safe Housing Registry
MI NPDES	List of Active NPDES Permits
MI 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

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

MI RGA PART 201 ---------- Recovered Government Archive State Hazardous Waste Facilities List
MI RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
MI 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-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TARGET CORPORATION	2000 WATERS RD	ENE 1/8 - 1/4 (0.144 mi.)	B3	10

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEIJER INC	***3145 ANN ARBOR SALIN***	***ESE 1/8 - 1/4 (0.203 mi.)***	***C7***	***25***

EXECUTIVE SUMMARY

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 03/01/2018 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BITECH INC OF NORTH	3059 OAK VALLEY DR	SE 0 - 1/8 (0.072 mi.)	A2	8
WOODWARD DETROIT CVS	***2000 WATERS RD***	***ENE 1/8 - 1/4 (0.144 mi.)***	***B4***	***22***

State and tribal leaking storage tank lists

MI 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 MI LUST list, as provided by EDR, and dated 05/03/2018 has revealed that there is 1 MI LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAS STATION #64 Release Status: Closed Substance Release: Gasoline Facility Id: 00038274	***3000 LOHR RD***	***ESE 1/4 - 1/2 (0.332 mi.)***	***D9***	***31***

State and tribal registered storage tank lists

MI 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 MI AST list, as provided by EDR, and dated 02/08/2018 has revealed that there is 1 MI AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEIJERS - ANN ARBOR Facility Id: 93084002 Tank Status: Currently In Use	3145 SALINE	ESE 1/8 - 1/4 (0.192 mi.)	C6	25

State and tribal institutional control / engineering control registries

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

A review of the MI AUL list, as provided by EDR, and dated 05/25/2018 has revealed that there is 1 MI

AUL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAS STATION #64 Facility ID: 00038274	***3000 LOHR RD***	***ESE 1/4 - 1/2 (0.332 mi.)***	***D8***	***29***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

MI 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 MI INVENTORY list, as provided by EDR, and dated 04/23/2018 has revealed that there is 1 MI INVENTORY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAS STATION #64 Facility ID: 00038274	***3000 LOHR RD***	***ESE 1/4 - 1/2 (0.332 mi.)***	***D8***	***29***

Other Ascertainable Records

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 12/31/2016 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TARGET # 0634 Generator EPA Id: MIK892983685	2000 WATERS RD	ENE 1/8 - 1/4 (0.144 mi.)	B5	24

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: 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.

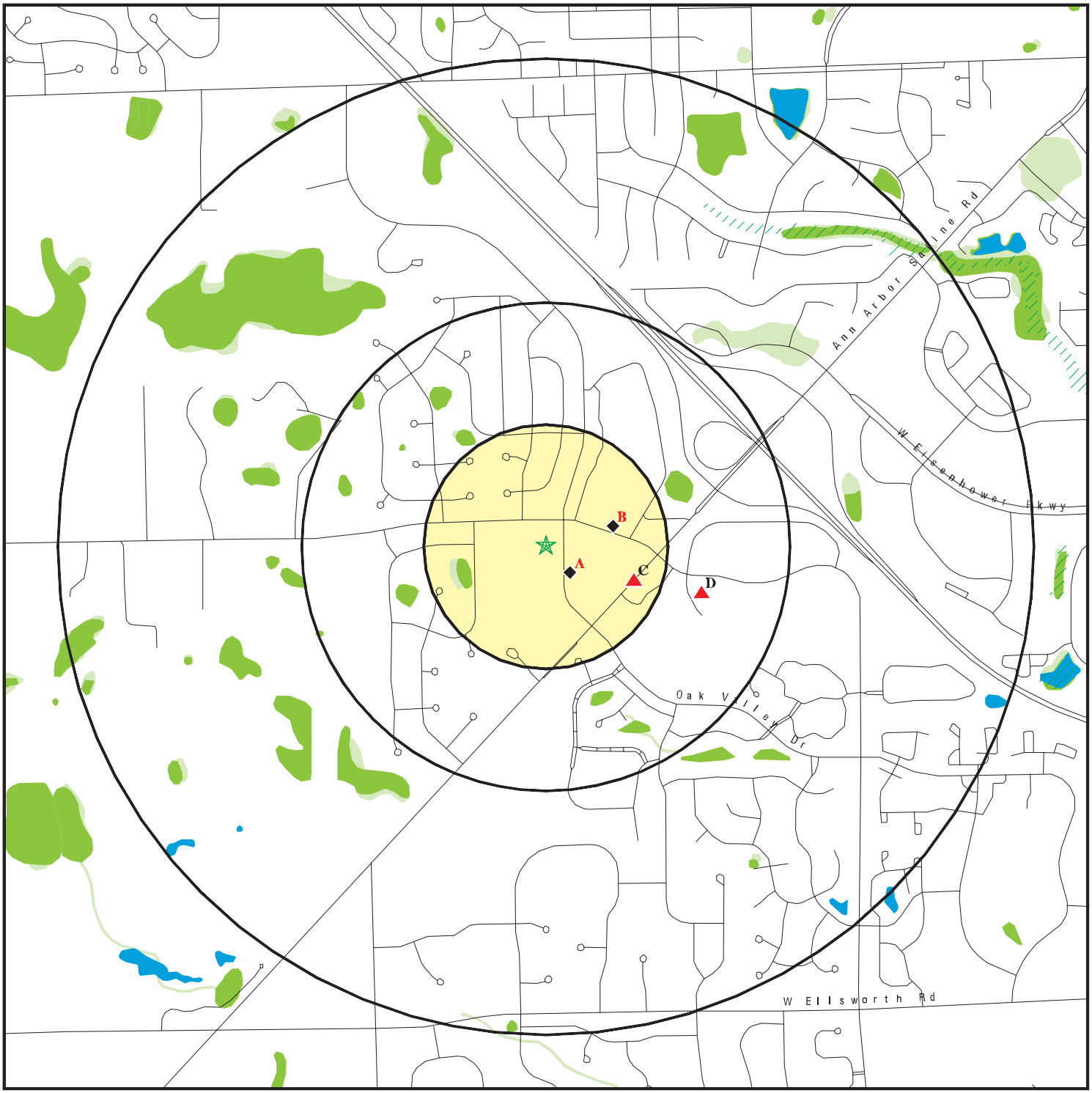
A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VILLAGE CENTRE CLEAN	3139 OAK VALLEY DR	SE 0 - 1/8 (0.070 mi.)	A1	8

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5369404.2S



- 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

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- 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: Crest Street Property	CLIENT: ECT
ADDRESS: CREST ST Ann Arbor MI 48103	CONTACT: Ryan Higuchi INQUIRY #: 5369404.2s
LAT/LONG: 42.242471 / 83.771915	DATE: July 23, 2018 3:21 pm

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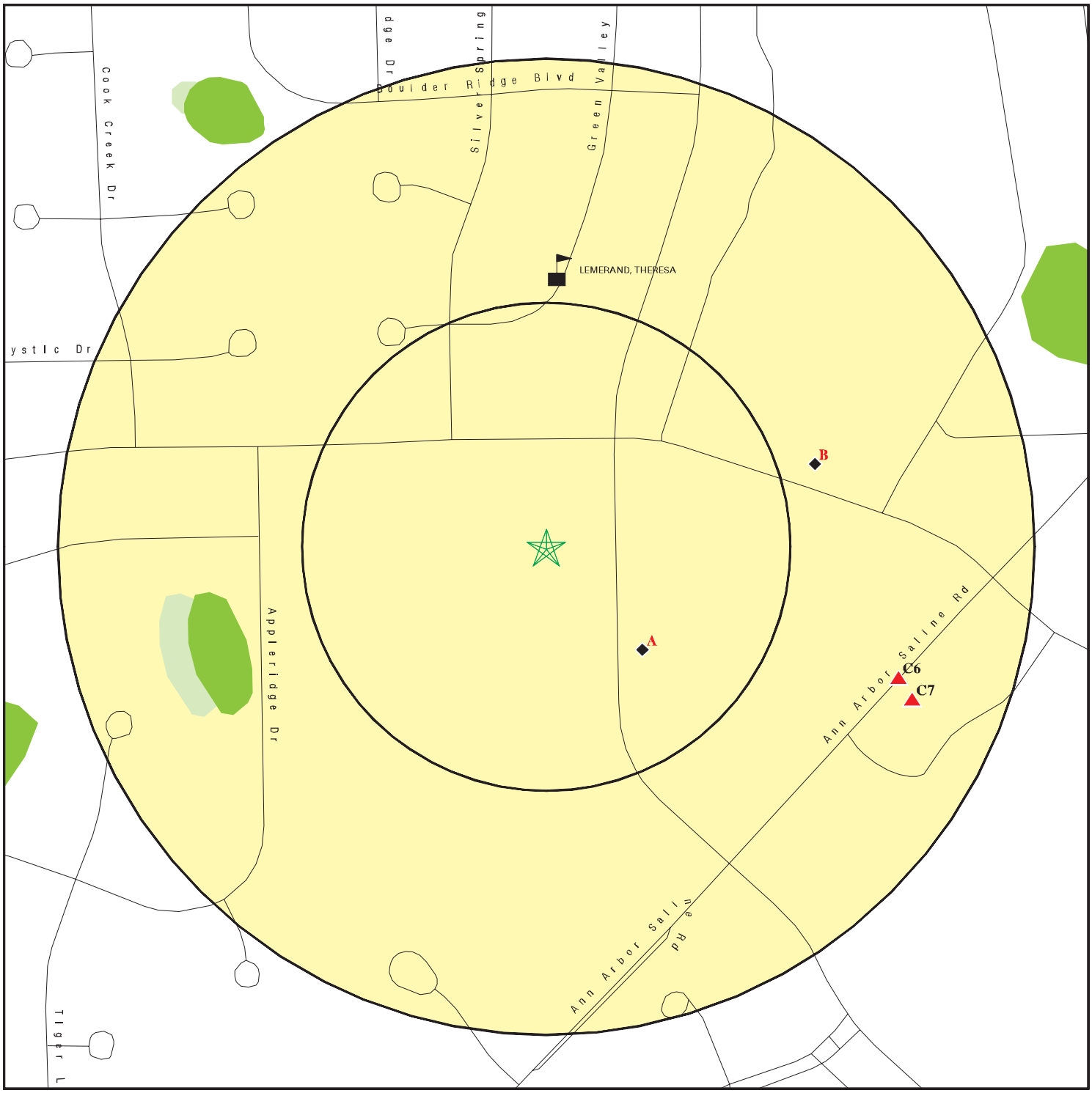
DETAIL MAP - 5369404.2S



- 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

0 1/16 1/8 1/4 Miles

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

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

SITE NAME: Crest Street Property	CLIENT: ECT
ADDRESS: CREST ST Ann Arbor MI 48103	CONTACT: Ryan Higuchi INQUIRY #: 5369404.2s
LAT/LONG: 42.242471 / 83.771915	DATE: July 23, 2018 3:24 pm

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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
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
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
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		1	1	NR	NR	NR	2
Federal institutional controls / engineering controls registries								
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
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
MI SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
MI SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
MI LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
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
MI UST	0.250		0	0	NR	NR	NR	0
MI AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
MI AUL	0.500		0	0	1	NR	NR	1
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
MI BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
MI HIST LF	0.500		0	0	0	NR	NR	0
MI 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
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
MI PART 201	1.000		0	0	0	0	NR	0
MI INVENTORY	0.500		0	0	1	NR	NR	1
MI CDL	TP		NR	NR	NR	NR	NR	0
MI DEL PART 201	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
MI LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
MI SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
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
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	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
MI AIRS	TP		NR	NR	NR	NR	NR	0
MI ASBESTOS	TP		NR	NR	NR	NR	NR	0
MI BEA	0.500		0	0	0	NR	NR	0
MI COAL ASH	0.500		0	0	0	NR	NR	0
MI DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MI Financial Assurance	TP		NR	NR	NR	NR	NR	0
MI LEAD	TP		NR	NR	NR	NR	NR	0
PA MANIFEST	0.250		0	1	NR	NR	NR	1
MI NPDES	TP		NR	NR	NR	NR	NR	0
MI UIC	TP		NR	NR	NR	NR	NR	0
MI WDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK 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

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
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
MI RGA PART 201	TP		NR	NR	NR	NR	NR	0
MI RGA LF	TP		NR	NR	NR	NR	NR	0
MI RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	2	5	3	0	0	10

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
SE
< 1/8
0.070 mi.
371 ft.

VILLAGE CENTRE CLEANERS
3139 OAK VALLEY DR
ANN ARBOR, MI 48103

EDR Hist Cleaner **1020114450**
N/A

Site 1 of 2 in cluster A

Relative:
Lower

Actual:
915 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1999	VILLAGE CENTRE CLEANERS	Drycleaning Plants, Except Rugs

A2
SE
< 1/8
0.072 mi.
381 ft.

BITECH INC OF NORTH CAROLINA
3059 OAK VALLEY DR
ANN ARBOR, MI 48103

RCRA-CESQG **1014925063**
MIK708444744

Site 2 of 2 in cluster A

Relative:
Lower

Actual:
915 ft.

RCRA-CESQG:

Date form received by agency:	04/27/2011
Facility name:	BITECH INC OF NORTH CAROLINA
Facility address:	3059 OAK VALLEY DR ANN ARBOR, MI 48103
EPA ID:	MIK708444744
Mailing address:	1 PERFORMANCE WAY CHAPEL HILL, NC 27517
Contact:	GWEN JOHNSON
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	734-769-0955
Contact email:	MARYTANNER@PERFORMANCEINC.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:	BILL PETERSON
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

BITECH INC OF NORTH CAROLINA (Continued) **1014925063**

Owner/Op start date:	04/15/2011
Owner/Op end date:	Not reported
Owner/operator name:	BARB MAGNUSON
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:	04/15/2011
Owner/Op end date:	Not reported
Owner/operator name:	BILL PETERSON
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:	04/15/2011
Owner/Op end date:	Not reported
Owner/operator name:	BARB MAGNUSON
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:	04/15/2011
Owner/Op end date:	Not reported

Handler Activities Summary:

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

BITECH INC OF NORTH CAROLINA (Continued) **1014925063**

Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

B3
ENE
1/8-1/4
0.144 mi.
760 ft.

TARGET CORPORATION **RCRA-LQG** **1009312183**
2000 WATERS RD **MIK892983685**
ANN ARBOR, MI 48103

Site 1 of 3 in cluster B

Relative:
Lower

Actual:
912 ft.

RCRA-LQG:

Date form received by agency:	04/14/2017
Facility name:	TARGET CORPORATION
Facility address:	2000 WATERS RD ANN ARBOR, MI 48103
EPA ID:	MIK892983685
Mailing address:	PO BOX 111 MINNEAPOLIS, MN 55440
Contact:	STEVE MUSSER
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	800-587-2228
Contact email:	POC@TARGET.COM
EPA Region:	05
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	TARGET CORPORATION
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

TARGET CORPORATION (Continued) **1009312183**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/14/1990
Owner/Op end date: Not reported

Owner/operator name: TARGET CORPORATION
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: 10/14/1990
Owner/Op end date: Not reported

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

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Historical Generators:
Date form received by agency: 05/05/2016
Site name: TARGET CORPORATION
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

TARGET CORPORATION (Continued) **1009312183**

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 02/26/2016
Site name: TARGET STORE T0634
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

TARGET CORPORATION (Continued) **1009312183**

. Waste code: D026
. Waste name: CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: P081
. Waste name: NITROGLYCERINE (R)

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U058
. Waste name: CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U150
. Waste name: MELPHALAN

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE

. Waste code: U201

TARGET CORPORATION (Continued) **1009312183**

. Waste name: 1,3-BENZENEDIOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Date form received by agency: 07/29/2014
Site name: TARGET CORPORATION
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 02/28/2014
Site name: TARGET STORE T0634
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007

TARGET CORPORATION (Continued) **1009312183**

. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: P081
. Waste name: NITROGLYCERINE (R)

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-

. Waste code: U044
. Waste name: CHLOROFORM

TARGET CORPORATION (Continued) **1009312183**

. Waste code: U058
. Waste name: CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U150
. Waste name: MELPHALAN

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

. Waste code: 029U
. Waste name: 029U

. Waste code: 051U
. Waste name: 051U

. Waste code: 079U
. Waste name: 079U

Date form received by agency: 05/21/2013
Site name: TARGET CORPORATION
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 10/05/2012
Site name: TARGET CORPORATION
Classification: Small Quantity Generator

TARGET CORPORATION (Continued) **1009312183**

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 03/22/2012
Site name: TARGET CORPORATION
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3

. Waste code: P022

TARGET CORPORATION (Continued) **1009312183**

. Waste name: CARBON DISULFIDE

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: P108
. Waste name: STRYCHNIDIN-10-ONE, & SALTS

. Waste code: P188
. Waste name: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-

. Waste code: U002
. Waste name: ACETONE (I)

Date form received by agency: 03/22/2012
Site name: TARGET CORPORATION
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 1580

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 1361

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 20

Waste code: D005

TARGET CORPORATION (Continued) **1009312183**

Waste name: BARIUM
Amount (Lbs): 1060

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 298

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 1060

Waste code: D008
Waste name: LEAD
Amount (Lbs): 942

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 77

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 20

Waste code: D011
Waste name: SILVER
Amount (Lbs): 1060

Waste code: D016
Waste name: 2,4-D
Amount (Lbs): 35

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 742

Waste code: D024
Waste name: M-CRESOL
Amount (Lbs): 20

Waste code: D026
Waste name: CRESOL
Amount (Lbs): 20

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 1257

Waste code: P001
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs): 13

Waste code: P075
Waste name: NICOTINE, & SALTS
Amount (Lbs): 13

Waste code: U002

TARGET CORPORATION (Continued) **1009312183**

Waste name: ACETONE (I)
Amount (Lbs): 742

Waste code: U154
Waste name: METHANOL (I)
Amount (Lbs): 742

Waste code: U279
Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE
Amount (Lbs): 15

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 04/07/2015
Date achieved compliance: 06/12/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/13/2015
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 04/07/2015
Date achieved compliance: 06/12/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/13/2015
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 04/07/2015
Date achieved compliance: 06/12/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/13/2015
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting

TARGET CORPORATION (Continued) **1009312183**

Date violation determined: 04/07/2015
Date achieved compliance: 06/12/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/13/2015
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 04/07/2015
Date achieved compliance: 06/12/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/13/2015
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/07/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 06/12/2015
Evaluation lead agency: State

Evaluation date: 04/07/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 06/12/2015
Evaluation lead agency: State

Evaluation date: 04/07/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 06/12/2015
Evaluation lead agency: State

Evaluation date: 04/07/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 06/12/2015
Evaluation lead agency: State

Evaluation date: 04/07/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 06/12/2015
Evaluation lead agency: State

B4 **ENE** **1/8-1/4** **0.144 mi.** **760 ft.**	**WOODWARD DETROIT CVS LLC** **2000 WATERS RD** **ANN ARBOR, MI 48103** **Site 2 of 3 in cluster B**	**RCRA-CESQG** **FINDS** **ECHO**	**1018275966** **MIK157254077**

Relative:
Lower

Actual:
912 ft.

RCRA-CESQG:

Date form received by agency:	02/22/2016
Facility name:	WOODWARD DETROIT CVS LLC
Facility address:	2000 WATERS RD ANN ARBOR, MI 48103
EPA ID:	MIK157254077
Mailing address:	ONE CVS DR MAIL CODE 2340 WOONSOCKET, RI 02895
Contact:	NICOLE WILKINSON
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	401-770-1732
Contact email:	NICOLE.WILKINSON@CVSHEALTH.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:	WOODWARD DETROIT CVS LLC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/16/2015
Owner/Op end date:	Not reported

Owner/operator name:	WOODWARD DETROIT CVS LLC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported

WOODWARD DETROIT CVS LLC (Continued) **1018275966**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/16/2015
Owner/Op end date: Not reported

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

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110067417441

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

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

ECHO:
Envid: 1018275966
Registry ID: 110067417441
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110067417441

B5 ENE 1/8-1/4 0.144 mi. 760 ft. | **TARGET # 0634**
2000 WATERS RD
ANN ARBOR, MI 48103

Site 3 of 3 in cluster B

PA MANIFEST | **S118070874**
N/A

Relative: Lower

Actual: 912 ft.

Manifest Details:

Year:	2014
Manifest Number:	012997106JJK
Manifest Type:	TSD Copy
Generator EPA Id:	MIK892983685
Generator Date:	05/08/2014
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	Not reported
TSD Date:	Not reported
TSD Facility Name:	Republic Environmental Systems (Pennsylvania) LLC
TSD Facility Address:	2869 Sandstone Dr
TSD Facility City:	Hatfield
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	U034
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	3
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	PAD085690592
Date TSP Sig:	Not reported

Year:	2014
Manifest Number:	012997106JJK
Manifest Type:	TSD Copy
Generator EPA Id:	MIK892983685
Generator Date:	05/08/2014
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	Not reported
TSD Date:	Not reported
TSD Facility Name:	Republic Environmental Systems (Pennsylvania) LLC
TSD Facility Address:	2869 Sandstone Dr
TSD Facility City:	Hatfield
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	3
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	PAD085690592

TARGET # 0634 (Continued) **S118070874**

Date TSP Sig: Not reported

C6 ESE 1/8-1/4 0.192 mi. 1016 ft. **MEIJERS - ANN ARBOR SALINE ROAD** **MI AST** **A100151150**
3145 SALINE **N/A**
ANN ARBOR, MI 48103

Site 1 of 2 in cluster C

Relative: Higher
Actual: 917 ft.

AST:

Facility ID:	93084002
Facility Phone:	(313) 235-6624
Owner Name:	MEIJERS - ANN ARBOR SALINE ROAD
Owner Address:	ONE ENERGY PLAZA 655 GO
Owner City,St,Zip:	DETROIT, MI 48103
Owner County:	Not reported
Owner Contact:	James Rachwal
Owner Telephone:	3132352745
District:	1
Contact:	Michael Bell
List Status:	Not reported
Date of Collection:	Not reported
Accuracy:	15 METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Description Category:	Not reported
Method of Collection:	Interpolation-Map
Horizontal Datum:	NAD83
Latitude:	42.2394069
Longitude:	-83.766094
Tank Id:	ATK-082750-15
Tank Status:	Currently In Use
Capacity (in gallons):	17133
Installation Date:	03/11/1998
Substance Stored:	CNG
Removed/Closed Date:	Not reported
Tank Id:	ATK-138544-15
Tank Status:	Currently In Use
Capacity (in gallons):	35000
Installation Date:	08/10/2012
Substance Stored:	CNG
Removed/Closed Date:	Not reported

C7 ESE 1/8-1/4 0.203 mi. 1072 ft. **MEIJER INC** **RCRA-SQG** **1000979873**
3145 ANN ARBOR SALINE RD **FINDS** **MI0000969949**
ANN ARBOR, MI 48103 **ECHO**

Site 2 of 2 in cluster C

Relative: Higher
Actual: 918 ft.

RCRA-SQG:

Date form received by agency:	04/05/2017
Facility name:	MEIJER INC
Facility address:	3145 ANN ARBOR SALINE RD ANN ARBOR, MI 48103

MEIJER INC (Continued) **1000979873**

EPA ID:	MI0000969949
Contact:	ERIK PETROVSKIS
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	616-735-7101
Contact email:	ERIK.PETROVSKIS@MEIJER.COM
EPA Region:	05
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	MEIJER INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/14/1989
Owner/Op end date:	Not reported

Owner/operator name:	MEIJER INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/14/1989
Owner/Op end date:	Not reported

Handler Activities Summary:

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

MEIJER INC (Continued) **1000979873**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Historical Generators:
Date form received by agency: 08/17/2016
Site name: MEIJER INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 06/10/2015
Site name: MEIJER INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 08/05/2014
Site name: MEIJER INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 04/09/2013
Site name: MEIJER INC
Classification: Small Quantity Generator

MEIJER INC (Continued) **1000979873**

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 12/09/1994
Site name: MEIJER INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 05/19/2015
Date achieved compliance: 06/23/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/27/2015
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 05/19/2015
Date achieved compliance: 06/23/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/27/2015
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 05/19/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 06/23/2015

MEIJER INC (Continued) **1000979873**

Evaluation lead agency: State

Evaluation date: 05/19/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 06/23/2015
Evaluation lead agency: State

FINDS:

Registry ID: 110003570163

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

ECHO:
Envid: 1000979873
Registry ID: 110003570163
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003570163

D8 **GAS STATION #64** **MI AUL** **S113453393**
ESE **3000 LOHR RD** **MI INVENTORY** **N/A**
1/4-1/2 **ANN ARBOR, MI 48103** **MI Financial Assurance**
0.332 mi.
1754 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
920 ft.

AUL:

Status:	Rescinded
Site Name:	Not reported
Property:	on-site
Land Use Restriction Type:	RC
Program Type:	Part 213
Program Support Assigned User:	Nicholas Ekel
Program Support Assigned Date:	02/04/2014
Legal Description Of Property:	Not reported
Based On The Deq Ref #:	11121313010
MDEQ Reference Number:	RC-RRD-213-13-010
Property Or Description Restricted Area:	Not reported
Lead Division:	RRD
File Name Of Hyperlinked Legal Doc:	U:\\KERMIT\\11121313010.PDF
Mapped Polygons Area In Acres:	0.6133
Mapped Polygons Area In Square Miles:	0.0009
Date Data Entry Started:	02/12/2014
Date Data Entry Finished:	02/12/2014
Individual Or Staff Assoc With The Mapping:	Nicholas Ekel
Program Used To Map Restricted Features:	ArcGIS 10.1
Date Legal Paperwork Stamped/Filed/Register Of Deeds:	03/14/2014
Commercial I Land Use Restriction:	0
Commercial Ii Land Use Restriction:	0

GAS STATION #64 (Continued) **S113453393**

Commercial Iii Land Use Restriction:	0
Commercial Iv Land Use Restriction:	0
Industrial Land Use Restriction:	0
Residential Land Use Restriction:	1
Recreational Land Use Restriction:	0
Multiple Land-Use Restrictions:	0
Site Specific Restrictions:	1
Groundwater Consumption Restrictions:	1
Groundwater Contact Restrictions:	0
Special Well Construction Requirements:	0
Special Building Restrictions:	0
Excavation And Soil Movement Restrictions:	1
Soil Movement Requirements:	0
There Is A Restriction On All Construction:	0
Monitoring Well Protected, No Tampering Or Removal:	0
There Is An Exposure Barrier In Place:	1
There Is A Health And Safety Plan:	0
There Is A Permanent Marker On The Site:	0
Comment:	January 25, 2012 consultant requested DEQ reference #.
Map Comments:	20140104 - LRUR is NOT mapped in KERMIT - Nick Ekel 20140212 - LRUR is mapped in KERMIT - Nick Ekel 20140319 - LRUR status was updated to rescinded - Nick Ekel 20140319 - LRUR status was updated in KERMIT - Nick Ekel

Status:	Recorded
Site Name:	Not reported
Property:	on-site
Land Use Restriction Type:	RC
Program Type:	Part 213
Program Support Assigned User:	Nicholas Ekel
Program Support Assigned Date:	01/31/2014
Legal Description Of Property:	Not reported
Based On The Deq Ref #:	11121313109
MDEQ Reference Number:	RC-RRD-213-13-109
Property Or Description Restricted Area:	Not reported
Lead Division:	RD
File Name Of Hyperlinked Legal Doc:	U:\\KERMIT\\11121313109.PDF
Mapped Polygons Area In Acres:	0.6133
Mapped Polygons Area In Square Miles:	0.0009
Date Data Entry Started:	01/31/2014
Date Data Entry Finished:	01/31/2014
Individual Or Staff Assoc With The Mapping:	Nicholas Ekel
Program Used To Map Restricted Features:	ArcGIS 10.1
Date Legal Paperwork Stamped/Filed/Register Of Deeds:	11/06/2013
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:	1
Recreational Land Use Restriction:	0
Multiple Land-Use Restrictions:	0
Site Specific Restrictions:	1
Groundwater Consumption Restrictions:	0
Groundwater Contact Restrictions:	0
Special Well Construction Requirements:	0
Special Building Restrictions:	0

GAS STATION #64 (Continued) **S113453393**

Excavation And Soil Movement Restrictions:	1
Soil Movement Requirements:	0
There Is A Restriction On All Construction:	0
Monitoring Well Protected, No Tampering Or Removal:	0
There Is An Exposure Barrier In Place:	1
There Is A Health And Safety Plan:	0
There Is A Permanent Marker On The Site:	0
Comment:	July 23, 2013 consultant requested DEQ reference #. Replaces former restriction- RC-RD-213-13-010
Map Comments:	20141031 - LRUR is NOT mapped in KERMIT - Nick Ekel 20140131 - LRUR is mapped in KERMIT - Nick Ekel

INVENTORY:

Bea Number:	Not reported
Township:	Not reported
District:	Jackson
Data Source:	Part 213
Latitude:	42.24125
Longitude:	-83.76585

D9 **GAS STATION #64** **MI LUST** **U002303304**
ESE **3000 LOHR RD** **MI UST** **N/A**
1/4-1/2 **ANN ARBOR, MI 48108** **MI WDS**
0.332 mi.
1754 ft. **Site 2 of 2 in cluster D**

Relative:
Higher

Actual:
920 ft.

LUST:

Facility ID:	00038274
Source:	STATE OF MICHIGAN
Owner Name:	Meijer Inc
Owner Address:	2929 Walker Ave NW
Owner City,St,Zip:	Grand Rapids, MI 49544
Owner Contact:	Don Nunn
Owner Phone:	(616) 453-6711
Country:	USA
District:	Jackson
Site Name:	Meijer #64
Latitude:	42.24124
Longitude:	-83.76584
Date of Collection:	10/21/2003
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
Accuracy:	10
Accuracy Value Unit:	METERS
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Leak Number:	C-0207-04
Release Date:	05/27/2004
Substance Released:	Gasoline
Release Status:	Closed
Release Closed Date:	01/24/2014

UST:

Facility Type:	ACTIVE
Facility ID:	00038274
Owner Country:	Not reported
Owner Name:	MEIJER INC

GAS STATION #64 (Continued) **U002303304**

Owner Address:	2929 WALKER AVE NW
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49544
Owner Contact:	Not reported
Owner Phone:	6164536711
Contact:	Aaron Besmer
Contact Phone:	(616) 791-3540
Date of Collection:	10/21/2003
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 2 - Jackson District Office
Tank ID:	4
Capacity:	12000
Tank Status:	Currently In Use
Substance:	Other, E-85 Diesel,
Install Date:	12/01/1994
Remove Date:	Not reported
Tank Number:	UTK-041857-15
Tank Details Compartments:	Not reported
Tank Details Number of Compartments:	Not reported
Tank Release Detection Automatic Tank Gauging:	CHECKED
Tank Release Detection Groundwater Monitoring:	Not reported
Impressed Device:	Not reported
Tank Release Detection Inter Monitoring/Second Conatinment:	Not reported
Tank Release Detection Interstital Monitoring Double Walled Tank/Piping:	CHECKED
Tank Release Detection Inventory Control:	Not reported
Tank Release Detection Manual (Static) Tank Gauging:	Not reported
Tank Release Detection Other:	Not reported
Tank Release Detection Other Comment:	Not reported
Tank Release Detection Tank Tightness Testing:	Not reported
Tank Release Detection Vapor Monitoring:	Not reported
Piping Release Detection Automatic Line Leak Detectors:	Not reported
Piping Release Detection Ground Water Monitoring:	Not reported
Piping Release Detection Interstitial Monitoring Double Walled Piping:	CHECKED
Piping Release Detection Interstitial Monitoring Second Containment:	Not reported
Piping Release Detection Line Tightness Testing:	Not reported
Piping Release Detection Other:	CHECKED
Piping Release Detection Other Comment:	Not reported
Piping Release Detection Vapor Monitoring:	Not reported
Piping Material Bare Steel:	Not reported
Piping Material Cathodically Protected:	Not reported
Piping Material Copper:	Not reported
Piping Material Double Walled:	CHECKED
Piping Material Enviroflex:	Not reported
Piping Material Fiberglass Reinforced Plastic:	CHECKED
Piping Material Flexible Piping:	Not reported
Piping Material Galvanized Steel:	Not reported
Piping Material Geo Flex:	Not reported
Piping Material Other:	Not reported
Piping Material Other Comment:	Not reported
Piping Material Unknown:	Not reported

GAS STATION #64 (Continued) **U002303304**

Piping Type Gravity Fed:	Not reported
Piping Type Has Piping Been Repaired:	Not reported
Piping Type Not Marked on Form:	Not reported
Piping Type Pressure (Remote):	CHECKED
Piping Type Suction: No Valve at Tank	Not reported
Piping Type Suction: Valve at Tank	Not reported
Tank Material Asphalt Coated or Bare Steel:	Not reported
Tank Material Cathodically Protected Steel:	Not reported
Tank Material Composite (Steel With Fiberglass):	Not reported
Tank Material Concrete:	Not reported
Tank Material Double Walled:	CHECKED
Tank Material Epoxy Coated Steel:	Not reported
Tank Material Excavation Liner:	Not reported
Tank Material Fiberglass Reinforced Plastic:	CHECKED
Tank Material Has Tank Been Repaired:	Not reported
Tank Material Lined Interior:	Not reported
Tank Material Other:	CHECKED
Tank Material Description of Other Construction:	Not reported
Tank Material Polyethylene Tank Jacket:	Not reported
Tank Material Unknown:	Not reported
Latitude:	42.24124
Longitude:	-83.76584

Facility Type:	ACTIVE
Facility ID:	00038274
Owner Country:	Not reported
Owner Name:	MEIJER INC
Owner Address:	2929 WALKER AVE NW
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49544
Owner Contact:	Not reported
Owner Phone:	6164536711
Contact:	Aaron Besmer
Contact Phone:	(616) 791-3540
Date of Collection:	10/21/2003
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 2 - Jackson District Office
Tank ID:	3
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Gasoline,
Install Date:	12/01/1994
Remove Date:	Not reported
Tank Number:	UTK-080285-15
Tank Details Compartments:	Not reported
Tank Details Number of Compartments:	Not reported
Tank Release Detection Automatic Tank Gauging:	CHECKED
Tank Release Detection Groundwater Monitoring:	Not reported
Impressed Device:	Not reported
Tank Release Detection Inter Monitoring/Second Conatinment:	Not reported

GAS STATION #64 (Continued) **U002303304**

Tank Release Detection Interstital Monitoring Double Walled Tank/Piping:	CHECKED
Tank Release Detection Inventory Control:	Not reported
Tank Release Detection Manual (Static) Tank Gauging:	Not reported
Tank Release Detection Other:	Not reported
Tank Release Detection Other Comment:	Not reported
Tank Release Detection Tank Tightness Testing:	Not reported
Tank Release Detection Vapor Monitoring:	Not reported
Piping Release Detection Automatic Line Leak Detectors:	Not reported
Piping Release Detection Ground Water Monitoring:	Not reported
Piping Release Detection Interstitial Monitoring Double Walled Piping:	CHECKED
Piping Release Detection Interstitial Monitoring Second Containment:	Not reported
Piping Release Detection Line Tightness Testing:	Not reported
Piping Release Detection Other:	CHECKED
Piping Release Detection Other Comment:	Not reported
Piping Release Detection Vapor Monitoring:	Not reported
Piping Material Bare Steel:	Not reported
Piping Material Cathodically Protected:	Not reported
Piping Material Copper:	Not reported
Piping Material Double Walled:	CHECKED
Piping Material Enviroflex:	Not reported
Piping Material Fiberglass Reinforced Plastic:	CHECKED
Piping Material Flexible Piping:	Not reported
Piping Material Galvanized Steel:	Not reported
Piping Material Geo Flex:	Not reported
Piping Material Other:	Not reported
Piping Material Other Comment:	Not reported
Piping Material Unknown:	Not reported
Piping Type Gravity Fed:	Not reported
Piping Type Has Piping Been Repaired:	Not reported
Piping Type Not Marked on Form:	Not reported
Piping Type Pressure (Remote):	CHECKED
Piping Type Suction: No Valve at Tank	Not reported
Piping Type Suction: Valve at Tank	Not reported
Tank Material Asphalt Coated or Bare Steel:	Not reported
Tank Material Cathodically Protected Steel:	Not reported
Tank Material Composite (Steel With Fiberglass):	Not reported
Tank Material Concrete:	Not reported
Tank Material Double Walled:	CHECKED
Tank Material Epoxy Coated Steel:	Not reported
Tank Material Excavation Liner:	Not reported
Tank Material Fiberglass Reinforced Plastic:	CHECKED
Tank Material Has Tank Been Repaired:	Not reported
Tank Material Lined Interior:	Not reported
Tank Material Other:	CHECKED
Tank Material Description of Other Construction:	Not reported
Tank Material Polyethylene Tank Jacket:	Not reported
Tank Material Unknown:	Not reported
Latitude:	42.24124
Longitude:	-83.76584
Facility Type:	ACTIVE
Facility ID:	00038274
Owner Country:	Not reported
Owner Name:	MEIJER INC
Owner Address:	2929 WALKER AVE NW
Owner City:	GRAND RAPIDS
Owner State:	MI

GAS STATION #64 (Continued) **U002303304**

Owner Zip:	49544
Owner Contact:	Not reported
Owner Phone:	6164536711
Contact:	Aaron Besmer
Contact Phone:	(616) 791-3540
Date of Collection:	10/21/2003
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 2 - Jackson District Office
Tank ID:	2
Capacity:	12000
Tank Status:	Currently In Use
Substance:	Gasoline,
Install Date:	12/01/1994
Remove Date:	Not reported
Tank Number:	UTK-080282-15
Tank Details Compartments:	Not reported
Tank Details Number of Compartments:	Not reported
Tank Release Detection Automatic Tank Gauging:	CHECKED
Tank Release Detection Groundwater Monitoring:	Not reported
Impressed Device:	Not reported
Tank Release Detection Inter Monitoring/Second Conatinment:	Not reported
Tank Release Detection Interstital Monitoring Double Walled Tank/Piping:	CHECKED
Tank Release Detection Inventory Control:	Not reported
Tank Release Detection Manual (Static) Tank Gauging:	Not reported
Tank Release Detection Other:	Not reported
Tank Release Detection Other Comment:	Not reported
Tank Release Detection Tank Tightness Testing:	Not reported
Tank Release Detection Vapor Monitoring:	Not reported
Piping Release Detection Automatic Line Leak Detectors:	Not reported
Piping Release Detection Ground Water Monitoring:	Not reported
Piping Release Detection Interstitial Monitoring Double Walled Piping:	CHECKED
Piping Release Detection Interstitial Monitoring Second Containment:	Not reported
Piping Release Detection Line Tightness Testing:	Not reported
Piping Release Detection Other:	CHECKED
Piping Release Detection Other Comment:	Not reported
Piping Release Detection Vapor Monitoring:	Not reported
Piping Material Bare Steel:	Not reported
Piping Material Cathodically Protected:	Not reported
Piping Material Copper:	Not reported
Piping Material Double Walled:	CHECKED
Piping Material Enviroflex:	Not reported
Piping Material Fiberglass Reinforced Plastic:	CHECKED
Piping Material Flexible Piping:	Not reported
Piping Material Galvanized Steel:	Not reported
Piping Material Geo Flex:	Not reported
Piping Material Other:	Not reported
Piping Material Other Comment:	Not reported
Piping Material Unknown:	Not reported
Piping Type Gravity Fed:	Not reported
Piping Type Has Piping Been Repaired:	Not reported
Piping Type Not Marked on Form:	Not reported

GAS STATION #64 (Continued) **U002303304**

Piping Type Pressure (Remote):		CHECKED
Piping Type Suction: No Valve at Tank		Not reported
Piping Type Suction: Valve at Tank		Not reported
Tank Material Asphalt Coated or Bare Steel:		Not reported
Tank Material Cathodically Protected Steel:		Not reported
Tank Material Composite (Steel With Fiberglass):		Not reported
Tank Material Concrete:		Not reported
Tank Material Double Walled:		CHECKED
Tank Material Epoxy Coated Steel:		Not reported
Tank Material Excavation Liner:		Not reported
Tank Material Fiberglass Reinforced Plastic:		CHECKED
Tank Material Has Tank Been Repaired:		Not reported
Tank Material Lined Interior:		Not reported
Tank Material Other:		CHECKED
Tank Material Description of Other Construction:		Not reported
Tank Material Polyethylene Tank Jacket:		Not reported
Tank Material Unknown:		Not reported
Latitude:	42.24124	
Longitude:	-83.76584	
Facility Type:	ACTIVE	
Facility ID:	00038274	
Owner Country:	Not reported	
Owner Name:	MEIJER INC	
Owner Address:	2929 WALKER AVE NW	
Owner City:	GRAND RAPIDS	
Owner State:	MI	
Owner Zip:	49544	
Owner Contact:	Not reported	
Owner Phone:	6164536711	
Contact:	Aaron Besmer	
Contact Phone:	(616) 791-3540	
Date of Collection:	10/21/2003	
Accuracy:	10	
Horizontal Datum:	NAD83	
Accuracy Value Unit:	METERS	
Source:	STATE OF MICHIGAN	
Point Line Area:	POINT	
Desc Category:	Plant Entrance (Freight)	
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off	
District:	Region 2 - Jackson District Office	
Tank ID:	1	
Capacity:	12000	
Tank Status:	Currently In Use	
Substance:	Gasoline,	
Install Date:	12/01/1994	
Remove Date:	Not reported	
Tank Number:	UTK-013505-15	
Tank Details Compartments:		Not reported
Tank Details Number of Compartments:		Not reported
Tank Release Detection Automatic Tank Gauging:		Not reported
Tank Release Detection Groundwater Monitoring:		Not reported
Impressed Device:		Not reported
Tank Release Detection Inter Monitoring/Second Conatinment:		Not reported
Tank Release Detection Interstital Monitoring Double Walled Tank/Piping:		CHECKED
Tank Release Detection Inventory Control:		Not reported
Tank Release Detection Manual (Static) Tank Gauging:		Not reported

GAS STATION #64 (Continued) **U002303304**

Tank Release Detection Other:	Not reported
Tank Release Detection Other Comment:	Not reported
Tank Release Detection Tank Tightness Testing:	Not reported
Tank Release Detection Vapor Monitoring:	Not reported
Piping Release Detection Automatic Line Leak Detectors:	Not reported
Piping Release Detection Ground Water Monitoring:	Not reported
Piping Release Detection Interstitial Monitoring Double Walled Piping:	CHECKED
Piping Release Detection Interstitial Monitoring Second Containment:	Not reported
Piping Release Detection Line Tightness Testing:	Not reported
Piping Release Detection Other:	CHECKED
Piping Release Detection Other Comment:	Not reported
Piping Release Detection Vapor Monitoring:	Not reported
Piping Material Bare Steel:	Not reported
Piping Material Cathodically Protected:	Not reported
Piping Material Copper:	Not reported
Piping Material Double Walled:	CHECKED
Piping Material Enviroflex:	Not reported
Piping Material Fiberglass Reinforced Plastic:	CHECKED
Piping Material Flexible Piping:	Not reported
Piping Material Galvanized Steel:	Not reported
Piping Material Geo Flex:	Not reported
Piping Material Other:	Not reported
Piping Material Other Comment:	Not reported
Piping Material Unknown:	Not reported
Piping Type Gravity Fed:	Not reported
Piping Type Has Piping Been Repaired:	Not reported
Piping Type Not Marked on Form:	Not reported
Piping Type Pressure (Remote):	CHECKED
Piping Type Suction: No Valve at Tank	Not reported
Piping Type Suction: Valve at Tank	Not reported
Tank Material Asphalt Coated or Bare Steel:	Not reported
Tank Material Cathodically Protected Steel:	Not reported
Tank Material Composite (Steel With Fiberglass):	Not reported
Tank Material Concrete:	Not reported
Tank Material Double Walled:	CHECKED
Tank Material Epoxy Coated Steel:	Not reported
Tank Material Excavation Liner:	Not reported
Tank Material Fiberglass Reinforced Plastic:	CHECKED
Tank Material Has Tank Been Repaired:	Not reported
Tank Material Lined Interior:	Not reported
Tank Material Other:	CHECKED
Tank Material Description of Other Construction:	Not reported
Tank Material Polyethylene Tank Jacket:	Not reported
Tank Material Unknown:	Not reported
Latitude: 42.24124	
Longitude: -83.76584	

WDS:

Site Id:	MI0000969949
WMD Id:	391650
Site Specific Name:	MEIJER STORE/GAS #64
Mailing Address:	3145 ANN ARBOR SALINE RD
Mailing City/State/Zip:	48103
Mailing County:	WASHTENAW

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: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
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: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
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
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

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: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: N/A
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 07/06/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/15/2018
	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: 07/06/2018
Number of Days to Update: 92	Next Scheduled EDR Contact: 10/15/2018
	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 know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 05/18/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 07/06/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/29/2018
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/29/2018
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
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: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/09/2018
Next Scheduled EDR Contact: 08/27/2018
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: 02/13/2018
Date Data Arrived at EDR: 02/27/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2018
Next Scheduled EDR Contact: 09/10/2018
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: 02/13/2018
Date Data Arrived at EDR: 02/27/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

Federal ERNS list

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

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
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: 07/18/2018
Next Scheduled EDR Contact: 11/05/2018
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: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 05/07/2018
Number of Days to Update: 41

Source: Dept of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
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: 05/03/2018
Date Data Arrived at EDR: 05/16/2018
Date Made Active in Reports: 06/27/2018
Number of Days to Update: 42

Source: Dept of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 05/16/2018
Next Scheduled EDR Contact: 08/27/2018
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: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/16/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

UST 2: Underground Storage Tank Listing
A listing of underground storage tank site locations that have unknown owner information.

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/27/2018
Number of Days to Update: 63

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 07/12/2018
Next Scheduled EDR Contact: 10/29/2018
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: 09/13/2017
Date Data Arrived at EDR: 02/01/2018
Date Made Active in Reports: 02/08/2018
Number of Days to Update: 7

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Annually

AST: Aboveground Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 02/08/2018
Date Data Arrived at EDR: 02/13/2018
Date Made Active in Reports: 04/17/2018
Number of Days to Update: 63

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 05/09/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: No Update Planned

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: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

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: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/16/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

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

Date of Government Version: 05/25/2018
Date Data Arrived at EDR: 05/29/2018
Date Made Active in Reports: 06/27/2018
Number of Days to Update: 29

Source: Dept of Environmental Quality
Telephone: 517-373-4828
Last EDR Contact: 05/23/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

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

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

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: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
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: 07/18/2018
Next Scheduled EDR Contact: 11/05/2018
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, Detrot 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: 07/18/2018
Next Scheduled EDR Contact: 11/05/2018
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.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/21/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities
A listing of recycling center locations.

Date of Government Version: 01/11/2018
Date Data Arrived at EDR: 01/16/2018
Date Made Active in Reports: 01/26/2018
Number of Days to Update: 10

Source: Dept of Environmental Quality
Telephone: 517-241-5719
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

HIST LF: Inactive Solid Waste Facilities
The database contains historical information and is no longer updated.

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

Source: 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

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: 01/30/2018
Next Scheduled EDR Contact: 05/14/2018
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: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
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 Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/04/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Varies

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: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
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: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/27/2018
Number of Days to Update: 63

Source: Department of Environmental Quality
Telephone: 517-284-5136
Last EDR Contact: 04/25/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Quarterly

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: 07/18/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: No Update Planned

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: 07/18/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

DEL PART 201: Delisted List of Contaminated Sites

A deleted site has been removed from the Part 201 List because information known to the DEQ at the time of the evaluation does not support inclusion on the Part 201 List. This designation is often applied to sites where changes in cleanup criteria resulted in a determination that the site no longer exceeds any applicable cleanup criterion. A delisted site has been removed from the Part 201 List because response actions have reduced the levels of contaminants to concentrations which meet or are below the criteria for unrestricted residential use.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 09/11/2013
Number of Days to Update: 41

Source: Dept of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 07/18/2018
Next Scheduled EDR Contact: 11/05/2018
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: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
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: 12/25/2017
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 01/26/2018
Number of Days to Update: 7

Source: Dept of Environmental Quality
Telephone: 517-241-7603
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
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: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 08/06/2018
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: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

PEAS: Pollution Emergency Alerting System

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

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/26/2018
Date Made Active in Reports: 04/04/2018
Number of Days to Update: 68

Source: Dept of Environmental Quality
Telephone: 517-373-8427
Last EDR Contact: 04/26/2018
Next Scheduled EDR Contact: 08/06/2018
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
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: 05/25/2018
Next Scheduled EDR Contact: 09/03/2018
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: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
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: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
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.

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: 05/15/2018
Next Scheduled EDR Contact: 08/27/2018
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: 03/01/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
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: 05/07/2018
Next Scheduled EDR Contact: 08/20/2018
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: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/08/2018
Next Scheduled EDR Contact: 08/20/2018
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: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/01/2018
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.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/25/2018
Next Scheduled EDR Contact: 09/03/2018
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: 04/09/2018
Next Scheduled EDR Contact: 08/06/2018
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: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
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: 07/20/2018
Next Scheduled EDR Contact: 11/05/2018
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

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 08/20/2018
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
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
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
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/22/2018
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
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
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2018
Next Scheduled EDR Contact: 09/17/2018
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
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/04/2018
Next Scheduled EDR Contact: 09/17/2018
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
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/27/2018
Next Scheduled EDR Contact: 08/06/2018
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: 04/03/2018
Date Data Arrived at EDR: 04/05/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/15/2018
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
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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

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

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

DOT OPS: Incident and Accident Data

Department of Transporation, 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 Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/13/2018
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: 03/31/2018
Date Data Arrived at EDR: 04/16/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/01/2018
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: 06/28/2018
Next Scheduled EDR Contact: 09/03/2018
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: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
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: 05/07/2018
Next Scheduled EDR Contact: 08/20/2018
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.

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: 05/18/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
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 1931and 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: 05/03/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2018
Next Scheduled EDR Contact: 09/10/2018
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.

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: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
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: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
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: 03/08/2018
Date Data Arrived at EDR: 03/13/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 87

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 09/24/2018
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: 02/21/2018
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 28

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 06/06/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 73

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

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

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 06/01/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018
Date Data Arrived at EDR: 03/17/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/06/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Quarterly

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: 02/20/2018
Date Data Arrived at EDR: 02/21/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 30

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/23/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data
Permit and emissions inventory data.

Date of Government Version: 03/15/2018
Date Data Arrived at EDR: 03/20/2018
Date Made Active in Reports: 05/07/2018
Number of Days to Update: 48

Source: Dept of Environmental Quality
Telephone: 517-373-7074
Last EDR Contact: 06/14/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Annually

ASBESTOS: Asbestos Notification Listing
Asbestos

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/04/2018
Date Made Active in Reports: 06/26/2018
Number of Days to Update: 53

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-284-7699
Last EDR Contact: 05/01/2018
Next Scheduled EDR Contact: 08/13/2018
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
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 20

Source: Dept of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 05/09/2018
Next Scheduled EDR Contact: 08/27/2018
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
Date Data Arrived at EDR: 02/02/2017
Date Made Active in Reports: 04/20/2017
Number of Days to Update: 77

Source: Dept of Environmental Quality
Telephone: 586-753-3754
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments
A listing of drycleaning facilities in Michigan.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/02/2018
Date Made Active in Reports: 06/27/2018
Number of Days to Update: 56

Source: Dept of Environmental Quality
Telephone: 517-335-4586
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/04/2018
Date Made Active in Reports: 05/07/2018
Number of Days to Update: 33

Source: Dept of Environmental Quality
Telephone: 517-335-6610
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/15/2018
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: 03/29/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 05/17/2018
Number of Days to Update: 44

Source: Dept of Environmental Quality
Telephone: 517-335-4034
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
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: 06/28/2018
Next Scheduled EDR Contact: 10/15/2018
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: 05/31/2018
Next Scheduled EDR Contact: 09/17/2018
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: 02/12/2018
Date Data Arrived at EDR: 04/05/2018
Date Made Active in Reports: 05/07/2018
Number of Days to Update: 32

Source: Dept of Environmental Quality
Telephone: 517-241-1300
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/15/2018
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: 03/30/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 05/07/2018
Number of Days to Update: 26

Source: Dept of Environmental Quality
Telephone: 517-241-1515
Last EDR Contact: 07/18/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

WDS: Waste Data System

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

Date of Government Version: 05/05/2018
Date Data Arrived at EDR: 05/07/2018
Date Made Active in Reports: 05/09/2018
Number of Days to Update: 2

Source: Dept of Environmental Quality
Telephone: 517-284-6562
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Varies

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

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
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
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
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
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
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
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: 01/03/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/22/2018
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 107

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/03/2018
Date Made Active in Reports: 06/07/2018
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/13/2018
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: 07/12/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/21/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/11/2018
Next Scheduled EDR Contact: 09/24/2018
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.

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 ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CREST STREET PROPERTY
CREST ST
ANN ARBOR, MI 48103

TARGET PROPERTY COORDINATES

Latitude (North):	42.242471 - 42˚ 14’ 32.90’’
Longitude (West):	83.771915 - 83˚ 46’ 18.89’’
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	271295.1
UTM Y (Meters):	4680205.0
Elevation:	917 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6066328 SALINE, MI
Version Date:	2014
Northwest Map:	6066248 ANN ARBOR WEST, 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).

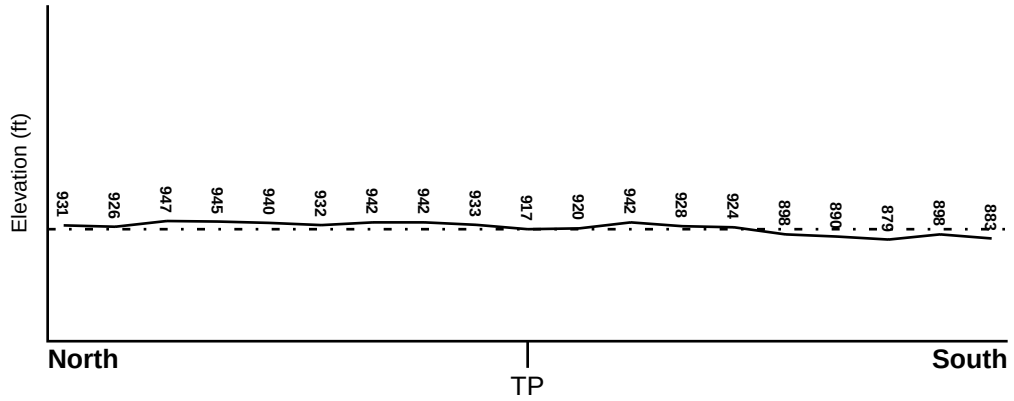
TOPOGRAPHIC INFORMATION

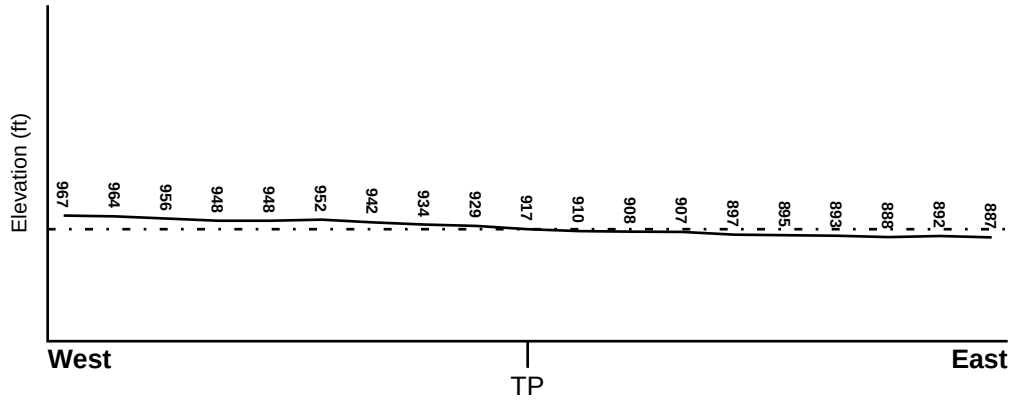
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 917 ft.

0 1/2 1 Miles

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

Flood Plain Panel at Target Property	FEMA Source Type
26161C0382E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
26161C0244E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SALINE	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

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

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

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	10 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: 2.00 Min: 0.60	Max: 7.30 Min: 5.10
2	10 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.60 Min: 0.06	Max: 6.50 Min: 4.50
3	25 inches	32 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.06	Max: 7.80 Min: 6.10
4	32 inches	60 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.06	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

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

Soil Surface Textures: muck
clay

Surficial Soil Types: muck
clay

Shallow Soil Types: silty clay

Deeper Soil Types: clay loam
sand
stratified

LOCAL / REGIONAL WATER AGENCY RECORDS

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

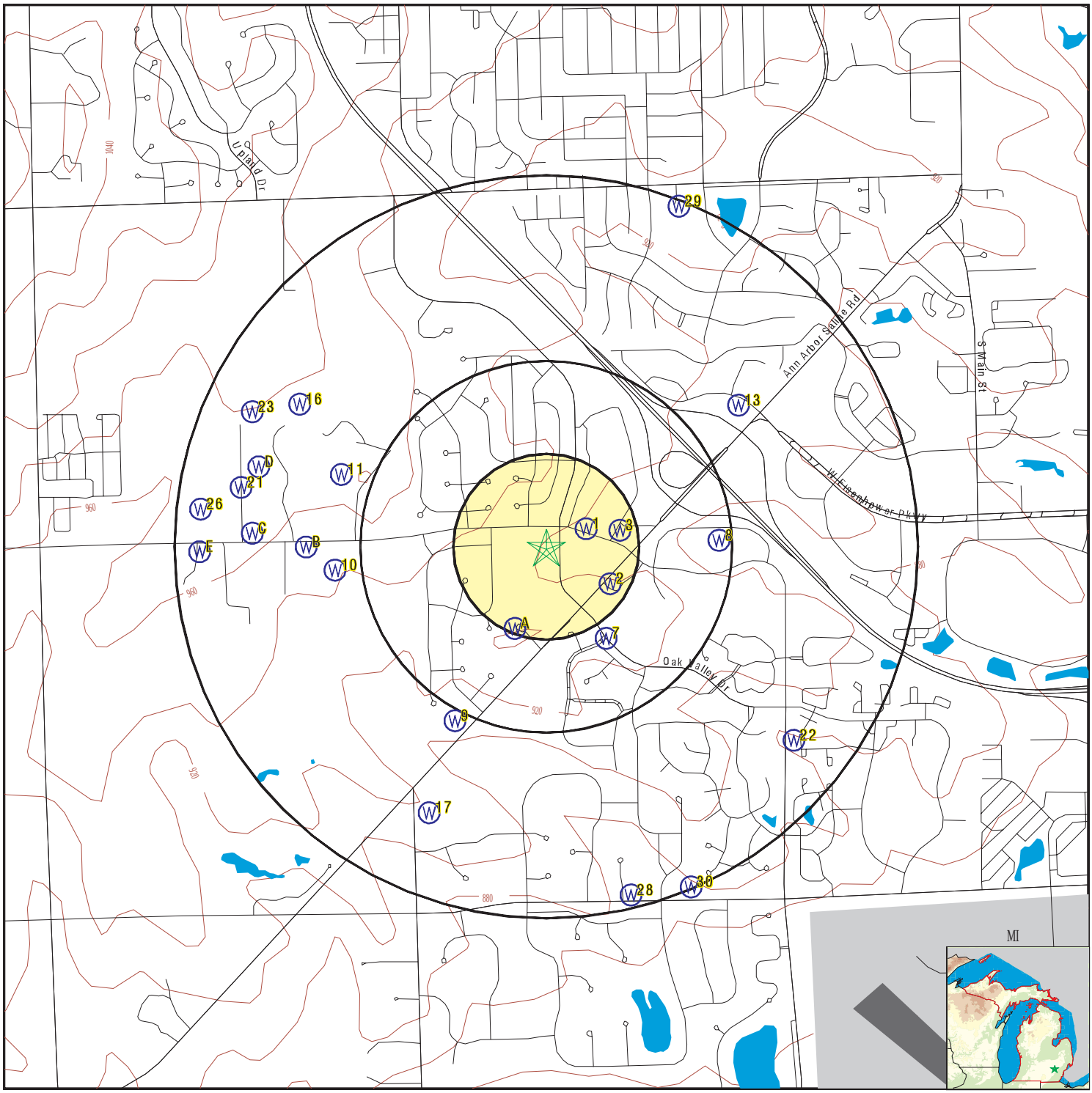
MAP ID	WELL ID	LOCATION FROM TP
1	MI3000000048120	0 - 1/8 Mile ENE
2	MI3000000047903	1/8 - 1/4 Mile ESE
3	MI3000000048114	1/8 - 1/4 Mile ENE
A4	MI3000000047736	1/8 - 1/4 Mile SSW
A5	MI3000000047744	1/8 - 1/4 Mile SSW
A6	MI3000000047703	1/4 - 1/2 Mile SSW
7	MI3000000047688	1/4 - 1/2 Mile SSE
8	MI3000000048071	1/4 - 1/2 Mile East
9	MI3000000047369	1/2 - 1 Mile SSW
10	MI3000000047968	1/2 - 1 Mile West
11	MI3000000048384	1/2 - 1 Mile WNW
B12	MI3000000048049	1/2 - 1 Mile West
13	MI3000000048661	1/2 - 1 Mile NE
B14	MI3000000048052	1/2 - 1 Mile West
C15	MI3000000048095	1/2 - 1 Mile West
16	MI3000000048665	1/2 - 1 Mile WNW
17	MI3000000046981	1/2 - 1 Mile SSW
D18	MI3000000048423	1/2 - 1 Mile WNW
D19	MI3000000048422	1/2 - 1 Mile WNW
C20	MI3000000048105	1/2 - 1 Mile West
21	MI3000000048337	1/2 - 1 Mile West
22	MI3000000047296	1/2 - 1 Mile SE
23	MI3000000048639	1/2 - 1 Mile WNW
E24	MI3000000048028	1/2 - 1 Mile West
E25	MI3000000048032	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
26	MI3000000048226	1/2 - 1 Mile West
E27	MI3000000048031	1/2 - 1 Mile West
28	MI3000000046497	1/2 - 1 Mile SSE
29	MI3000000049430	1/2 - 1 Mile NNE
30	MI3000000046538	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 5369404.2s



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

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

SITE NAME: Crest Street Property	CLIENT: ECT
ADDRESS: CREST ST Ann Arbor MI 48103	CONTACT: Ryan Higuchi INQUIRY #: 5369404.2s
LAT/LONG: 42.242471 / 83.771915	DATE: July 23, 2018 3:25 pm

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Map ID Direction Distance Elevation		Database	EDR ID Number
1 **ENE** **0 - 1/8 Mile** **Lower**		**MI WELLS**	**MI3000000048120**

Wellid:	81000006711	Import id:	81737607002
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	ELROD, THOMAS		
Well addr:	1965 WATERS RD.		
Well depth:	112		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1985-08-29 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	112		
Screen frm:	108		
Screen to:	112		
Swl:	61		
Test depth:	61		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2431724393		
Longitude:	-83.7698129412		
Methd coll:	Interpolation-Map		
Elevation:	915		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	915	Elev dif:	0
Elev miv:	915	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	16		
Pct aq d:	16	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	84
Pct cm d:	84	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:	14	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	51	A pct aq2:	27
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	73	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Medium	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

Pct aq 2:	20	Pct maq 2:	0
Pct cm 2:	80	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:	10
Pct maq 5:	0	Pct cm 5:	90
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:	51		
Horiz Conduct:	27.45105		
Vert Conduct:	.00014		
T2:	1400.0037		
D50plek:	122.0394		

2
ESE **MI WELLS** **MI3000000047903**
1/8 - 1/4 Mile
Higher

Wellid:	81000006710	Import id:	81737607001
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	Not Reported		
Well addr:	3151 SALINE RD.		
Well depth:	127		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1290
Const date:	1980-09-10 00:00:00.000	Case type:	Unknown
Case dia:	4		

Case depth:	127		
Screen frm:	123		
Screen to:	127		
Swl:	70		
Test depth:	71		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2410305128		
Longitude:	-83.7685582073		
Methd coll:	Interpolation-Map		
Elevation:	925		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	918	Elev dif:	7
Elev miv:	925	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:	91
Pct cm d:	91	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:	12	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	57	A pct aq2:	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:	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:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	40	Pct maq 6:	0
Pct cm 6:	60	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	57		
Horiz Conduct:	21.05271		
Vert Conduct:	.00013		
T2:	1200.0045		
D50plek:	117.86324		

3
ENE **MI WELLS** **MI3000000048114**
1/8 - 1/4 Mile
Lower

Wellid:	81000006714	Import id:	81737607005
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	SCHNEARLESR, KARL		
Well addr:	1875 WATERS RD.		
Well depth:	105		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	36
Const date:	1967-06-09 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	105		
Screen frm:	101		
Screen to:	105		
Swl:	60		
Test depth:	63		
Test hours:	0		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2431140626		
Longitude:	-83.7680426951		
Methd coll:	Interpolation-Map		
Elevation:	905		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	905	Elev dif:	0
Elev miv:	905	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	31		
Pct aq d:	31	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	40

Pct cm d:	40	Pct cm r:	0
Pct pcm:	26	Pct pcm d:	26
Pct pcm r:	0	Pct na:	3
Pct na d:	3	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	25	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	45	A pct aq2:	56
A pct maq2:	0	A pct pcm2:	44
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
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:	85
Pct pcm 1:	0	Pct na 1:	15
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	40
Pct maq 3:	0	Pct cm 3:	25
Pct pcm 3:	35	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	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
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:	45		
Horiz Conduct:	86.66711		
Vert Conduct:	.00225		
T2:	3900.02		
D50plek:	284.69761		

Map ID Direction Distance Elevation		Database	EDR ID Number
A4 **SSW** **1/8 - 1/4 Mile** **Higher**		**MI WELLS**	**MI3000000047736**

Wellid:	81000006713	Import id:	81737607004
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	MICHIGAN VALLEY HOMES		
Well addr:	3350 SALINE RD		
Well depth:	200		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	167
Const date:	1975-11-27 00:00:00.000	Case type:	Unknown
Case dia:	0		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.2393785077		
Longitude:	-83.7731955001		
Methd coll:	Interpolation-Map		
Elevation:	940		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	941	Elev dif:	1
Elev miv:	940	Aq code:	Not Reported
Aq flag:	Lithology Problem (Drift under Rock)		
Pct aq:	0		
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-9
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	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		

A5
SSW **MI WELLS** **MI3000000047744**
1/8 - 1/4 Mile
Higher

Wellid:	81000006717	Import id:	81737607008
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	MICHIGAN KALLEY HOMES		
Well addr:	3350 SALINE RD.		
Well depth:	205		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	167
Const date:	1975-02-01 00:00:00.000	Case type:	Unknown
Case dia:	4		

Case depth:	197		
Screen frm:	197		
Screen to:	205		
Swl:	105		
Test depth:	125		
Test hours:	1		
Test rate:	0	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.239461715		
Longitude:	-83.7738409843		
Methd coll:	Interpolation-Map		
Elevation:	942		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	938	Elev dif:	4
Elev miv:	942	Aq code:	Not Reported
Aq flag:	Lithology Problem (Drift under Rock)		
Pct aq:	0		
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-9
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	50	A pct aq:	14
A pct maq:	86	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	100	A pct aq2:	7
A pct maq2:	43	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:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	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:	25
Pct cm 4:	75	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	100	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:	100		
Horiz Conduct:	11.30005		
Vert Conduct:	.0002		
T2:	1130.005		
D50plek:	195.33552		

A6
SSW **MI WELLS** **MI3000000047703**
1/4 - 1/2 Mile
Higher

Wellid:	81000006712	Import id:	81737607003
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	MICHIGAN VALLEY HOMES		
Well addr:	3350 SALINE RD.		
Well depth:	200		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	167
Const date:	1974-11-12 00:00:00.000	Case type:	Unknown
Case dia:	0		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2390232627		
Longitude:	-83.7736131876		
Methd coll:	Interpolation-Map		
Elevation:	942		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	941	Elev dif:	1
Elev miv:	942	Aq code:	Rock Well
Aq flag:	Not Reported		
Pct aq:	0		
Pct aq d:	0	Pct aq r:	0
Pct maq:	3	Pct maq d:	6
Pct maq r:	0	Pct cm:	98

Pct cm d:	94	Pct cm r:	100
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:	85
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	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:	R		
Hit swl:	F		
Athk2:	0		
Horiz Conduct:	.76932		
Vert Conduct:	.00011		
T2:	50.006		
D50plek:	6.72997		

Map ID Direction Distance Elevation		Database	EDR ID Number
7 **SSE** **1/4 - 1/2 Mile** **Higher**		**MI WELLS**	**MI3000000047688**

Wellid:	81000013216	Import id:	Not Reported
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	WIDE WORLD SPORTS CENTER		
Well addr:	2140 OAK VALLEY		
Well depth:	258		
Well type:	Type II public		
Wssn:	2044581		
Well num:	001	Driller id:	0
Const date:	1995-09-28 00:00:00.000	Case type:	Unknown
Case dia:	5		
Case depth:	248		
Screen frm:	0		
Screen to:	0		
Swl:	0		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	33
Latitude:	42.23890183		
Longitude:	-83.76876549		
Methd coll:	Address Matching-House Number		
Elevation:	899		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet		
Swl flag:	SWL = 0		
Elev dem:	932	Elev dif:	33
Elev miv:	899	Aq code:	Unknown Lithology
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:	Not Reported	Rock top:	-3
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	100

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	100	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	100
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	100
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	100	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	100
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	100	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	100
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		

8
East **MI WELLS** **MI3000000048071**
1/4 - 1/2 Mile
Lower

Wellid:	81000006718	Import id:	81737607009
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	STOWAWAY SELF STORAGE		
Well addr:	3060 LOHR RD.		
Well depth:	116		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	388
Const date:	1977-08-23 00:00:00.000	Case type:	Unknown
Case dia:	4		

Case depth:	112		
Screen frm:	112		
Screen to:	116		
Swl:	60		
Test depth:	80		
Test hours:	4		
Test rate:	15	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2427232181		
Longitude:	-83.7628465771		
Methd coll:	Interpolation-Map		
Elevation:	895		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	892	Elev dif:	3
Elev miv:	895	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	14		
Pct aq d:	14	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	56
Pct cm d:	56	Pct cm r:	0
Pct pcm:	30	Pct pcm d:	30
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:	56	A pct aq2:	23
A pct maq2:	0	A pct pcm2:	45
A pct cm2:	32	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
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:	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:	50
Pct pcm 3:	50	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	75
Pct pcm 5:	25	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:	5.80405		
Vert Conduct:	.00027		
T2:	325.0268		
D50plek:	33.68664		

9
SSW **MI WELLS** **MI3000000047369**
1/2 - 1 Mile
Lower

Wellid:	81000006720	Import id:	81737607011
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	HARPER		
Well addr:	3484 SALINE RD.		
Well depth:	107		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	36
Const date:	1966-09-18 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	107		
Screen frm:	103		
Screen to:	107		
Swl:	90		
Test depth:	86		
Test hours:	1		
Test rate:	12	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.2356881245		
Longitude:	-83.7766902713		
Methd coll:	Interpolation-Map		
Elevation:	903		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	902	Elev dif:	1
Elev miv:	903	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:	17	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	17	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:	Sand
A sc lmod1:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	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:	75
Pct maq 5:	0	Pct cm 5:	25
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:	17		
Horiz Conduct:	123.52941		
Vert Conduct:	108.51064		
T2:	2100		
D50plek:	59.75087		

Map ID Direction Distance Elevation		Database	EDR ID Number
10 **West** **1/2 - 1 Mile** **Higher**		**MI WELLS**	**MI3000000047968**

Wellid:	81000006171	Import id:	81737512008
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	12
Owner name:	MAAKE, DOUGLAS		
Well addr:	2601 WATERS RD.		
Well depth:	108		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1586
Const date:	1980-07-25 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	104		
Screen frm:	104		
Screen to:	108		
Swl:	80		
Test depth:	85		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2415592569		
Longitude:	-83.7829860591		
Methd coll:	Interpolation-Map		
Elevation:	942		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	938	Elev dif:	4
Elev miv:	942	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	6		
Pct aq d:	6	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	94
Pct cm d:	94	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:	7	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	28	A pct aq2:	25
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	75	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	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:	28		
Horiz Conduct:	25.00008		
Vert Conduct:	.00013		
T2:	700.0021		
D50plek:	34.76283		

11
WNW **MI WELLS** **MI3000000048384**
1/2 - 1 Mile
Higher

Wellid:	81000005994	Import id:	81737501004
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	PARKS, WILLIAM		
Well addr:	2814 EAST ARBOR DR		
Well depth:	149		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1987-01-13 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

Case depth:	141		
Screen frm:	141		
Screen to:	149		
Swl:	105		
Test depth:	105		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2452884841		
Longitude:	-83.7826467259		
Methd coll:	Interpolation-Map		
Elevation:	970		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	6
Elev miv:	970	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:	77
Pct cm d:	77	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:	12	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	44	A pct aq2:	27
A pct maq2:	0	A pct pcm2:	27
A pct cm2:	45	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:	15
Pct maq 1:	0	Pct cm 1:	85
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	25	Pct maq 2:	0
Pct cm 2:	75	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:	10	Pct maq 4:	0
Pct cm 4:	90	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	44		
Horiz Conduct:	13.63668		
Vert Conduct:	.00021		
T2:	600.014		
D50plek:	47.21983		

B12
West
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048049**

Wellid:	81000006166	Import id:	81737512003
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	12
Owner name:	MULLKOFF, DOUGLAS		
Well addr:	2761 WATERS RD.		
Well depth:	120		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	19
Const date:	1969-05-01 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	116		
Screen frm:	116		
Screen to:	120		
Swl:	78		
Test depth:	97		
Test hours:	26		
Test rate:	1	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.2424548457		
Longitude:	-83.7843260934		
Methd coll:	Interpolation-Map		
Elevation:	950		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	2
Elev miv:	950	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:	92

Pct cm d:	92	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	1
Pct na d:	1	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:	42	A pct aq2:	10
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	90	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	W/Silt	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:	70
Pct pcm 1:	0	Pct na 1:	5
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:	16	Pct maq 6:	0
Pct cm 6:	84	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:	42		
Horiz Conduct:	9.5239		
Vert Conduct:	.00011		
T2:	400.0038		
D50plek:	30.7314		

Map ID Direction Distance Elevation		Database	EDR ID Number
13 **NE** **1/2 - 1 Mile** **Lower**		**MI WELLS**	**MI3000000048661**

Wellid:	81000006708	Import id:	81737606001
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	6
Owner name:	MEADOWBROOK VILLAGE APT.		
Well addr:	1550 BROOKFIELD		
Well depth:	93		
Well type:	Irrigation		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1985-08-20 00:00:00.000	Case type:	Unknown
Case dia:	6		
Case depth:	89		
Screen frm:	86.6		
Screen to:	93		
Swl:	49		
Test depth:	58		
Test hours:	3		
Test rate:	60	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.247990682		
Longitude:	-83.7618216757		
Methd coll:	Interpolation-Map		
Elevation:	910		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	909	Elev dif:	1
Elev miv:	910	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	6		
Pct aq d:	6	Pct aq r:	0
Pct maq:	18	Pct maq d:	18
Pct maq r:	0	Pct cm:	75
Pct cm d:	75	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:	23	A pct aq:	26
A pct maq:	74	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	44	A pct aq2:	14
A pct maq2:	39	A pct pcm2:	0
A pct cm2:	48	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	94	A sc lith2:	Sand & Gravel
A sc lmod2:	W/Clay	A sc lmaq2:	MAQ
A sc lpct2:	6	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:	50
Pct cm 4:	50	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:	44		
Horiz Conduct:	44.77278		
Vert Conduct:	.00021		
T2:	1970.0021		
D50plek:	145.55289		

B14
West
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048052**

Wellid:	81000006167	Import id:	81737512004
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	12
Owner name:	HAYNES, R.D.		
Well addr:	2781 WATERS RD.		
Well depth:	123		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	361
Const date:	1967-03-05 00:00:00.000	Case type:	Unknown
Case dia:	4		

Case depth:	123		
Screen frm:	0		
Screen to:	0		
Swl:	70		
Test depth:	75		
Test hours:	0		
Test rate:	30	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.2424697174		
Longitude:	-83.7846657109		
Methd coll:	Interpolation-Map		
Elevation:	952		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	4
Elev miv:	952	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	2		
Pct aq d:	2	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:	98	Pct pcm d:	98
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	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		

C15
West
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048095**

Wellid:	81000005998	Import id:	81737501008
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	GRAMS, ROBERT		
Well addr:	2860 WATERS RD.		
Well depth:	157		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1760
Const date:	1970-06-10 00:00:00.000	Case type:	Unknown
Case dia:	0		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	120		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2429448486		
Longitude:	-83.786736053		
Methd coll:	Interpolation-Map		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	958	Elev dif:	2
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	36		
Pct aq d:	36	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	64

Pct cm d:	64	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	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:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	84	Pct maq 6:	0
Pct cm 6:	16	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	100
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		

Map ID Direction Distance Elevation		Database	EDR ID Number
16 **WNW** **1/2 - 1 Mile** **Higher**		**MI WELLS**	**MI3000000048665**

Wellid:	81000005991	Import id:	81737501001
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	SHANEOUR, TED		
Well addr:	2502 W ARBOR DR.		
Well depth:	121		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1986-11-17 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	117		
Screen frm:	117		
Screen to:	121		
Swl:	107		
Test depth:	107		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2480298041		
Longitude:	-83.7848348447		
Methd coll:	Interpolation-Map		
Elevation:	978		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	1
Elev miv:	978	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:	14	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	14	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:	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:	50
Pct maq 1:	0	Pct cm 1:	50
Pct pcm 1:	0	Pct na 1:	0

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
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:	14		
Horiz Conduct:	100		
Vert Conduct:	100		
T2:	1400		
D50plek:	33.50093		

17
SSW **MI WELLS** **MI3000000046981**
1/2 - 1 Mile
Higher

Wellid:	81000006719	Import id:	81737607010
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	SEYFRIED, FRED		
Well addr:	3657 S MAPLE RD.		
Well depth:	117		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1075
Const date:	1971-03-20 00:00:00.000	Case type:	Unknown
Case dia:	4		

Case depth:	117		
Screen frm:	113		
Screen to:	117		
Swl:	80		
Test depth:	82		
Test hours:	2		
Test rate:	15	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.2321016267		
Longitude:	-83.778045868		
Methd coll:	Interpolation-Map		
Elevation:	915		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	915	Elev dif:	0
Elev miv:	915	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:	56
Pct cm d:	56	Pct cm r:	0
Pct pcm:	34	Pct pcm d:	34
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:	12	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	37	A pct aq2:	32
A pct maq2:	0	A pct pcm2:	68
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	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:	25	Pct pcm 4:	75
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	37		
Horiz Conduct:	32.43311		
Vert Conduct:	.00148		
T2:	1200.025		
D50plek:	76.50896		

D18
WNW
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048423**

Wellid:	81000005993	Import id:	81737501003
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	JAMES THOMAS		
Well addr:	2686 WEST ARBOR DR		
Well depth:	134		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1988-02-06 00:00:00.000	Case type:	Unknown
Case dia:	5		
Case depth:	130		
Screen frm:	130		
Screen to:	134		
Swl:	91		
Test depth:	91		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2455925633		
Longitude:	-83.7869160388		
Methd coll:	Interpolation-Map		
Elevation:	972		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	5
Elev miv:	972	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	29		
Pct aq d:	29	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	71

Pct cm d:	71	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:	26	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	43	A pct aq2:	65
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	35	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	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:	30
Pct maq 1:	0	Pct cm 1:	70
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:	25
Pct maq 3:	0	Pct cm 3:	75
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:	10
Pct maq 5:	0	Pct cm 5:	90
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	68	Pct maq 6:	0
Pct cm 6:	32	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:	43		
Horiz Conduct:	195.34887		
Vert Conduct:	.00029		
T2:	8400.0015		
D50plek:	564.41636		

Map ID Direction Distance Elevation		Database	EDR ID Number
D19 **WNW** **1/2 - 1 Mile** **Higher**		**MI WELLS**	**MI3000000048422**

Wellid:	81000010733	Import id:	Not Reported
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	EVERGREEN CUSTOM HOMES		
Well addr:	2635 ALEX		
Well depth:	312		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2014
Const date:	2000-07-10 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	308		
Screen frm:	308		
Screen to:	312		
Swl:	83		
Test depth:	83		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	25
Latitude:	42.24558816		
Longitude:	-83.78704145		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	977
Elev miv:	977	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	12		
Pct aq d:	12	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	86
Pct cm d:	86	Pct cm r:	0
Pct pcm:	2	Pct pcm d:	2
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:	28	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	229	A pct aq2:	15
A pct maq2:	0	A pct pcm2:	3
A pct cm2:	83	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:	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:	30
Pct maq 5:	0	Pct cm 5:	70
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:	89	Pct pcm 8:	11
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	95
Pct pcm 9:	5	Pct na 9:	0
Pct aq 10:	45	Pct maq 10:	0
Pct cm 10:	55	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:	229		
Horiz Conduct:	20.08744		
Vert Conduct:	.00012		
T2:	4600.0249		
D50plek:	1694.92902		

C20
West
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048105**

Wellid:	81000005999	Import id:	81737501009
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	PETRUT, ALEX		
Well addr:	2950 WATERS RD.		
Well depth:	201		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1987-05-12 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	197		
Screen frm:	197		
Screen to:	201		
Swl:	104		
Test depth:	104		
Test hours:	2		
Test rate:	22	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2430537741		
Longitude:	-83.7879002258		
Methd coll:	Interpolation-Map		
Elevation:	967		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	1
Elev miv:	967	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:	88
Pct cm d:	88	Pct cm r:	0
Pct pcm:	2	Pct pcm d:	2
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:	97	A pct aq2:	15
A pct maq2:	0	A pct pcm2:	4
A pct cm2:	80	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	20	Pct maq 2:	0
Pct cm 2:	80	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	5
Pct maq 3:	0	Pct cm 3:	95
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:	84
Pct pcm 7:	16	Pct na 7:	0
Pct aq 8:	29	Pct maq 8:	0
Pct cm 8:	71	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:	97		
Horiz Conduct:	15.46404		
Vert Conduct:	.00012		
T2:	1500.0118		
D50plek:	247.79968		

21
West
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048337**

Wellid:	81000010109	Import id:	Not Reported
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	EVERGREEN CUSTOM HOMES		
Well addr:	2635 ALEX		
Well depth:	312		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2014
Const date:	2000-02-28 14:23:02.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	308		
Screen frm:	308		
Screen to:	312		
Swl:	83		
Test depth:	83		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.24478703		
Longitude:	-83.78790829		
Methd coll:	Address Matching-House Number		
Elevation:	942		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	35
Elev miv:	942	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	12		
Pct aq d:	12	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	86

Pct cm d:	86	Pct cm r:	0
Pct pcm:	2	Pct pcm d:	2
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:	28	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	229	A pct aq2:	15
A pct maq2:	0	A pct pcm2:	3
A pct cm2:	83	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:	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:	30
Pct maq 5:	0	Pct cm 5:	70
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:	89	Pct pcm 8:	11
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	95
Pct pcm 9:	5	Pct na 9:	0
Pct aq 10:	45	Pct maq 10:	0
Pct cm 10:	55	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:	229		
Horiz Conduct:	20.08768		
Vert Conduct:	.00012		
T2:	4600.0789		
D50plek:	1694.94793		

Map ID Direction Distance Elevation		Database	EDR ID Number
22 **SE** **1/2 - 1 Mile** **Lower**		**MI WELLS**	**MI3000000047296**

Wellid:	81000006724	Import id:	81737608004
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	8
Owner name:	LEDFORD, VICTOR		
Well addr:	3589 LOHR RD.		
Well depth:	102		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	19
Const date:	1982-04-07 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	98		
Screen frm:	98		
Screen to:	102		
Swl:	49		
Test depth:	54		
Test hours:	.5		
Test rate:	15	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2349282263		
Longitude:	-83.758917778		
Methd coll:	Interpolation-Map		
Elevation:	877		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	876	Elev dif:	1
Elev miv:	877	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	13		
Pct aq d:	13	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	15
Pct cm d:	15	Pct cm r:	0
Pct pcm:	73	Pct pcm d:	73
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:	80
A pct maq:	0	A pct pcm:	20
A pct cm:	0	A pct na:	0
A thickns2:	53	A pct aq2:	25
A pct maq2:	0	A pct pcm2:	75
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:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	45
Pct pcm 1:	55	Pct na 1:	0

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	5
Pct maq 3:	0	Pct cm 3:	30
Pct pcm 3:	65	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	50
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	50	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	53		
Horiz Conduct:	31.13962		
Vert Conduct:	.01325		
T2:	1650.4		
D50plek:	148.23123		

23
WNW **MI WELLS** **MI3000000048639**
1/2 - 1 Mile
Higher

Wellid:	81000005992	Import id:	81737501002
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	WHITEFORD, PRISCILLA		
Well addr:	2594 WEST ARBOR DR.		
Well depth:	132		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1986-11-17 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

Case depth:	128		
Screen frm:	128		
Screen to:	132		
Swl:	101		
Test depth:	101		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2477343907		
Longitude:	-83.7873211273		
Methd coll:	Interpolation-Map		
Elevation:	979		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	2
Elev miv:	979	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	23		
Pct aq d:	23	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:	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:	31	A pct aq:	97
A pct maq:	0	A pct pcm:	0
A pct cm:	3	A pct na:	0
A thickns2:	31	A pct aq2:	97
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	3	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Medium	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	92	Pct maq 6:	0
Pct cm 6:	8	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:	31		
Horiz Conduct:	290.32258		
Vert Conduct:	.0031		
T2:	9000.0001		
D50plek:	434.53411		

E24
West
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048028**

Wellid:	81000006168	Import id:	81737512005
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	12
Owner name:	TOWLER, DALE		
Well addr:	2977 WATERS RD.		
Well depth:	109		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1290
Const date:	1982-10-30 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	105		
Screen frm:	105		
Screen to:	109		
Swl:	25		
Test depth:	35		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2422628033		
Longitude:	-83.7895818516		
Methd coll:	Interpolation-Map		
Elevation:	962		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	2
Elev miv:	962	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	7		
Pct aq d:	7	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	93

Pct cm d:	93	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:	8	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	84	A pct aq2:	10
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	90	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:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	84		
Horiz Conduct:	4.762		
Vert Conduct:	.00011		
T2:	400.0076		
D50plek:	61.46334		

Map ID Direction Distance Elevation		Database	EDR ID Number
E25 **West** **1/2 - 1 Mile** **Higher**		**MI WELLS**	**MI3000000048032**

Wellid:	81000006169	Import id:	81737512006
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	12
Owner name:	TOWLER, DALE		
Well addr:	2977 WATERS RD.		
Well depth:	200		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1290
Const date:	1979-10-30 00:00:00.000	Case type:	Unknown
Case dia:	0		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2422857479		
Longitude:	-83.7900174144		
Methd coll:	Interpolation-Map		
Elevation:	962		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	964	Elev dif:	2
Elev miv:	962	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:	100
Pct cm d:	100	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	100
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	100	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	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		

26
West
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048226**

Wellid:	81000011039	Import id:	Not Reported
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	1
Owner name:	Cornell Jolta		
Well addr:	2600 East Arbor, Lot X1-B		
Well depth:	147		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2014
Const date:	2000-10-13 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

Case depth:	137		
Screen frm:	137		
Screen to:	147		
Swl:	102		
Test depth:	105		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	20
Latitude:	42.24393695		
Longitude:	-83.79003034		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	968
Elev miv:	968	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	18		
Pct aq d:	18	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	75
Pct cm d:	75	Pct cm r:	0
Pct pcm:	7	Pct pcm d:	7
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	27	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	45	A pct aq2:	60
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	40	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & 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:	50
Pct pcm 1:	50	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	20	Pct maq 6:	0
Pct cm 6:	80	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:	45		
Horiz Conduct:	30.00004		
Vert Conduct:	.00025		
T2:	1350.0018		
D50plek:	104.03404		

E27
West
1/2 - 1 Mile
Higher

MI WELLS **MI3000000048031**

Wellid:	81000006170	Import id:	81737512007
County:	Washtenaw	Township:	Lodi
Town range:	03S 05E	Section:	12
Owner name:	PRITZEL, ROGER		
Well addr:	3099 THOMAS RD.		
Well depth:	155		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1290
Const date:	1980-11-28 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	145		
Screen frm:	145		
Screen to:	155		
Swl:	70		
Test depth:	71		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.242281368		
Longitude:	-83.7906609402		
Methd coll:	Interpolation-Map		
Elevation:	963		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	1
Elev miv:	963	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	19		
Pct aq d:	19	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	81

Pct cm d:	81	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:	9	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	85	A pct aq2:	31
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	69	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Wet/Moist	A sc lmaq1:	AQ
A sc lpct1:	90	A sc lith2:	Clay
A sc lmod2:	Not Reported	A sc lmaq2:	CM
A sc lpct2:	10	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:	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:	20	Pct maq 6:	0
Pct cm 6:	80	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	64
Pct maq 7:	0	Pct cm 7:	36
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:	85		
Horiz Conduct:	20.5883		
Vert Conduct:	.00014		
T2:	1750.0059		
D50plek:	251.31228		

Map ID Direction Distance Elevation		Database	EDR ID Number
28 **SSE** **1/2 - 1 Mile** **Lower**		**MI WELLS**	**MI3000000046497**

Wellid:	81000006715	Import id:	81737607006
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	BOWLING, CHESTER		
Well addr:	1900 W ELLSWORTH		
Well depth:	78		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	388
Const date:	1974-09-17 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	74		
Screen frm:	74		
Screen to:	78		
Swl:	30		
Test depth:	60		
Test hours:	4		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2288956878		
Longitude:	-83.7674641029		
Methd coll:	Interpolation-Map		
Elevation:	872		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	863	Elev dif:	9
Elev miv:	872	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	19		
Pct aq d:	19	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	81
Pct cm d:	81	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:	48	A pct aq2:	27
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	73	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
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:	10
Pct maq 1:	0	Pct cm 1:	90
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:	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:	F		
Athk2:	48		
Horiz Conduct:	13.54174		
Vert Conduct:	.00014		
T2:	650.0035		
D50plek:	55.56061		

29
NNE **MI WELLS** **MI3000000049430**
1/2 - 1 Mile
Higher

Wellid:	81000006709	Import id:	81737606002
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	6
Owner name:	APRILL, T., HILDEBRANDT, H.		
Well addr:	2055 WELCH CT.		
Well depth:	156		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	19
Const date:	1976-07-09 00:00:00.000	Case type:	Unknown
Case dia:	4		

Case depth:	152		
Screen frm:	152		
Screen to:	156		
Swl:	80		
Test depth:	156		
Test hours:	2		
Test rate:	3	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2557472715		
Longitude:	-83.7649477011		
Methd coll:	Interpolation-Map		
Elevation:	930		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	928	Elev dif:	2
Elev miv:	930	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	5		
Pct aq d:	5	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	51
Pct cm d:	51	Pct cm r:	0
Pct pcm:	44	Pct pcm d:	44
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:	4	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	76	A pct aq2:	11
A pct maq2:	0	A pct pcm2:	21
A pct cm2:	68	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:	50	A sc lith2:	Sand
A sc lmod2:	Not Reported	A sc lmaq2:	AQ
A sc lpct2:	50	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:	40	Pct pcm 2:	60
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	20
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	80	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:	76		
Horiz Conduct:	7.89691		
Vert Conduct:	.00015		
T2:	600.1652		
D50plek:	81.58095		

30
SSE **MI WELLS** **MI3000000046538**
1/2 - 1 Mile
Lower

Wellid:	81000006716	Import id:	81737607007
County:	Washtenaw	Township:	Pittsfield
Town range:	03S 06E	Section:	7
Owner name:	HAYWOOD, FORREST		
Well addr:	1750 ELLSWORTH RD.		
Well depth:	73		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	36
Const date:	1969-02-14 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	73		
Screen frm:	69		
Screen to:	73		
Swl:	40		
Test depth:	42		
Test hours:	1		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.2292105336		
Longitude:	-83.764306326		
Methd coll:	Interpolation-Map		
Elevation:	870		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	872	Elev dif:	2
Elev miv:	870	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	52		
Pct aq d:	52	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	27

Pct cm d:	27	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:	33	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	33	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:	Gravel
A sc lmod1:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	25	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	75
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	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:	D		
Hit swl:	T		
Athk2:	33		
Horiz Conduct:	300		
Vert Conduct:	300		
T2:	9900		
D50plek:	506.52182		

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Zipcode	Test Date	LT Sign	Result
48103	4/16/2009		1.6
48103	2/17/2009		1.6
48103	3/18/1999		1.5
48103	9/11/1995		1.5
48103	7/5/1995		1.5
48103	2/3/2007		1.6
48103	11/7/2005		1.6
48103	2/15/2007		1.6
48103	4/10/2006		1.6
48103	4/10/2006		1.6
48103	4/24/2006		1.6
48103	6/3/2006		1.6
48103	2/4/2006		1.6
48103	3/2/2007		1.6
48103	8/18/2007		1.6
48103	4/8/2008		1.6
48103	8/9/1999		1.6
48103	3/6/2009		1.6
48103	8/17/2009		1.6
48103	2/16/2007		1.5
48103	10/7/2006		1.5
48103	7/17/2006		1.5
48103	7/11/2008		1.5
48103	6/13/2001		1.5
48103	3/6/2002		1.5
48103	11/6/2001		1.5
48103	5/21/2005		1.5
48103	3/2/2005		1.5
48103	3/26/2003		1.4
48103	2/28/2004		1.4
48103	2/13/2006		1.4
48103	4/18/2009		1.5
48103	4/25/2009		1.5
48103	5/9/2009		1.5
48103	2/5/2009		1.5
48103	2/5/2009		1.5
48103	3/25/1997		1.4
48103	10/30/1995		1.4
48103	8/24/1995		1.4
48103	4/14/1997		1.4
48103	2/16/1999		1.4
48103	11/29/2007		1.4
48103	5/12/1999		1.4
48103	1/22/2010		1.4
48103	1/19/2010		1.4
48103	6/2/2006		1.4
48103			

AREA RADON INFORMATION

	2/2/2007	1.4
48103	5/5/2007	1.4
48103	2/9/2006	1.4
48103	2/4/2006	1.4
48103	4/17/2006	1.4
48103	5/20/2008	1.4
48103	4/5/2008	1.4
48103	1/28/2006	1.3
48103	2/13/2006	1.3
48103	2/20/2006	1.3
48103	2/13/2006	1.3
48103	2/10/2006	1.3
48103	2/20/1996	1.3
48103	1/15/2003	1.3
48103	5/15/2003	1.3
48103	11/7/2002	1.3
48103	3/30/2004	1.3
48103	12/20/2003	1.3
48103	6/25/2004	1.3
48103	3/14/2009	1.3
48103	2/12/1999	1.2
48103	4/15/1996	1.2
48103	1/31/2003	1.2
48103	4/3/2008	1.2
48103	7/6/2001	1.2
48103	8/28/2002	1.2
48103	8/20/2003	1.2
48103	5/1/2003	1.2
48103	4/25/2005	1.2
48103	2/16/2004	1.2
48103	1/21/2005	1.2
48103	3/1/2005	1.2
48103	2/6/2006	1.2
48103	1/19/2006	1.2
48103	12/12/2006	1.2
48103	2/13/2006	1.2
48103	12/18/1995	1.1
48103	2/7/2003	1.1
48103	2/14/2005	1.1
48103	4/15/2005	1.1
48103	7/5/1995	1.1
48103	11/9/2001	1.1
48103	10/3/2000	1.2
48103	2/2/2009	1.2
48103	2/17/2009	1.2
48103	1/7/2010	1.2
48103	10/24/2007	1.1
48103	3/24/1995	1.1
48103	3/13/1995	1.1
48103	11/4/2004	1.1
48103	3/27/2006	1.1
48103	4/17/2006	1.1
48103	2/13/2006	1.1
48103	2/9/2006	1.1
48103	2/13/2006	1.1
48103	2/8/2006	1.1
48103		

AREA RADON INFORMATION

	6/16/2006	1.1
48103	2/12/2008	1.1
48103	4/4/2003	1.0
48103	11/5/2004	1.0
48103	12/1/2008	1.1
48103	2/17/2009	1.1
48103	2/2/2009	1.1
48103	2/15/1999	1.0
48103	1/14/1995	1.0
48103	8/19/1994	1.0
48103	3/1/2007	1.0
48103	2/4/2006	1.0
48103	4/3/2006	1.0
48103	2/13/2006	1.0
48103	5/26/2009	1.0
48103	1/4/2008	1.0
48103	4/9/2007	1.0
48103	3/15/2008	1.0
48103	9/6/2005	1.9
48103	3/7/2005	1.9
48103	3/4/2006	1.9
48103	4/10/2006	1.9
48103	3/23/2006	1.9
48103	11/5/2001	1.9
48103	4/14/1997	1.9
48103	3/30/1998	1.9
48103	1/24/1996	1.9
48103	6/1/2002	1.9
48103	2/1/2003	1.9
48103	2/7/2003	1.9
48103	11/12/2004	1.9
48103	6/7/1995	1.8
48103	2/8/1999	1.8
48103	8/16/2003	1.8
48103	2/4/2006	1.9
48103	2/20/2006	1.9
48103	2/11/2006	1.9
48103	2/21/2006	1.9
48103	2/1/2006	1.9
48103	5/8/2006	1.9
48103	4/5/2008	1.9
48103	4/8/2008	1.9
48103	12/10/1999	1.9
48103	3/27/2009	1.9
48103	4/21/1995	1.8
48103	3/21/2009	1.8
48103	5/9/2009	1.8
48103	11/12/2009	1.8
48103	11/4/2005	1.8
48103	2/10/2006	1.8
48103	2/9/2006	1.8
48103	2/27/2006	1.8
48103	2/20/2006	1.8
48103	12/16/2006	1.8
48103	3/4/2006	1.7
48103	4/28/2007	1.7
48103		

AREA RADON INFORMATION

	2/16/1999		1.7
48103	11/16/2001		1.7
48103	6/17/2002		1.7
48103	8/11/2003		1.7
48103	10/27/2001		1.7
48103	3/13/2003		1.7
48103	10/29/2002		1.7
48103	2/22/2003		1.7
48103	6/25/2004		1.7
48103	11/3/2004		1.7
48103	3/26/2004		1.7
48103	4/21/2005		1.7
48103	2/15/2005		1.7
48103	2/16/2007		1.7
48103	2/6/2006		1.7
48103	6/27/1995		1.6
48103	2/20/1999		1.6
48103	11/24/2003		1.6
48103	10/27/2001		1.6
48103	12/6/2001		1.6
48103	1/17/2002		1.6
48103	1/30/2004		1.6
48103	5/28/2007		1.6
48103	4/24/2006	<	0.3
48103	3/17/2008	<	0.3
48103	3/3/2007	<	0.3
48103	3/9/2007	<	0.3
48103	3/2/2007	<	0.3
48103	3/25/1997	<	0.3
48103	10/20/2006	<	0.3
48103	2/8/2006	<	0.3
48103	8/25/1995	<	0.3
48103	7/26/2005	<	0.3
48103	7/25/2005	<	0.3
48103	6/6/2005	<	0.3
48103	2/8/2006	<	0.3
48103	2/9/2006	<	0.3
48103	1/16/2004		0.5
48103	2/9/2004		0.5
48103	8/10/1995		0.3
48103	1/13/2004	<	0.3
48103	2/2/2006	<	0.3
48103	1/21/2004	<	0.3
48103	4/9/2004	<	0.3
48103	2/9/2006		0.5
48103	2/13/2006		0.5
48103	4/18/2008		0.5
48103	11/1/2001	<	0.3
48103	5/1/2006	<	0.3
48103	1/30/2006	<	0.3
48103	1/26/2006	<	0.3
48103	1/24/2006	<	0.3
48103	2/14/2006	<	0.3
48103	2/24/2007		0.5
48103	3/13/2003	<	0.3
48103	3/17/2003	<	0.3
48103			

AREA RADON INFORMATION

	4/7/2003	<	0.3
48103	7/24/2002	<	0.3
48103	10/22/2002	<	0.3
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48103	6/12/2008	<	0.3
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48103	3/5/2002	<	0.3
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48103	4/30/2005		0.7
48103	4/25/2005		0.7
48103	12/31/1993		0.9
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48103	9/11/1995		0.9
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48103	8/23/2003		0.9
48103	11/5/2001		0.9
48103	5/22/2003		0.9
48103	2/24/2004		0.6
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48103	2/4/2006		0.7
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AREA RADON INFORMATION

	2/1/2003	0.9
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48103	4/24/2006	0.8
48103	4/5/2008	0.7
48103	8/18/2007	0.7
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48103	12/10/2007	0.8
48103	3/7/2006	0.9
48103	2/20/2006	0.9
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48103	2/20/2006	0.9
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48103	6/5/1999	0.6
48103	3/1/2008	0.8
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48103	3/13/2002	0.7
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48103	3/29/2002	0.6
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48103	9/2/2009	0.9
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48103	5/13/1999	2.8
48103	3/16/1995	2.8
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AREA RADON INFORMATION

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48103	9/6/1994	2.2
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48103	2/26/2009	2.2
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AREA RADON INFORMATION

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48103	2/6/2006	2.2
48103	3/26/2002	2.1
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48103	6/26/2006	3.0
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AREA RADON INFORMATION

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AREA RADON INFORMATION

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48103	2/13/2006		3.5
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48103	9/21/2000	<	0.3
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48103	4/22/2006		3.2
48103	2/15/2006		3.2
48103	2/4/2006		3.2
48103	10/17/2008		3.1
48103	3/15/2008		3.1
48103	3/5/2009		3.4
48103	8/20/2001		3.3
48103	11/16/1996		3.3
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AREA RADON INFORMATION

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48103	2/8/2006		3.3
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48103	12/10/1994		3.2
48103	1/24/2001		3.2
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48103	2/4/2009		3.2
48103	8/3/1998		3.1
48103	2/15/1999		3.1
48103	10/19/1998		3.0
48103	2/18/1999		3.0
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48103	2/24/2003		3.9
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48103	3/28/2003		3.9
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48103	11/29/1995		3.7
48103	10/14/1995		3.7
48103	11/2/2002		3.1
48103	8/17/2009	<	0.3
48103	2/2/2004		3.9
48103	1/24/2005		3.9
48103	11/13/2004		3.9
48103	10/16/2006		3.9
48103	1/28/2003		3.7
48103	10/17/2005		3.7
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48103	9/6/2005		3.7
48103	10/31/2005		3.7
48103	2/15/2005		3.0
48103	3/7/2005		3.0
48103	2/6/2004		3.0
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48103			

AREA RADON INFORMATION

	3/30/2006		3.9
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48103	1/18/1995		3.9
48103	9/10/1999		3.9
48103	1/10/2000		3.9
48103	4/9/2007		3.7
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48103	3/20/2008		3.7
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48103	4/3/2009		3.3
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48103	11/2/2009	<	0.3
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48103	2/26/2009		3.9
48103	6/9/2007		3.7
48103	12/14/2007		3.7
48103	2/26/2007		3.7
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48103	7/27/2007		3.7
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48103	12/13/2001		3.8
48103	12/1/2003		3.8
48103	8/2/2005		3.8
48103	5/14/2005		3.8
48103	11/5/2001		3.6
48103	4/14/1997		3.2
48103	2/27/2009	<	0.3
48103	2/27/2009	<	0.3
48103	2/26/2009	<	0.3
48103	1/14/2003		7.6
48103	2/14/2004		7.6
48103	3/3/2007		7.6
48103	3/27/2009		7.3
48103	12/14/1998		7.2
48103	9/26/2006		7.2
48103	2/4/2006		7.2
48103	9/2/2008		6.9
48103			

AREA RADON INFORMATION

	1/14/2000	6.9
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48103	11/28/1997	6.8
48103	4/16/2005	6.6
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48103	1/24/2009	7.2
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48103	1/28/2006	6.2
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48103	12/6/2005	6.1
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AREA RADON INFORMATION

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48103	3/13/2006	4.9
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48103	4/19/2004	5.9
48103	12/26/2009	5.5
48103	2/28/2003	5.1
48103	6/1/2002	5.1
48103	7/31/2009	4.8
48103	12/3/2008	4.8
48103	4/14/1997	4.7
48103	10/4/1995	4.7
48103	2/11/2006	5.9
48103		

AREA RADON INFORMATION

	10/24/2007	5.9
48103	9/15/2008	5.9
48103	7/1/1999	5.9
48103	5/5/1999	5.9
48103	3/27/2000	5.9
48103	1/27/2000	5.9
48103	2/20/2009	5.9
48103	11/16/2009	5.9
48103	2/17/2009	5.9
48103	4/6/2009	5.5
48103	12/8/2008	5.5
48103	11/24/1997	5.4
48103	11/24/1997	5.4
48103	1/23/2003	5.4
48103	5/9/2003	5.4
48103	12/22/2003	5.4
48103	1/28/2006	5.1
48103	4/9/2007	5.1
48103	2/20/1995	5.1
48103	1/13/2003	4.7
48103	8/7/2003	4.7
48103	3/28/2005	4.7
48103	1/29/2003	5.8
48103	2/15/2005	5.8
48103	4/27/2006	5.8
48103	2/14/2006	5.4
48103	2/13/2006	5.4
48103	3/22/2007	5.4
48103	10/30/1995	5.0
48103	8/15/1997	5.0
48103	2/12/1999	5.0
48103	2/7/2003	5.0
48103	2/27/2003	5.0
48103	10/29/2001	5.0
48103	1/20/2003	5.0
48103	1/25/2003	4.8
48103	11/5/2002	4.8
48103	4/2/2003	4.8
48103	11/1/2001	4.8
48103	7/5/2005	4.8
48103	2/20/2006	4.8
48103	3/27/2009	5.4
48103	1/24/2009	5.4
48103	1/24/2009	5.4
48103	5/1/1997	5.3
48103	1/5/2002	5.3
48103	2/2/2007	5.0
48103	3/14/2006	5.0
48103	1/28/2006	5.0
48103	2/15/2000	4.7
48103	11/2/2009	4.7
48103	8/7/2009	4.7
48103	2/5/2002	5.7
48103	4/23/2005	5.7
48103	6/22/2006	5.7
48103	8/2/2004	5.3
48103		

AREA RADON INFORMATION

	1/28/2006	5.3
48103	2/13/2006	5.3
48103	2/11/2006	5.3
48103	6/22/2001	5.0
48103	8/25/2006	4.7
48103	4/18/2008	4.7
48103	5/22/2009	4.7
48103	2/15/2000	4.7
48103	4/21/2008	5.7
48103	9/24/2007	5.7
48103	12/10/2005	5.3
48103	6/9/2008	5.3
48103	10/2/2008	5.3
48103	2/21/2009	5.3
48103	3/1/1999	4.9
48103	5/20/1997	4.9
48103	11/5/2002	4.9
48103	1/15/2002	4.9
48103	2/3/2003	4.9
48103	4/9/2002	4.9
48103	4/30/2004	4.9
48103	1/18/2007	4.8
48103	3/21/2008	4.8
48103	2/8/1999	5.6
48103	2/16/1998	5.6
48103	10/27/2001	5.6
48103	12/26/2009	5.3
48103	3/5/1998	5.2
48103	7/20/1995	5.2
48103	2/3/2003	5.2
48103	4/11/2003	5.2
48103	6/1/2002	5.2
48103	12/22/2003	5.2
48103	7/5/2005	5.2
48103	12/19/1996	7.9
48103	3/21/2002	7.9
48103	11/1/2002	7.9
48103	1/18/2002	7.9
48103	3/5/2007	7.9
48103	10/24/2007	7.5
48103	5/2/2000	7.5
48103	8/21/2000	7.5
48103	9/29/1999	7.5
48103	7/13/2009	7.5
48103	1/21/2002	7.4
48103	1/16/2003	7.4
48103	8/19/2005	7.4
48103	2/18/2005	7.4
48103	2/5/2007	7.1
48103	8/9/2007	7.1
48103	2/17/2009	7.1
48103	6/27/1995	7.0
48103	3/5/1999	7.0
48103	9/1/1998	6.7
48103	9/29/1997	6.7
48103	1/29/2003	6.7
48103		

AREA RADON INFORMATION

	11/26/2001	6.7
48103	2/13/2003	6.7
48103	2/2/2007	6.7
48103	4/13/2009	7.9
48103	4/3/2006	7.8
48103	2/13/2006	7.4
48103	12/11/2009	7.4
48103	9/6/1997	7.3
48103	2/20/2006	7.0
48103	5/22/2008	6.7
48103	2/7/2000	6.7
48103	7/2/2001	6.7
48103	2/6/2009	6.7
48103	11/21/2009	6.7
48103	4/3/1999	7.8
48103	2/10/2000	7.8
48103	1/24/2009	7.8
48103	1/26/2009	7.8
48103	2/2/2007	7.7
48103	5/7/2003	7.3
48103	10/26/2002	7.3
48103	2/11/2003	7.3
48103	2/15/2006	7.3
48103	5/4/2006	7.3
48103	1/21/1995	7.3
48103	12/3/2001	6.9
48103	2/28/2002	6.9
48103	1/17/2009	2.0
48103	3/5/2009	2.0
48103	5/28/1994	25.5
48103	2/15/2006	25.3
48103	2/20/2006	23.8
48103	12/11/2002	23.6
48103	4/2/1997	23.4
48103	3/10/2009	18.3
48103	5/8/2003	18.2
48103	6/6/2002	18.1
48103	12/9/2002	17.6
48103	7/8/2003	2.0
48103	7/18/2003	2.0
48103	11/12/2001	2.0
48103	10/6/2003	2.0
48103	4/9/1997	59.5
48103	2/7/2006	49.8
48103	1/8/2007	49.2
48103	3/11/1996	48.9
48103	6/27/2008	48.5
48103	3/18/1999	44.8
48103	4/3/2006	42.1
48103	1/27/2009	23.1
48103	11/1/2004	22.6
48103	10/14/1996	22.2
48103	2/6/2009	21.9
48103	2/10/2003	17.4
48103	4/15/2006	17.1
48103	10/29/2001	16.9
48103		

AREA RADON INFORMATION

	4/3/2009	16.9
48103	11/20/2004	16.8
48103	1/10/2003	16.7
48103	2/20/1999	16.3
48103	7/31/2006	16.1
48103	10/22/2007	16.1
48103	1/22/2008	16.0
48103	2/9/2009	16.0
48103	12/7/2005	15.9
48103	11/14/2002	15.7
48103	12/1/1997	14.1
48103	1/5/2002	14.1
48103	10/21/2004	14.1
48103	12/24/2005	14.1
48103	4/3/2006	14.0
48103	4/7/2008	14.0
48103	2/12/2000	14.0
48103	12/18/1996	13.9
48103	2/7/2003	13.9
48103	1/17/1996	13.7
48103	2/11/1995	15.4
48103	10/28/2000	15.4
48103	7/20/2004	15.1
48103	5/18/2007	15.1
48103	3/5/2009	15.1
48103	3/23/2004	15.0
48103	6/27/2003	14.9
48103	11/6/2001	14.7
48103	10/15/2004	14.7
48103	11/24/2007	14.7
48103	2/26/2009	14.6
48103	1/23/2001	14.5
48103	10/29/2001	14.3
48103	2/21/2003	14.2
48103	6/5/2004	14.2
48103	2/21/2008	13.6
48103	3/29/1999	13.5
48103	4/30/2005	13.5
48103	2/7/2006	13.5
48103	2/16/2007	13.5
48103	10/26/1996	13.4
48103	9/12/1997	13.4
48103	6/11/1999	13.4
48103	12/23/2002	13.3
48103	10/29/2001	13.2
48103	2/18/2005	13.2
48103	2/11/1995	13.1
48103	2/5/1996	13.0
48103	4/27/2004	13.0
48103	3/3/2006	13.0
48103	7/25/2003	12.9
48103	1/17/2004	12.9
48103	10/30/2001	12.8
48103	1/18/2003	12.7
48103	2/6/2006	12.7
48103	3/2/2009	12.6
48103		

AREA RADON INFORMATION

	9/13/2006	12.5
48103	4/17/1998	12.4
48103	10/22/2001	12.4
48103	11/9/2001	12.4
48103	2/16/1995	9.0
48103	11/12/2009	9.0
48103	3/12/2005	8.9
48103	4/16/2004	8.9
48103	2/9/2007	8.9
48103	8/28/1999	8.9
48103	11/27/2009	12.4
48103	11/6/1995	12.2
48103	1/21/2003	11.1
48103	4/28/2001	11.1
48103	1/20/2003	11.0
48103	5/12/1999	10.2
48103	1/17/2002	10.1
48103	5/3/2004	10.1
48103	10/26/2004	10.1
48103	2/26/2004	10.1
48103	4/25/2006	10.1
48103	3/14/2006	10.1
48103	6/18/1999	10.1
48103	6/3/1995	10.0
48103	2/28/2003	10.0
48103	10/13/1998	8.0
48103	3/22/1996	12.0
48103	3/6/2009	12.0
48103	2/12/1999	11.9
48103	2/2/2009	11.9
48103	11/16/2006	10.9
48103	11/13/2002	10.8
48103	1/21/2003	10.8
48103	3/17/2008	10.8
48103	3/14/2000	10.8
48103	7/12/1997	10.7
48103	10/30/1997	10.7
48103	2/22/1999	10.7
48103	5/16/2009	10.0
48103	12/6/2001	9.9
48103	2/2/2007	9.9
48103	6/6/1994	8.9
48103	6/25/2009	8.9
48103	3/12/2003	8.8
48103	2/25/2006	8.8
48103	2/2/2007	8.8
48103	2/15/2000	8.8
48103	2/13/2006	11.8
48103	2/3/2006	11.8
48103	4/7/2008	11.8
48103	11/6/2001	11.7
48103	11/27/2004	11.7
48103	1/30/2006	11.7
48103	2/6/2009	11.7
48103	1/24/2005	11.6
48103	4/7/2003	10.7
48103		

AREA RADON INFORMATION

	10/29/2001	10.7
48103	4/5/2004	10.6
48103	4/7/2006	10.6
48103	3/25/1999	10.5
48103	12/1/2009	9.8
48103	7/23/2002	9.7
48103	7/21/2004	9.7
48103	4/3/2006	8.5
48103	2/20/2006	8.5
48103	3/30/2006	8.5
48103	4/10/2006	8.5
48103	9/24/2007	8.5
48103	1/21/2003	8.4
48103	11/5/2004	8.4
48103	2/27/2006	11.6
48103	11/16/2007	11.6
48103	10/29/2007	11.4
48103	6/18/1999	11.4
48103	7/24/2004	10.5
48103	11/16/2005	10.5
48103	6/5/2006	10.5
48103	2/21/2009	10.5
48103	3/30/2004	10.4
48103	2/27/2006	9.7
48103	2/7/2006	9.7
48103	1/6/2006	9.6
48103	10/2/2007	9.6
48103	2/27/2006	8.4
48103	5/1/2006	8.4
48103	4/4/2009	8.4
48103	2/22/1999	8.3
48103	3/30/2004	8.3
48103	5/15/2008	11.3
48103	3/15/1996	11.2
48103	2/16/2005	11.2
48103	2/27/2006	11.2
48103	2/13/2009	10.4
48103	8/30/2006	10.3
48103	10/10/2007	10.3
48103	11/28/1998	10.2
48103	3/21/2003	10.2
48103	12/1/2003	10.2
48103	5/5/1997	9.5
48103	2/11/2002	9.4
48103	2/28/2003	8.7
48103	6/18/2004	8.7
48103	12/22/2006	8.7
48103	9/13/2008	8.7
48103	11/29/1999	8.7
48103	12/9/2002	2.1
48103	1/12/2005	2.1
48103	3/7/2005	2.1
48103	3/11/2004	2.1
48103	4/16/2005	2.0
48103	11/4/2005	2.0
48103	9/6/2005	2.0
48103		

AREA RADON INFORMATION

	4/28/2007	9.4
48103	4/4/2003	9.3
48103	8/13/1999	8.2
48103	2/2/2009	8.2
48103	4/17/2002	8.1
48103	2/17/2006	8.1
48103	3/18/2005	2.1
48103	3/4/2006	2.1
48103	1/28/2006	2.1
48103	3/23/2006	2.0
48103	2/8/2006	2.0
48103	3/31/2006	2.0
48103	11/16/1995	9.2
48103	4/8/1997	9.2
48103	7/28/2004	9.2
48103	7/12/1997	9.1
48103	3/22/2008	8.3
48103	1/31/1995	8.3
48103	2/22/2003	8.2
48103	4/8/2002	8.2
48103	4/5/2004	8.2
48103	12/9/2004	8.2
48103	2/27/2006	8.2
48103	5/8/2006	8.2
48103	2/27/2006	2.1
48103	5/22/2009	2.1
48103	5/22/2006	2.0
48103	2/18/2000	9.1
48103	2/3/2009	9.1
48103	8/26/1995	9.0
48103	10/27/2001	9.0
48103	4/22/2002	9.0
48103	7/17/2006	9.0
48103	9/6/2005	8.6
48103	4/15/1999	8.6
48103	12/1/2000	8.6
48103	11/16/2009	8.6
48103	8/27/2001	8.5
48103	3/28/2008	2.1
48103	11/30/1994	2.1
48103	3/20/2008	2.0
48103	10/25/2002	21.6
48103	1/13/2003	20.9
48103	6/18/2001	30.6
48103	6/1/1998	20.2
48103	1/13/2003	20.0
48103	12/10/2002	19.6
48103	8/17/2009	2.1
48103	6/9/2009	2.1
48103	3/5/2009	2.1
48103	1/9/2009	2.0
48103	1/18/2002	28.6
48103	5/28/1994	26.7
48103	2/20/2009	19.2
48103	4/3/2009	19.1
48103	5/21/2003	18.7
48103		

AREA RADON INFORMATION

	4/10/2006	18.7
48103	2/9/2009	18.7
48103	6/5/2009	4.5
48103	2/6/2009	4.5
48103	2/21/2009	4.5
48103	3/6/2009	4.5
48103	2/2/2009	4.5
48103	10/20/1997	4.4
48103	7/21/2003	4.4
48103	2/22/2007	4.3
48103	2/2/2006	4.3
48103	2/10/2000	4.2
48103	2/11/2009	4.2
48103	2/14/2009	4.2
48103	2/21/2009	4.2
48103	3/20/2009	4.2
48103	5/30/2003	4.0
48103	2/7/2003	4.0
48103	8/28/2004	4.0
48103	1/28/2002	4.4
48103	2/15/2005	4.4
48103	4/12/2004	4.4
48103	11/7/2005	4.4
48103	5/7/2009	4.3
48103	9/24/2007	4.3
48103	3/2/1998	4.1
48103	10/25/2001	4.1
48103	12/5/2001	4.1
48103	11/3/2001	4.1
48103	6/1/2002	4.1
48103	2/7/2003	4.1
48103	2/13/2006	4.0
48103	3/6/2006	4.0
48103	5/7/2009	4.0
48103	7/6/2007	4.6
48103	5/22/2006	4.4
48103	1/28/2006	4.4
48103	2/14/2006	4.4
48103	7/20/2007	4.4
48103	1/28/2000	4.4
48103	1/11/2000	4.4
48103	1/24/2009	4.3
48103	3/16/2009	4.3
48103	11/24/2009	4.3
48103	4/30/2003	4.1
48103	2/20/2006	4.1
48103	12/16/2006	4.1
48103	6/22/2006	4.1
48103	1/18/2010	4.6
48103	2/21/2009	4.6
48103	2/17/2009	4.6
48103	5/14/1997	4.5
48103	4/6/1998	4.5
48103	10/30/2001	4.5
48103	1/31/1994	4.4
48103	3/27/2009	4.4
48103		

AREA RADON INFORMATION

	3/25/2009	4.4
48103	8/25/2003	4.2
48103	10/30/2002	4.2
48103	12/13/2002	4.2
48103	3/14/2003	4.2
48103	3/28/2003	4.2
48103	5/8/2006	4.2
48103	1/26/2006	4.1
48103	2/13/2006	4.1
48103	5/14/2009	4.1
48103	3/9/2007	4.1
48103	3/31/2008	4.1
48103	11/8/2001	4.5
48103	2/6/2007	4.5
48103	4/22/2006	4.5
48103	1/28/2006	4.5
48103	3/13/2006	4.5
48103	11/6/2006	4.5
48103	7/16/2002	4.3
48103	1/17/2002	4.3
48103	10/27/2001	4.3
48103	2/21/2006	4.2
48103	2/13/2006	4.2
48103	7/27/2001	4.1
48103	2/7/2009	4.1
48103	2/6/2009	4.1
48103	5/5/1997	4.0
48103	4/18/1997	4.0
48103	2/8/2006	4.5
48103	4/4/2000	4.5

Federal EPA Radon Zone for WASHTENAW County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 48103

Number of sites tested: 25

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.768 pCi/L	72%	24%	4%

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

GEOLOGIC INFORMATION

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

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation 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 Wellogic, the Michigan Department of Environmental Quality Statewide Groundwater Database (SGWD). Wellogic 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 IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

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

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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Crest Street Property

CREST ST

Ann Arbor, MI 48103

Inquiry Number: 5369404.4

July 23, 2018

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/23/18

Site Name:	Client Name:
Crest Street Property	ECT
CREST ST	3399 Veterans Drive
Ann Arbor, MI 48103	Traverse City, MI 49684
EDR Inquiry # 5369404.4	Contact: Ryan Higuchi

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ECT were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	RH-07232018	**Latitude:**	42.242471 42° 14' 33" North
Project:	Crest Street Property	**Longitude:**	-83.771915 -83° 46' 19" West
		UTM Zone:	Zone 17 North
		UTM X Meters:	271301.43
		UTM Y Meters:	4680418.67
		Elevation:	917.99' above sea level

Maps Provided:

2014
1983
1973, 1975
1965, 1967
1908
1906
1904

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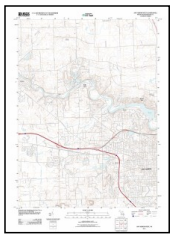
Topo Sheet Key

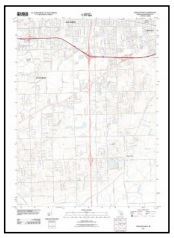
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2014 Source Sheets



Ann Arbor West
2014
7.5-minute, 24000

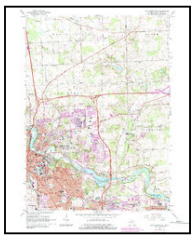
Ann Arbor East
2014
7.5-minute, 24000



Ypsilanti West
2014
7.5-minute, 24000

Saline
2014
7.5-minute, 24000

1983 Source Sheets



Ann Arbor East
1983
7.5-minute, 24000
Aerial Photo Revised 1982

Ann Arbor West
1983
7.5-minute, 24000
Aerial Photo Revised 1982

Ypsilanti West
1983
7.5-minute, 24000
Aerial Photo Revised 1965

Saline
1983
7.5-minute, 24000
Aerial Photo Revised 1982

1973, 1975 Source Sheets

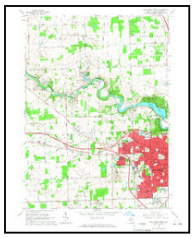
Ann Arbor East
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Ypsilanti West
1973
7.5-minute, 24000
Aerial Photo Revised 1973

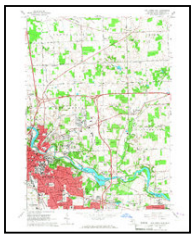
Ann Arbor West
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Saline
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1965, 1967 Source Sheets



Ann Arbor West
1965
7.5-minute, 24000
Aerial Photo Revised 1964



Ann Arbor East
1965
7.5-minute, 24000
Aerial Photo Revised 1964

Ypsilanti West
1967
7.5-minute, 24000
Aerial Photo Revised 1965

Saline
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1908 Source Sheets

Ann Arbor
1908
30-minute, 125000

1906 Source Sheets

Ypsilanti
1906
15-minute, 62500

Dexter
1906
15-minute, 62500

Saline
1906
15-minute, 62500

South Lyon
1906
15-minute, 62500

1904 Source Sheets

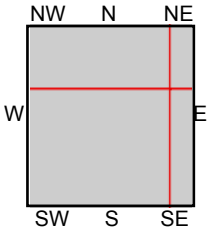
Ann Arbor
1904
30-minute, 125000

Historical Topo Map

2014

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



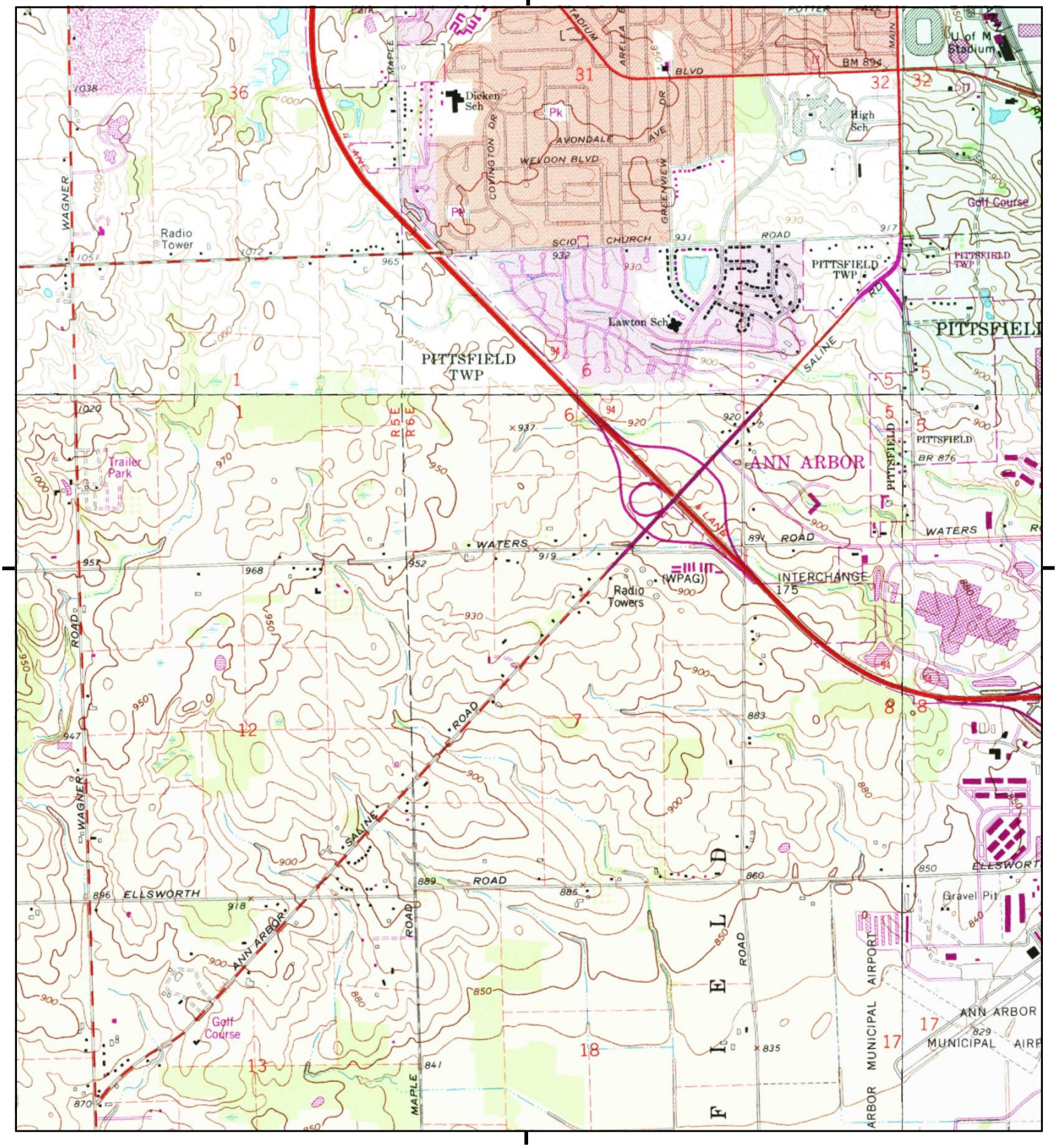
TP, Saline, 2014, 7.5-minute
NE, Ann Arbor East, 2014, 7.5-minute
SE, Ypsilanti West, 2014, 7.5-minute
NW, Ann Arbor West, 2014, 7.5-minute

SITE NAME: Crest Street Property
ADDRESS: CREST ST
Ann Arbor, MI 48103
CLIENT: ECT

N

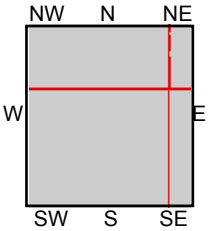
Historical Topo Map

1983



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



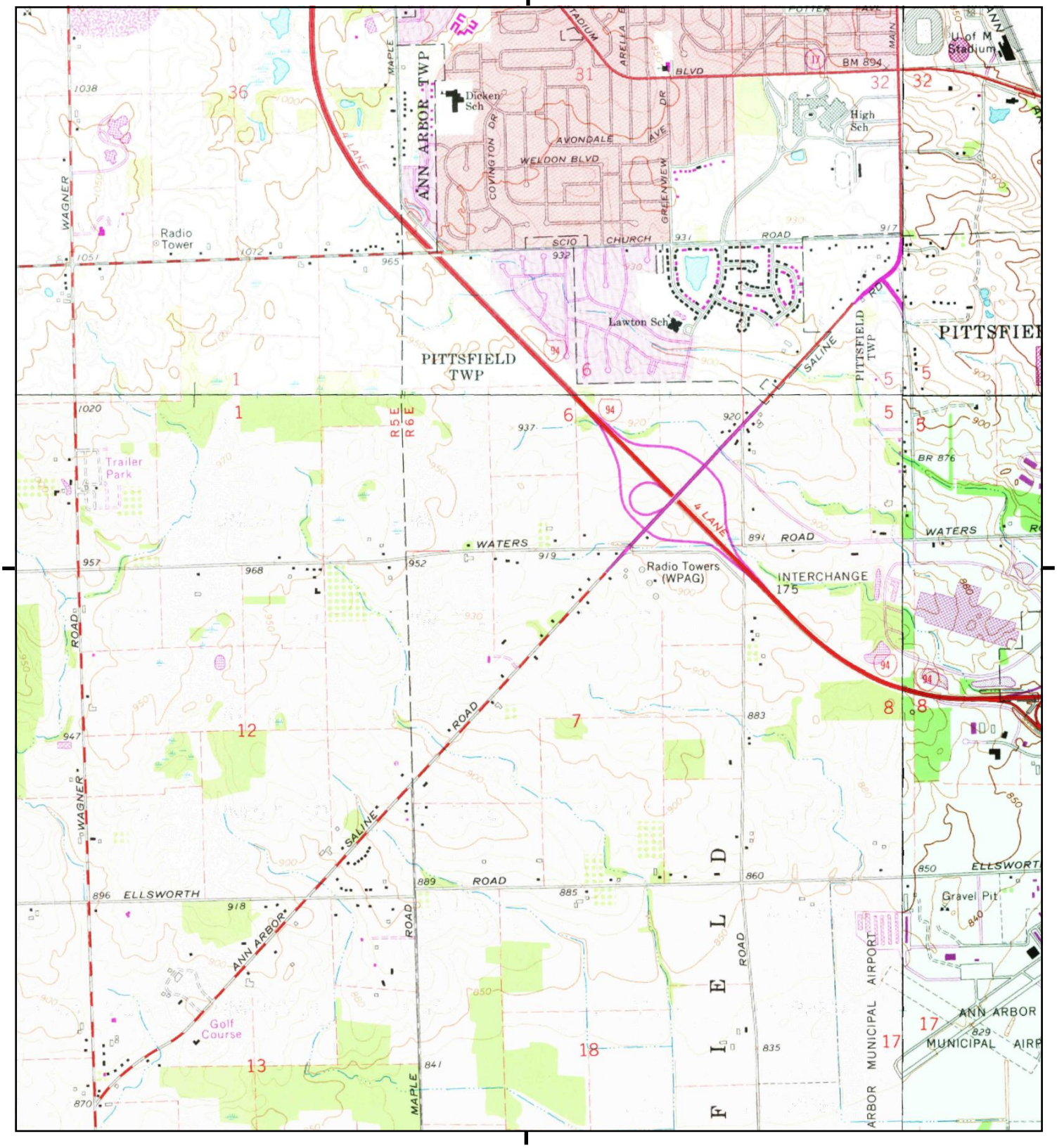
TP, Saline, 1983, 7.5-minute
NE, Ann Arbor East, 1983, 7.5-minute
SE, Ypsilanti West, 1983, 7.5-minute
NW, Ann Arbor West, 1983, 7.5-minute

SITE NAME: Crest Street Property
ADDRESS: CREST ST
Ann Arbor, MI 48103
CLIENT: ECT

N

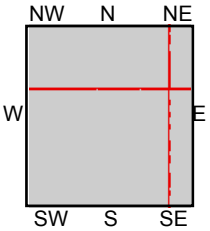
Historical Topo Map

1973, 1975



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



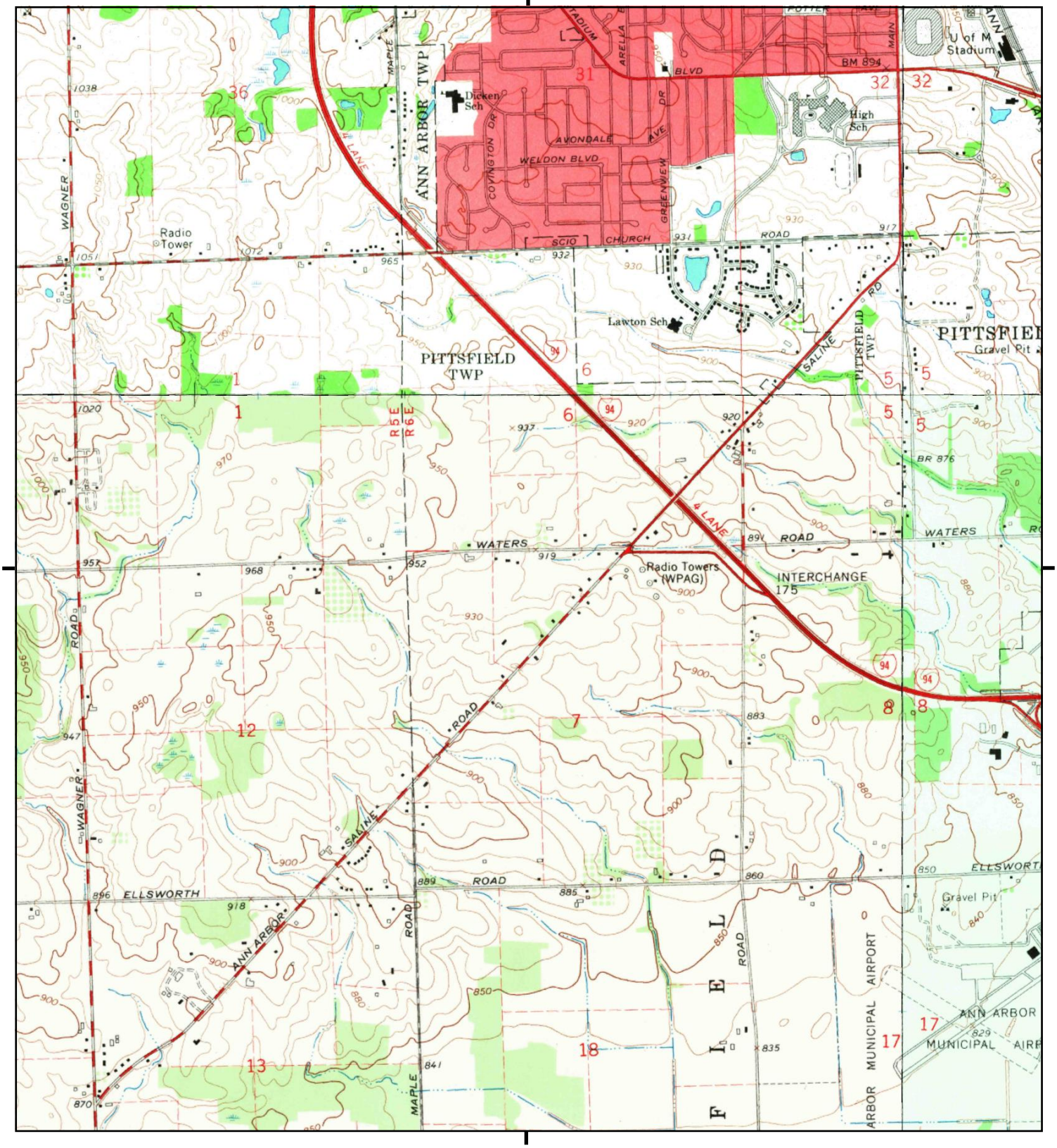
TP, Saline, 1975, 7.5-minute
NE, Ann Arbor East, 1973, 7.5-minute
SE, Ypsilanti West, 1973, 7.5-minute
NW, Ann Arbor West, 1975, 7.5-minute

SITE NAME: Crest Street Property
ADDRESS: CREST ST
Ann Arbor, MI 48103
CLIENT: ECT

N

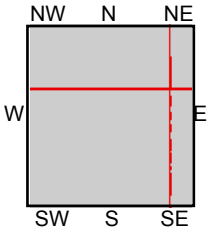
Historical Topo Map

1965, 1967



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



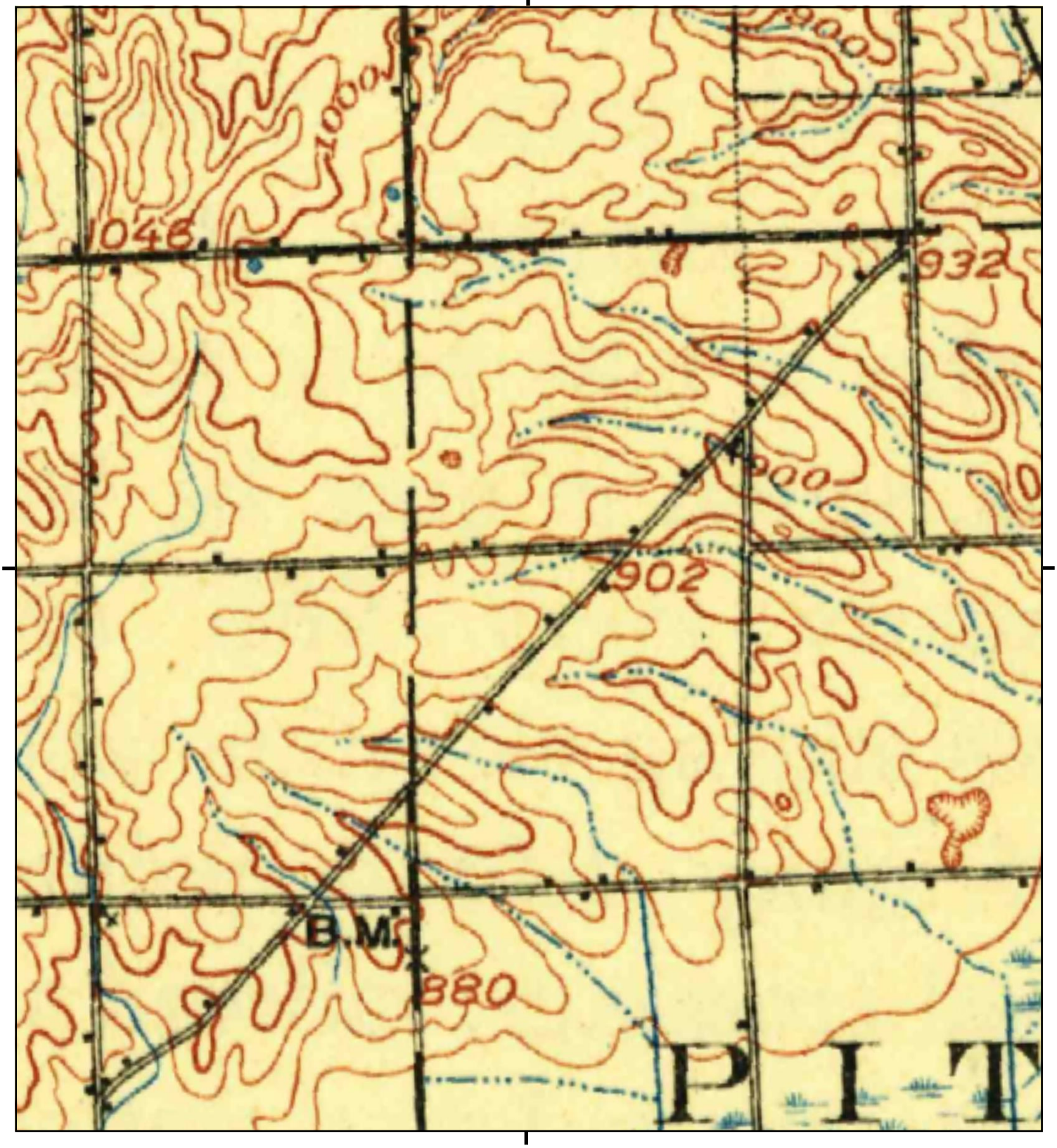
TP, Saline, 1967, 7.5-minute
NE, Ann Arbor East, 1965, 7.5-minute
SE, Ypsilanti West, 1967, 7.5-minute
NW, Ann Arbor West, 1965, 7.5-minute

SITE NAME: Crest Street Property
ADDRESS: CREST ST
Ann Arbor, MI 48103
CLIENT: ECT

N

Historical Topo Map

1908



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

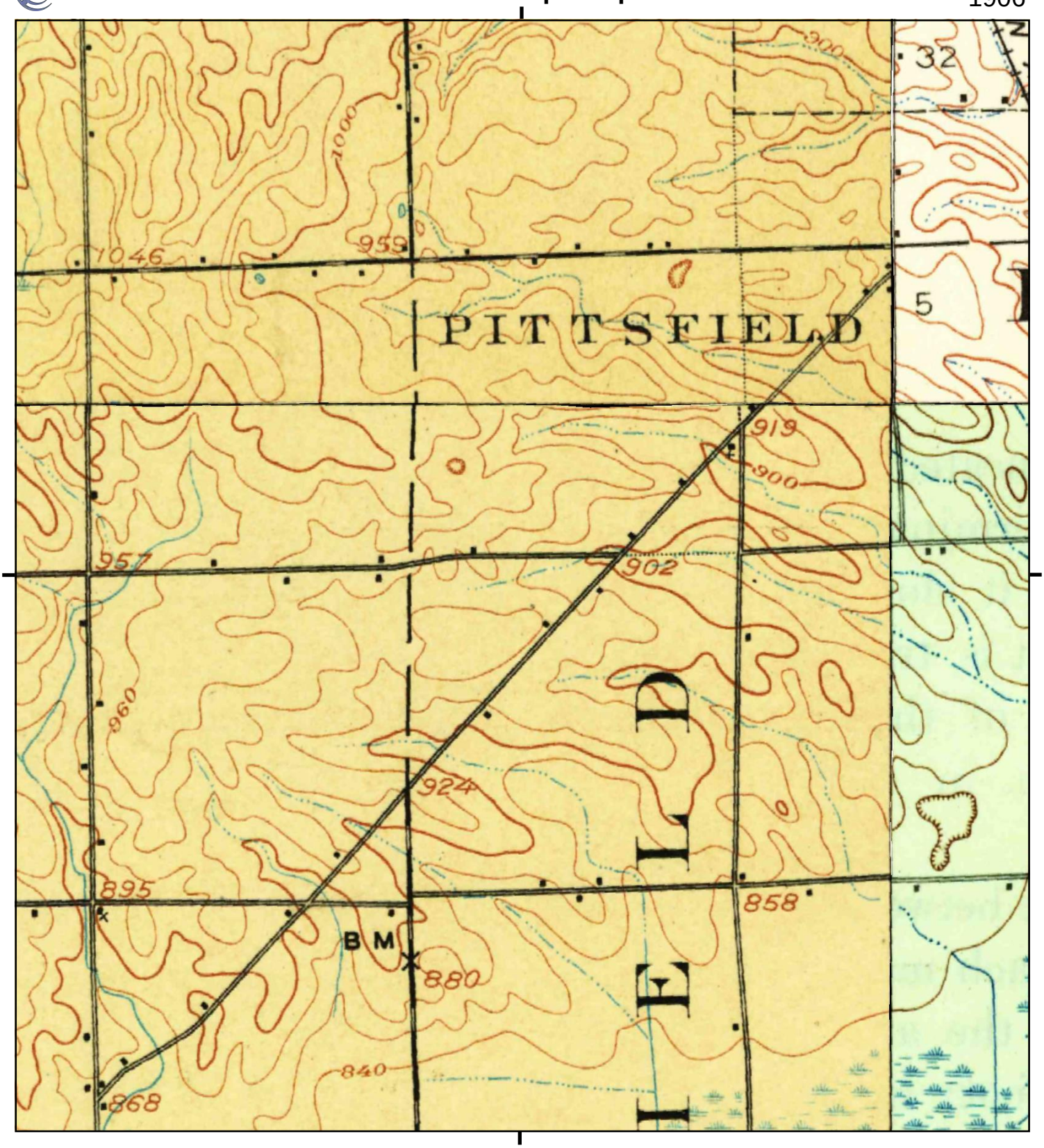
TP, Ann Arbor, 1908, 30-minute

SITE NAME: Crest Street Property
ADDRESS: CREST ST
Ann Arbor, MI 48103
CLIENT: ECT

N

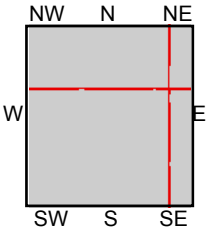
Historical Topo Map

1906



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



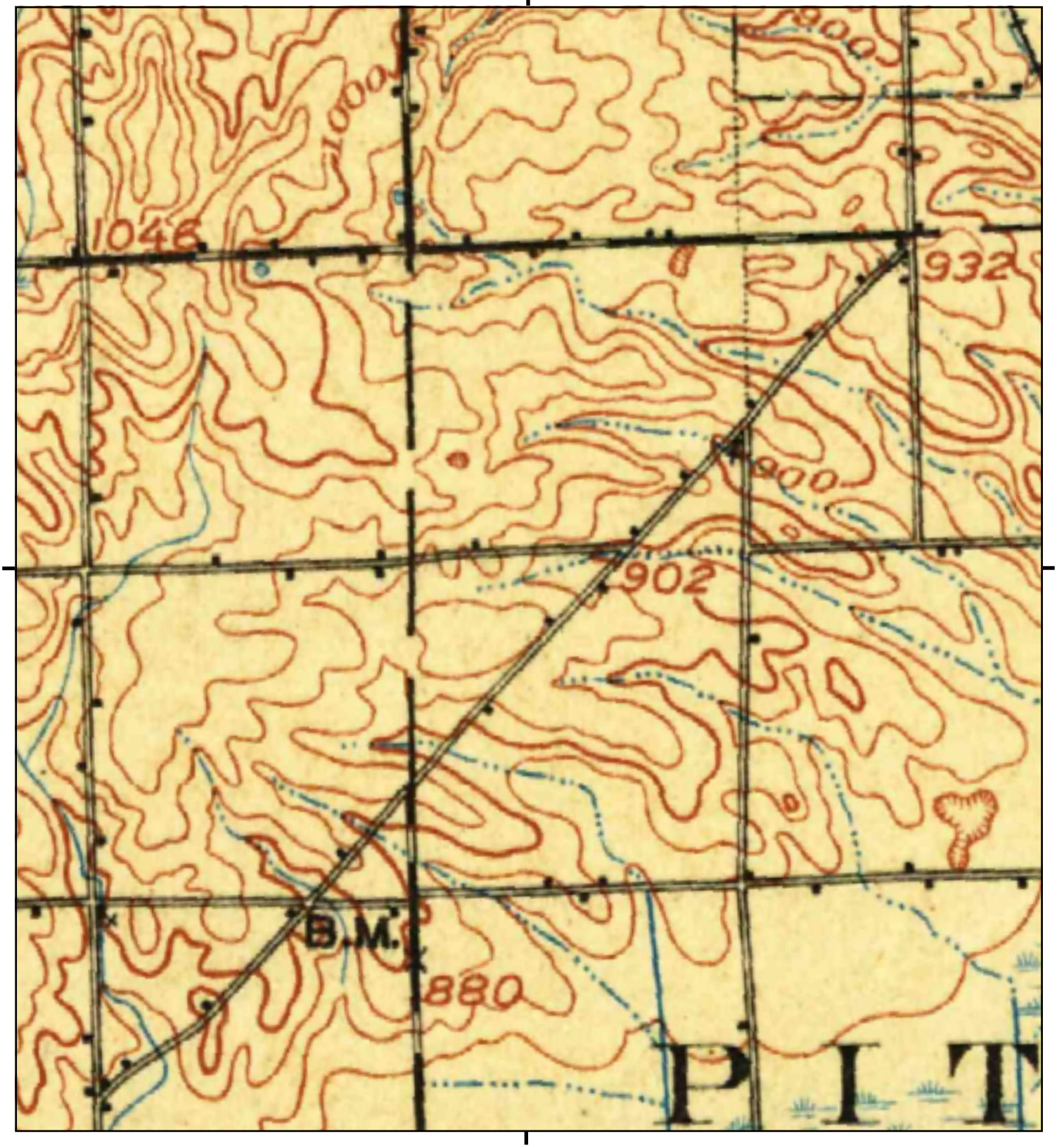
TP, Saline, 1906, 15-minute
NE, South Lyon, 1906, 15-minute
SE, Ypsilanti, 1906, 15-minute
NW, Dexter, 1906, 15-minute

SITE NAME: Crest Street Property
ADDRESS: CREST ST
Ann Arbor, MI 48103
CLIENT: ECT

N

Historical Topo Map

1904



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ann Arbor, 1904, 30-minute

SITE NAME: Crest Street Property
ADDRESS: CREST ST
Ann Arbor, MI 48103
CLIENT: ECT

N

Crest Street Property

CREST ST

Ann Arbor, MI 48103

Inquiry Number: 5369404.8

July 24, 2018

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/24/18

Site Name:

Crest Street Property
CREST ST
Ann Arbor, MI 48103
EDR Inquiry # 5369404.8

Client Name:

ECT
3399 Veterans Drive
Traverse City, MI 49684
Contact: Ryan Higuchi

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

Search Results:

Year	***Scale***	***Details***	***Source***
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1992	1"=500'	Acquisition Date: April 28, 1992	USGS/DOQQ
1987	1"=500'	Flight Date: June 05, 1987	USGS
1983	1"=500'	Flight Date: May 10, 1983	USGS
1978	1"=500'	Flight Date: June 28, 1978	USDA
1973	1"=500'	Flight Date: December 01, 1973	USGS
1969	1"=500'	Flight Date: March 19, 1969	USDA
1961	1"=500'	Flight Date: May 10, 1961	DTE
1955	1"=500'	Flight Date: September 06, 1955	USGS
1949	1"=500'	Flight Date: April 29, 1949	DTE
1940	1"=500'	Flight Date: October 10, 1940	USGS
1937	1"=500'	Flight Date: July 05, 1937	USGS

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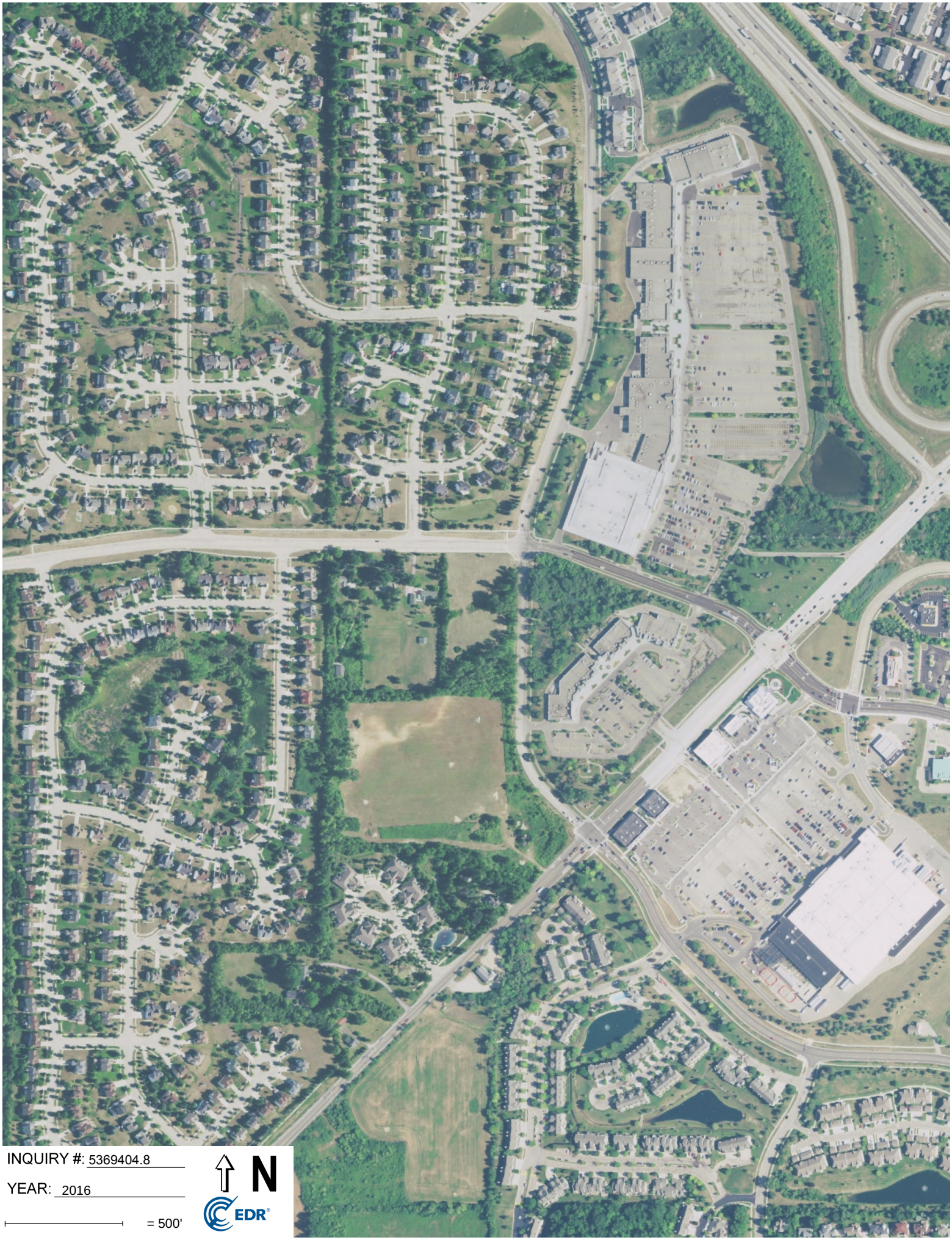


INQUIRY #: 5369404.8

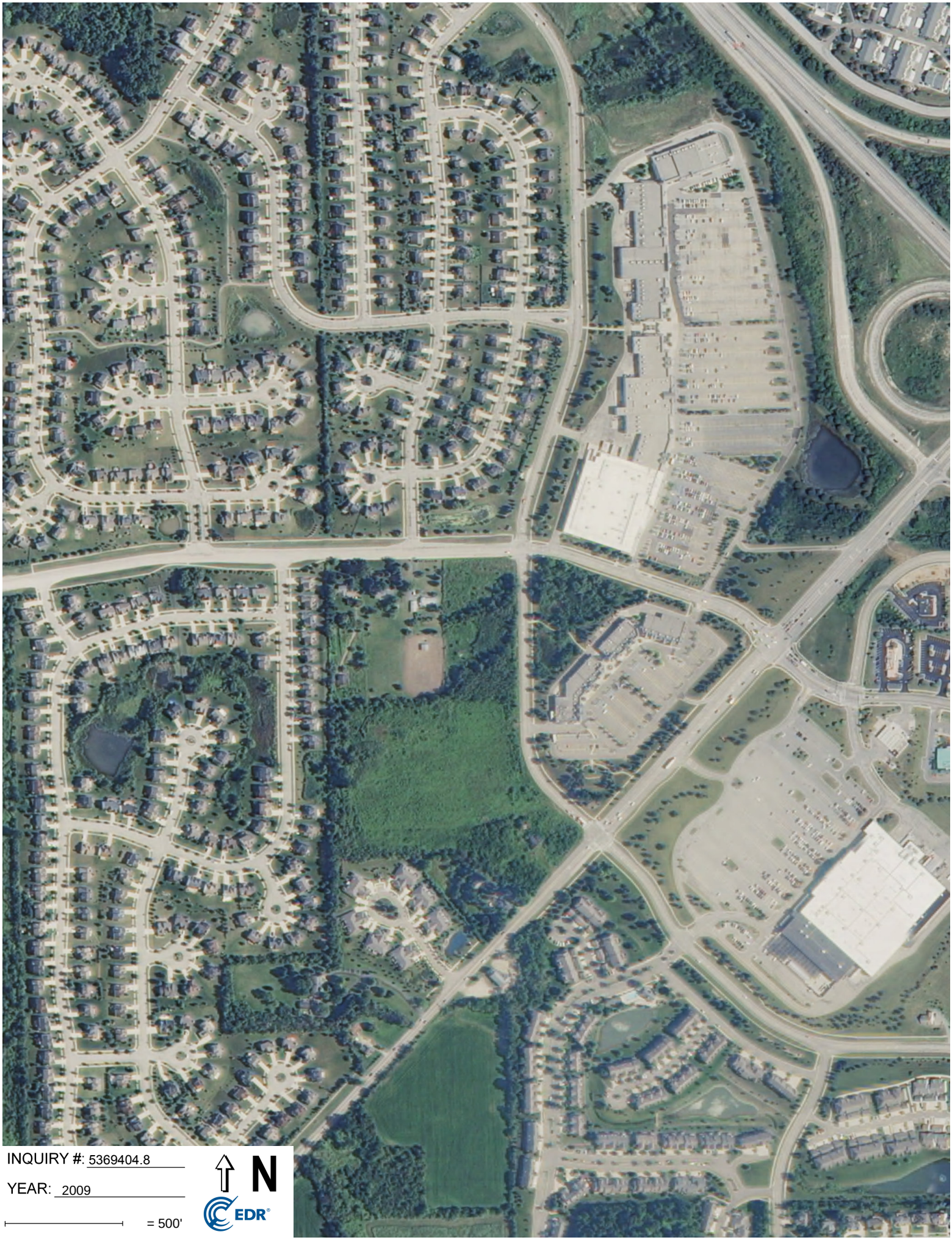
YEAR: 2016

= 500'

N

EDR

INQUIRY #: 5369404.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5369404.8
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 5369404.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 5369404.8

YEAR: 1992

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1987

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1983

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1978

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1973

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1969

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1961

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1955

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1949

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1940

= 500'

N

EDR

INQUIRY #: 5369404.8

YEAR: 1937

= 500'

N

EDR

Crest Street Property
CREST ST
Ann Arbor, MI 48103

Inquiry Number: 5369404.5
July 25, 2018

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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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®

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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.

Year	Target Street	Cross Street	Source
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1987	☐	☐	Polk's City Directory
1982	☐	☐	Polk's City Directory
1977	☐	☐	Polk's City Directory
1972	☐	☐	Polk's City Directory
1967	☐	☐	Polk's City Directory
1964	☐	☐	Polk's City Directory
1960	☐	☐	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

CREST ST
Ann Arbor, MI 48103

Year	CD Image	Source	
CREST ST			
2014	pg A2	EDR Digital Archive	
2010	pg A8	EDR Digital Archive	
2005	pg A14	EDR Digital Archive	
2000	pg A20	EDR Digital Archive	
1995	pg A25	EDR Digital Archive	
1992	pg A30	EDR Digital Archive	
1987	-	Polk's City Directory	Street not listed in Source
1982	-	Polk's City Directory	Street not listed in Source
1977	-	Polk's City Directory	Street not listed in Source
1972	-	Polk's City Directory	Street not listed in Source
1967	-	Polk's City Directory	Street not listed in Source
1964	-	Polk's City Directory	Street not listed in Source
1960	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
W WATERS RD			
1995	pg. A27	EDR Digital Archive	
1992	pg. A32	EDR Digital Archive	
1987	-	Polk's City Directory	Street not listed in Source
1982	-	Polk's City Directory	Street not listed in Source
1977	-	Polk's City Directory	Street not listed in Source
1972	-	Polk's City Directory	Street not listed in Source
1967	-	Polk's City Directory	Street not listed in Source
1964	-	Polk's City Directory	Street not listed in Source
1960	-	Polk's City Directory	Street not listed in Source
WATERS RD			
2014	pg. A4	EDR Digital Archive	
2010	pg. A10	EDR Digital Archive	
2005	pg. A16	EDR Digital Archive	
2000	pg. A22	EDR Digital Archive	

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 2014

110	DAKOTA HOLDINGS LLC
	WISE, DEAN S
111	LASKER-FERRETTI, JANAYA
114	MURSHAK, ISSAK
115	KRZYZOWSKI, RUTH E
116	DOBSON, THERON L
120	OCCUPANT UNKNOWN,
121	LYNN, ELIZABETH I
	RIVENDELL RESOURCES INC
201	PEARSON, HERBERT F
202	GRAMM, ELIZABETH
206	MABRY, DEANNA D
207	JONES, MARK
210	MURPHY, MICHAEL B
211	RANALLI, PAUL J
214	PARSONS, JEFFREY R
215	MICHELSON, NICHOLS D
218	PETERSON, GABRIEL T
219	JONES, IAN M
223	NYRKKANEN, GREG R
224	EGAN, JAMES C
227	THORPE, CATHERINE A
228	HUNTZICKER, DAVID F
229	FORT, ANASTASIA M
230	HAUSMAN, D C
233	OCCUPANT UNKNOWN,
234	KRANKEL, MARY J
237	OCCUPANT UNKNOWN,
240	MALANEY, DANIELLE
241	CHRISTIANSON DESIGNS
	WEICHMANN, KENT L
244	ROBERTS, JEFFREY S
245	ARA LEON RAFAELIAN
	RAFAELIAN, ARA L
248	OCCUPANT UNKNOWN,
249	ALSTON, CATHERINE M
252	MEZA, RANDY A
253	INTIMATIONS
	PATERNOSTER, JAMES L
255	SPARKS, ELIZABETH
256	WHITE, DEREK J
259	OCCUPANT UNKNOWN,
263	KIEFFER, CHARLES H
270	MIKELAIT, MARLA C
272	OBRIEN, COLIN D
322	MARTIN, PRESTOR L
326	GEARHART, COREY M
327	APPLETON, JANIS S
328	BESKY, ANDREA B
414	MAZUR, MICHAEL A

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 2014 (Cont'd)

415	FINKBEINER, ARLENE E
416	TANG, KEVIN
	TARO PROPERTIES LLC
419	HER ELECTRIC
	SCHLOFF, MARJORIE G
420	OCCUPANT UNKNOWN,
421	CHARLES, CEZANNE
422	LUKE, KATHERINE P
424	DOWNS, ELIZABETH A
425	ROBINSON, JASON W
426	BRUNI, GEORGE B
427	DAVIS, PHILIP P
428	TEWARI, MUNEESH
429	LAROCCA, DOMINIC J
431	ABDELNOUR, MARIA
500	BISHAR, MARK C
501	ZINN, JAMES
502	ROBERTS, ELIZABETH F
503	ALFARO, JOSE F
504	NARAGON, LYNN C
506	RIPLEY, DOREN
507	HOLMES, ROBERT B
508	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2014

2000	TARGET STORES INC
2105	DAVISON, MARILYN
2135	BROOKS, LARRY A
2155	BRUSSOLO, ROBERT F
2378	WINFREY, STEPHANIE
2551	GIBSON, DANNY
	KONARS, GERARD I
2555	SCHNEIDER, MELINDA
2566	JICKLING, JULIA W
2570	OCCUPANT UNKNOWN,
2601	A S MANAGEMENT
	COSCIA, ARTHUR F
2740	RAMACHANDRAN, KRISHNA
2750	WAGLEY, JACK D
2761	LEDFORD, JULIE M
2781	OCCUPANT UNKNOWN,
2841	LILLEVAND, CHRISTINE E
2843	HOLLOWELL JOHN & ASSOCIATES
2852	OCCUPANT UNKNOWN,
2860	PAYNE, MONTGOMERY
2965	STILLWATERS FARM
	STRADER, RICHARD B
2977	SPEAR, LAURA A
3001	TAYLOR CHRISTY
3099	OCCUPANT UNKNOWN,
	ROGER PRITZEL
3151	NETWORK DESIGN LLC
	OTT, PAUL S
3263	NISSON, MICHAEL
3480	STEPHENSON, SUSANNE
3700	BURGESS, VIRGINIA A
3794	NATHAN, MORRY D
3795	COOCH, JOCELYN
3803	NUGENT, CLARK E
3875	BLOW, FREDERIC C
3980	CAPODIVACCA, MARCO
3999	HORTON, JAMES B
	JAMES HORTON
4010	HEADEND, COMCAST
4065	KRISTENSEN, KATHERINE
	NEWMYER WILLIAM A
4090	WEBER, JAMES L
4125	ARNOLD, LAWRENCE D
4380	STEPHENSON CERAMICS
	STEPHENSON, JOHN H
4393	ALF, GREGG T
4401	TEACHOUT, GAIL E
4460	COPIER & FAX REPAIR SVC LLC
	TOMSIC, ROBERT J
4465	KEITH, ANTHONY C

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2014 (Cont'd)

4473	ROSS, BENJAMIN L
4480	CONCEPTS RSTORATION SPECIALIST
	MANN, RONALD E
4484	CUMMINS, LINDA J
4515	MACGREGOR HOLLOW FARM LLC
	OCCUPANT UNKNOWN,
4535	MEDICAL LEGAL CONSULTING
	MITCHELL GENE
	MITCHELL, GENE O
	TRINITY FARMS
4540	ULTIMATE AUTOMATION
	VINNIK, ARKADI A
4550	BOYD, TIMOTHY W
4775	GOUDSMIT, ANNA P
	KIRKPATRICK, STUART A
4799	HOLCOMB, RANDOLPH E
4810	A GROWING SERVICE
	BAKER, AMBER F
4880	LUIGI, GUARASCIO
4926	MURRAY, CYRIL
4936	DEAN LESLIE NEIL
	DEAN, LESLIE N
4970	NEATON, CULLEN P
4971	HYNE, KC
	ISLAND
5061	SHAFER, ORIE T
5133	WHITT, GAIL R
5141	HASSELBACH, KIRK
5163	HANSELMAN, DONALD E
5171	CALHOUN, BEN
	PROFESSIONAL DISC GOLF ASSN
5415	WHEELER, CAROLYNE
5425	GROBBEL, GILBERT A
	LOCKMAN-DAUGHERT, CAROL R
5670	GENSLEY, DALE R
5688	LIVINGSTON, GALE R
5775	GENSLEY, MARJORIE S
5861	SWEETLAND, NEIL R
5876	DRAKE DONALD
	DRAKE, CURTIS S
5890	DRAKE, STEVEN D
6291	FRED HIEBER
	HIEBER, FRED S
6350	DRAKE, MATTHEW
6355	WOODSIDE, BENJAMIN J
6363	FASH RESEARCH & ENGRG LLC
	FASH, JAMES W
6486	SWEETLAND, DALE L
6509	MONEY, PENNY M
6595	JEDELE JAMES

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2014 (Cont'd)

6595	JEDELE, MARY J
6634	SWEETLAND, DAVID
7045	WOLFE, EMMA L
7065	JANUSZ JOSEPH
	JANUSZ, JOSEPH A
7085	HENERSON, C
7115	KREUZWIESER, MATTHEW L
7120	BARNARD, MORGAN
	MANNING, SEAN M
	PANOZZO, JENNA S
7126	OPALIA, JOHNNY P
7301	GOOD HART ARTISANS LLC
	ROUSH, STEPHEN M
7373	CARPENTER S CHARITY
	HACKBARTH, STEVEN B
7440	HEGER, KEVIN M
7441	APRILL, ALAN A
7450	LOUNSBERRY, ROBERT E
7650	DAN VAASSEN
	VAASSEN, DANIEL J
7800	MASTERS, SARA L
7820	GRADEN, EARL R
7901	DAUGHERTY, LYNN
8125	COLE, CHARLES C
	MATADOR LC
8150	GRADEN, SCOT A
8254	WEED, MARGARET A
8255	KNOEDLER, ROY H
	TALLY ENGINEERING
8269	OHS, ZACHARY
8300	LAWRENCE ARBORCARE LLC
	LAWRENCE, WILLIAM C
	MESSLER, CATHERINE M
8480	KRUEGER, KURT L
8531	LEWISON, KENNETH S
8536	WENK, CARL W
8900	BOONE, LOUIS E
8941	CLARK, GERALD R
9021	YOUNG, JASON
9035	ROEHM, RICHARD L
9050	DISCH, DOUGLAS M
	VOLLMAR, KRISTEN R
9071	OCCUPANT UNKNOWN,
9221	EMMA ACRES LLC
	SKOWRONSKI, MARK A
9393	EDWIN E EGELER TRUST
9447	EGGLESTON, JOHN A
9450	MILLS, LOUIS G
9505	NEFF, BARBARA A
9537	SCOTT JEFFERY MASONRY INC

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2014 (Cont'd)

9537	SCOTT, JEFF R
9568	ELLINGER, CHRISTOPHER
9602	BRYANT, JOHN A
9605	OCCUPANT UNKNOWN,
9610	MILLER, EMILY L
9630	GREEN THUMB
	VAN RADEN MICHAEL
	VANRADEN, MICHAEL J
9642	DORITY, MICHAEL D
9725	COBB, PATRICIA M
9734	ROSE, DALE A
9821	ERNST, KEVIN K
10110	OCCUPANT UNKNOWN,
10115	ANNIS, THEODORE C
10335	WALDRON, RONALD A
10390	OCCUPANT UNKNOWN,
	REBSTOCK TRANSPORTATION INC
	STIERLE NEIL
10641	NEWLAND, R B
10850	SCHENK, DIANE M
10955	SCHENK, KARL H

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 2010

102	FISHER, DOUGLAS R
	HERRERAS COMPANY L L C
110	DAKOTA HOLDINGS LLC
	WISE, DEAN S
111	DUGAN, E
114	FALK, LYNN B
115	KRZYZOWSKI, THAD J
116	RIJKE, TASHA K
120	NEIMAN, ED T
121	LYNN, CENDRA L
	RIVENDELL RESOURCES INC
201	OCCUPANT UNKNOWN,
206	MABRY, DEANNA D
207	OCCUPANT UNKNOWN,
210	HUMAN NETWORKS INC
	MURPHY, MICHAEL B
211	MARTEL, JOHN W
214	PARSONS, JEFFREY R
215	MICHELSON, BEN N
218	PETERSON, GABRIEL T
219	JONES, IAN M
223	LINDA NYRKKANEN DESIGN
	NYRKKANEN, GREG R
224	EGAN, JAMES C
227	THORPE, CATHERINE A
228	HUNTZICKER, DAVID F
229	SHERRY, LAUREN A
230	HAUSMAN, D C
233	OCCUPANT UNKNOWN,
234	OCCUPANT UNKNOWN,
237	BERRY, DEREK G
240	OCCUPANT UNKNOWN,
241	CHRISTIANSON DESIGNS
	WEICHMANN KENT
	WEICHMANN, KENT L
244	ROBERTS, JEFFREY S
245	ARA LEON RAFAELIAN
	RAFAELIAN, ARA L
248	MCGLONE, KATHERINE H
249	DUCK, BRIAN K
252	MEZA RANDY
	MEZA, RANDY A
253	INTIMATIONS
	PATERNOSTER, JAMES L
256	WHITE, DEREK J
259	DOLAN, THOMAS W
	KINDREDSPIRIT ART FOR SOUL LLC
263	KIEFFER, CHARLES H
270	OCCUPANT UNKNOWN,
272	OBRIEN, COLIN D

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 2010 (Cont'd)

322	MARTIN, PRESTOR L
326	NORRIS, KYLE
327	APPLETON, HENRIETTA
328	MURDOCK, PATRICK S
414	OCCUPANT UNKNOWN,
415	FINKBEINER, ARLENE E
416	TANG, DUC V
	TARO PROPERTIES LLC
419	ADDIS, RUTH E
	HER ELECTRIC
420	GONDECK, JACK
421	ROZEK, PAUL S
	SIMON ALEXANDER JOHN
422	OCCUPANT UNKNOWN,
424	DOWNS, ELIZABETH A
	ORTIZ NESTER
425	ROBINSON, JASON W
426	HANSELMAN, ALLAN C
427	HACK, DANIEL D
428	FREEMAN, JOHN B
429	LAROCCA, DOMINIC J
	MITRE CORPORATION
431	ABDELNOUR, THOMAS A
500	BISHAR, MARK C
501	ZINN, WILLIAM M
502	SONGER, NANCY B
503	PHILLIP, JENNIFER
504	NARAGON, LYNN C
506	RIPLEY, DOREN
507	HOLMES, ROBERT B
508	HERRALA, JOHN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2010

2000	TARGET CORPORATION
2105	DAVISON, MARILYN
2135	BROOKS, LARRY A
2155	BRUSSOLO, ROBERT F
2378	WINFREY, STEPHANIE
2551	GIBSON, DANNY
	MUNCE, BRADLEY W
2555	SCHNEIDER, REBECCA
2566	JICKLING, JULIA W
2570	OCCUPANT UNKNOWN,
2601	A S MANAGEMENT
	COSCIA, ARTHUR F
2740	RAMACHANBRAN, SATYA K
2750	WAGLEY, JACK D
2761	OCCUPANT UNKNOWN,
2841	LANNEN, LAURA
2843	HOLLOWELL JOHN & ASSOCIATES
2852	OCCUPANT UNKNOWN,
2860	PAYNE, JONATHAN A
2965	STRADER, RICHARD B
2977	GROSS ANGELO
	SPEAR, LAURA A
3001	TAYLOR CHRISTY
3099	PRITZEL, ROGER A
	ROGER PRITZEL
3151	NETWORK DESIGN LLC
	OTT, PAUL S
3263	NISSON, MICHAEL
3695	OCCUPANT UNKNOWN,
3700	DUDLEY, DAVID T
3794	NATHAN, MORRY D
3795	COOCH, JOHN E
3803	NUGENT, CLARK E
3875	LEWIS, DWIGHT L
3980	BACCOUCHE, MOHAMED R
3999	HORTON, JAMES B
4010	HEADEND, COMCAST
4065	JENKS, ROBERT C
4090	WEBER, JAMES L
4125	ARNOLD, LAWRENCE D
4380	STEPHENSON CERAMICS
	STEPHENSON, JOHN H
4393	ALF, GREGG T
4401	TEACHOUT, GAIL E
4460	COPIER & FAX REPAIR SVC LLC
	TOMSIC, ROBERT J
4465	KEITH INVESTMENTS
	KEITH, ANTHONY C
4473	ROSS, BENJAMIN L
4480	MANN, RONALD E

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2010 (Cont'd)

4484	CUMMINS, LINDA J
4515	MACGREGOR HOLLOW FARM LLC
	PITTS, ANTHONY M
4535	MITCHELL GENE
	MITCHELL, GENE O
	TRINITY FARMS
4540	ULTIMATE AUTOMATION
	VINNIK, ARKADI A
4550	OCCUPANT UNKNOWN,
4775	GOUDSMIT, ANNA
	KIRKPATRICK, STUART A
4799	OCCUPANT UNKNOWN,
4810	A GROWING SERVICE
	ZIMMER, ELIZABETH A
4880	LUIGI, GUARASCIO
4926	MURRAY, CYRIL
4936	DEAN LESLIE NEIL
	DEAN, LESLIE N
4970	CN CARPENTRY
	NEATON, CULLEN
4971	HYNE, KENT C
	ISLAND
5061	INSTRUMENTATION SERVICES CO
	POOL, KATHARINA D
5133	SHADIS, JUSTIN
5141	MCALLISTER, HEATHER M
5163	HANSELMAN, DONALD E
5171	CALHOUN, TERRY P
	PROFESSIONAL DISC GOLF ASSN
	SHEILA CALHOUN
5415	CEDAR RIDGE EQUINE CENTER
	LUNDE, MARK A
5425	GROBBEL, GRANT M
5670	GENSLEY, DALE R
5688	LIVINGSTON, GALE R
5775	GENSLEY, MARJORIE S
5861	SWEETLAND, RICHARD N
5876	DRAKE DONALD
	DRAKE, CURTIS S
5890	DRAKE, STEVEN D
6291	FRED HIEBER
	HIEBER, JODDY A
6350	DRAKE LAND FARM
	OCCUPANT UNKNOWN,
6355	WOODSIDE, BENJAMIN J
6363	ACCID ENERGY INC
	FASH RESEARCH & ENGRG LLC
	WHITE, FASH J
6486	SWEETLAND, DALE L
6595	JEDELE JAMES

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2010 (Cont'd)

6595	JEDELE, JAMES W
6634	SWEETLAND, BRIAN D
7045	WOLFE, BOBBY E
7065	JANUSZ, JOSEPH A
7085	HENDERSON, PETER W
7115	KREUZWIESER, MATTHEW L
7126	OPALIA, JOHNNY P
7145	HUTCHINS, TOMMIE W
7301	ROUSH, STEPHEN M
7373	CARPENTER S CHARITY
	HACKBARTH, STEVEN B
7440	HEGER, C
7441	APRILL, ALAN A
7450	LOUNSBERRY, ROBERT E
7650	DAN VAASSEN
	VAASSEN, DANIEL J
7800	MASTERS, SARA L
7820	EARL GRADEN
	GRADEN, EARL R
8125	CHIMNEY RESCUE SQUAD CORP
	CP HASKELL
	HASKELL SERVICE COMPANY
	OCCUPANT UNKNOWN,
8150	GRADEN, SCOT A
8254	WEED REALTY INC
	WEED, MARGARET A
8255	KNOEDLER, ROY H
	TALLY ENGINEERING
8269	OHS, ZACHARY
8300	LAWRENCE ARBORCARE LLC
	LAWRENCE, WILLIAM C
8480	KRUEGER, KURT L
8531	LEWISON, KENNETH S
8536	WENK, CARL W
8900	BOONE, LOUIS E
8941	CLARK, GERALD R
9021	YOUNG, JASON
9035	ROEHM, RICHARD L
9050	DISCH, DOUGLAS M
	HOWARD, MARK W
	VOLLMAR, KRISTEN R
9071	YOUNG, LINDA M
9221	ROEHM, ERMA L
9393	HARDY, MAY L
9447	EGGLESTON, JOHN A
9450	MILLS, LOUIS G
9505	NEFF, BARBARA A
9537	SCOTT JEFFERY MASONRY INC
	SCOTT, JEFF R
9568	KOURTJIAN, KRISTINE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2010 (Cont'd)

9602	BRYANT, JOHN A
9605	OCCUPANT UNKNOWN,
9610	MILLER, PHIL W
9630	GREEN THUMB
	VAN RADEN MICHAEL
	VANRADEN, MICHAEL J
9642	DORITY, MICHAEL D
9725	COBB, PATRICIA M
9734	ENGLISH, DALE R
9821	ERNST, KEVIN K
10050	RAYER, WILLIAM J
10110	OCCUPANT UNKNOWN,
10115	ANNIS, THEODORE C
10335	WALDRON, RONALD A
10390	STIERLE NEIL
	STIERLE, NEIL N
10641	NEWLAND, R B
10850	SCHENK, DIANE M
10955	SCHENK KARL H
	SCHENK, KARL H

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 2005

102	FISHER, DOUGLAS R
110	OCCUPANT UNKNOWN,
111	DUGAN, E
114	FALK, MICHAEL L
115	KRZYZOWSKI, RUTH E
116	RUETTER, A
120	NEIMAN, TIMOTHY
121	LYNN, CENDRA C
	RIVENDELL RESOURCES INC
201	PEARSON, HERBERT F
202	PRATT, GREGORY J
206	MABRY, DEANNA D
207	JONES, MATTHEW C
210	HUMAN NETWORKS INC
	MURPHY, MICHAEL B
211	CHOSID, MATTHEW A
214	PARSONS, JEFFREY R
215	MICHELSON, BEN N
218	SAND, SHARON L
219	HAYES, PAMELA J
223	NYRKKANEN, GREG R
224	EGAN, JAMES C
227	OCCUPANT UNKNOWN,
228	HUNTZICKER, DAVID F
229	DURRETT, SHANNON
	PORINI USA INC
230	HAUSMAN, CRAIG C
233	OCCUPANT UNKNOWN,
234	ORDER TECHNOLOGY LTD PARTNR
	PARRISH, DONALD S
237	BOWLES, GLENN
240	KEENE, TONY J
	METRO LUXURY BATH
241	CHRISTIANSON DESIGNS
	CHRISTIANSON, MARY S
245	ARA LEON RAFAELIAN
	RAFAELIAN, ARA L
248	MCGLONE, KATHERINE H
249	JACQUEMIN, HUGUES L
252	LUTZ, GERALD G
253	INTIMATIONS
	PATERNOSTER, JAMES L
255	BRINK, THOMAS G
256	WHITE, DEREK J
259	DOLAN, THOMAS W
263	KIEFFER, CHARLES H
270	PTACEK, TOM H
272	OBRIEN, COLIN D
322	RIDE, VIDA
327	APPLETON, JANIS S

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 2005 (Cont'd)

328	MURDOCK, PATRICK S
414	MAZUR, DANIEL E
415	FINKBEINER, ARLENE E
416	OCCUPANT UNKNOWN,
419	ADDIS, M S
	HER ELECTRIC
420	PAYTON, LISA F
421	SIMON, DAVID
422	MARKOSIAN, LEE G
424	ORTIZ NESTER
	ORTIZ, ANGELA
425	ROBINSON, JASON W
426	HANSELMAN, SCOTT A
427	NEERING BUILDING & DEVELOPMENT
	NEERING, ANDREW J
428	FREEMAN, JOHN B
429	PRIEDE, TALIVALDIS
431	ABDELNOUR, THOMAS A
500	BISHAR, MARK
501	ZINN, WILLIAM M
502	STAUB, MICHAEL
503	LAVIN, MARY S
504	NARAGON, LYNN C
506	RIPLEY, MARK J
507	HOLMES, ROBERT B
508	HERRALA, KARY M

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2005

2000	TARGET CORPORATION
2105	OCCUPANT UNKNOWN,
2135	BROOKS, LARRY A
2155	BRUSSOLO, ROBERT F
2551	HALL, S
	WENDEL, W
	WOUGHTER, FREDERICK L
2566	JICKLING, JULIA W
2601	COSCIA, ARTHUR F
2740	FARHA, SORAYA
2750	WAGLEY, JACK
2761	LONG, WENDY S
2781	SZEGDA, MARGARET M
2843	HOLLOWELL JOHN & ASSOCIATES
	SLAUGHTER, PHILLIP J
	TEBBE, FELICE E
2852	MELCHER, DAVID P
2860	PAYNE, JONATHAN A
2965	STRADER, RICHARD B
2977	GROSS ANGELO
	SPEAR, LAURA A
3001	MCDONALDS RESTAURANTS OF MICH
3099	OCCUPANT UNKNOWN,
	ROGER PRITZEL
3151	HOOPER, PAUL S
	NETWORK DESIGN LLC
3176	RIGGS, JASON M
3183	BRUNTY, E
3269	DEEDS, JEFFREY
3695	OCCUPANT UNKNOWN,
3700	DUDLEY, DAVID T
3794	NATHAN, MORRY D
3795	COOCH, JOHN E
3803	NUGENT, CLARK E
3875	LEWIS, DWIGHT L
3980	BACCOUCHE, MOHAMED R
	BHY INVESTMENTS INC
3999	HORTON, JAMES B
4065	JENKS, ROBERT C
4090	WEBER, JAMES L
4125	ARNOLD, LAWRENCE D
4194	OCCUPANT UNKNOWN,
4380	STEPHENSON CERAMICS
	STEPHENSON, JOHN H
4393	ALF, GREGG
	ANN HELEN PETROU DC
4401	TEACHOUT, WARREN W
4460	COPIER & FAX REPAIR SVC LLC
	TOMSIC, ROBERT J
4465	KEITH INVESTMENTS

WATERS RD 2005 (Cont'd)

4465	KEITH, ANTHONY C
4473	ROSS, BENJAMIN L
4480	TRACHET, RONALD L
4484	CUMMINS, LINDA J
4515	PITTS, ANTHONY M
4535	MITCHELL GENE
	MITCHELL, GENE O
	TRINITY FARMS
4540	ULTIMATE AUTOMATION
	VINNIK, ARKADI A
4550	OCCUPANT UNKNOWN,
4775	DONEGAN, LINDA
4799	KENT, HYNE
4810	A GROWING SERVICE
	ZIMMER, THEODORE J
4926	MURRAY, CYRIL
4936	DEAN LESLIE NEIL
	DEAN, LESLIE N
4970	PILLSBURY, JOHN C
4971	HYNE, KENT C
	ISLAND
5061	POOL, HARRY C
5133	OCCUPANT UNKNOWN,
5141	MCALLISTER, HEATHER
5163	OCCUPANT UNKNOWN,
5171	CALHOUN, TERRY P
	SHEILA CALHOUN
5425	COOCH, THEODORE
	GROBBEL, GRANT M
	TROMBINO, STEVE C
5670	GENSLEY, DALE
5688	LIVINGSTON, GALE R
5775	GENSLEY, MARJORIE
5861	SWEETLAND, RICHARD N
5876	DRAKE DONALD
	DRAKE, DONALD H
5890	DRAKE, STEVEN D
6291	HIEBER, JODDY A
6350	DRAKE LAND FARM
	DRAKE, MARILYN D
6355	OCCUPANT UNKNOWN,
6363	WHITE, FASH J
6486	SWEETLAND, DALE L
6505	BUKOWSKI, TODD M
6595	JEDELE JAMES
	JEDELE, JAMES W
6634	SWEETLAND, BRIAN D
7045	WOLFE, BOBBY E
7065	JANUSZ, JOSEPH A
7085	HENDERSON, CARL E

WATERS RD 2005 (Cont'd)

7115	KREUZWIESER, MATTHEW L
7120	PAGE, DEMIE
7126	OPALIA, JOHNNY P
7145	HUTCHINS, TOMMIE W
7301	ROUSH, STEPHEN M
7373	HACKBARTH, STEVEN B
7440	HEGER, C
7441	APRILL, ALAN A
7450	LOUNSBERRY, ROBERT E
7650	VAASSEN, DANIEL J
7800	GRADEN, HELEN L
7820	EARL GRADEN
	GRADEN, EARL R
7901	DAUGHERTY, STEVEN L
	LYNNS COUNTRY DAY CARE
8125	HASKELL SERVICE CO INC
	OCCUPANT UNKNOWN,
8150	GRADEN, SCOT A
8254	WEED, MARGARET A
8255	KNOEDLER, ROY H
	TALLY ENGINEERING
8300	LAWRENCE, WILLIAM C
8480	KRUEGER, KURT L
8531	LEWISON, KENNETH S
8536	WENK, CARL W
8900	BOONE, LOUIS E
8941	CLARK, GERALD R
9035	ROEHM, RICHARD L
9050	DEJARLAIS, BRADLEY
	VOLLMAR, KRISTEN R
	WARD, DALE A
9071	YOUNG, LINDA M
9221	ROEHM, ERMA L
9393	HARDY, TOMMY L
9447	OCCUPANT UNKNOWN,
9450	MILLS, LOUIS G
9505	NEFF, ROGER D
9537	SCOTT JEFFERY MASONRY INC
	SCOTT, JEFF R
9568	ELLINGER, CHRISTOPHER
9602	BRYANT, JOHN A
9605	HECKER, HARLYN
9610	MILLER, PHIL W
9630	GREEN THUMB
	VANRADEN, MICHAEL J
9642	DORITY, MICHAEL D
9725	COBB, PATRICIA M
9734	ROSE, DALE A
9821	ERNST KEVIN
	ERNST, KEVIN K

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2005 (Cont'd)

10050	RAYER, WILLIAM J
10110	GEBHARDT, KARL R
10115	DAVIS, KATHLEEN C
10335	WALDRON, RONALD A
10390	STIERLE NEIL
	STIERLE, NEIL N
10641	NEWLAND, BRADLEY B
10850	SCHENK, DIANE M
10955	SCHENK KARL H
	SCHENK, KARL H

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 2000

110	WISE, DEAN S
111	DUGAN, JOHN S
114	CATCHOT, TONY
	CHRISTOFFERSON, JULIE
115	KRZYZOWSKI, RUTH
116	NORRIS, J
	WILDCAT ELECTRIC
120	COFFEY, SEAN
	SAUVE, ANNE
121	GRIEFNET
	LYNN, CENDRA
201	PEARSON, HERBERT
202	CURTIS, SHANNON R
	KEMMELMEIER, MARKUS
	LEGO DACTA
	MUELLER, MICHAEL
206	OCCUPANT UNKNOWN,
207	FITZGERALD, TOM
	T D F II HAULING
210	HUMAN NETWORKS INC
	OCCUPANT UNKNOWN,
211	FLYNN, FREEMAN
214	PARSONS, JEFFREY R
215	MICHELSON, BEN
218	SAND, SHARON L
219	POWERS PATRICK J DESIGN
	POWERS, PATRICK
223	AGRAWAL, GAIL
	FARNSWORTH, BRADLEY
	PIPAN, RICHARD
	WILSON, ELAINE
224	EGAN, JAMES
	SKADSEN, JANICE
227	BACHMAN, STEVEN
	MIKESELL, K
228	KOVACS, ROLAND
229	HOEFT, PAULA M
230	PARRISH, DONALD
233	CHARNIZON, J
234	PARRISH, DONALD S
237	OCCUPANT UNKNOWN,
240	KEENE, STEPHAN
241	CHRISTIANSON, MARY S
	WEICHMAN, KENT L
244	BURNHAM, C A
245	RAFAELIAN, ARA
248	MCGLONE, K H
249	LYGHTEL, EDWARD
252	LUTZ, ERWIN
253	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 2000 (Cont'd)

255	ULRICH, OTHO
256	FUREY, DAVE
259	DOLAN, THOMAS W
263	KIEFFER, CHARLES
	ZIEFERT, MARJORI
270	REINWALD, DIANE C
	WILLIAMS, POWELL
272	TYREE, KAREN
322	MARTIN, JUSTIN
	RIDE, VIDA
326	NORTON, SEAN P
327	APPLETON, JANIS
328	ADAMS, J T
	CONNELLY, MATTHEW
416	CAKES OF ART
419	HER ELECTRIC
421	HONEYCUTT, JAMES
422	ALARCON, SAUL F
424	DOWNS, E
425	MCCRAY, MELANIE S
426	BRUNI, GEORGE
	HANSELMAN, DIANE
427	NEERING, DIANA
428	FREEMAN, JOHN B
429	HOUSER, TERENCE
431	ABDELNOUR, THOMAS
	WILLIAMS, DEBORAH
446	DAVIS, LAURA
	JOHNSON, V
500	TRIM, BETTINA L
501	ZINN, MIKE
502	HERZOG, DAGMAR
	STAUB, MICHAEL E
503	LAVIN, MARY S
504	OCCUPANT UNKNOWN,
506	OCCUPANT UNKNOWN,
507	OCCUPANT UNKNOWN,
508	HERRALA, WALTER

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2000

2000	TARGET CORPORATION
2105	PETERS, DONALD S
2135	BROOKS, LARRY
2155	BRUSSOLO, ROBERT F
2551	EVANS, MARTIN
	JARSKEY, JAMES D
	JDJ CONTRACTING
	KERR, JOHN
2555	MILLER, BRYAN
2566	JICKLING, JULIA
2601	COSCIA, ARTHUR
2761	STUART, LUKE
2843	HOLLOWELL JOHN & ASSOCIATES
	WOUGHTER, F
2852	MELCHER, DAVID
2950	PETRUT, A
2965	STRADER, RICHARD
3001	MC DONALDS RESTAURANTS OF MICH
3099	PRITZEL, ROGER
3794	NATHAN, MORRY
3875	BLOW, F
	LEWIS, DWIGHT L
3980	BACCOUCHE, RIDHA
3999	HORTON, JAMES
4065	JENKS, CYRUS R
4090	WEBER, E F
4125	ARNOLD, D W
4194	BABBITT, K R
4380	STEPHENSON CERAMICS
	STEPHENSON, JOHN H
4393	OCCUPANT UNKNOWN,
4401	TEACHOUT, WARREN W
4460	COPIER & FAX REPAIR SERVICE
	TOMSIC, ROBERT
4465	KEITH, ANTHONY C
4480	TRACHET, RONALD
4484	CUMMINS, LINDA
4515	T R C TRNING RSOURCING CONSULT
	WIEDMAYER, RICHARD
4799	GRAMS, ELSIE
4810	A GROWING SERVICE
	ZIMMER, T J
4936	DEAN, NEIL
4970	PILLSBURY, JOHN C
4971	HYNE, KENT C
	ISLAND
5061	POOL, M H
5141	HASSELBACH, WERNER
5171	CALHOUN, TERRY
	SHEILA CALHOUN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2000 (Cont'd)

5425	GROBBEL, G
	JEDELE, GLEN R
5688	LIVINGSTON, GALE
5861	SWEETLAND, NEIL R
5876	DRAKE DONALD
	DRAKE, DONALD H
5890	DRAKE, STEVEN D
6291	HIEBER, JODDY A
6350	DRAKE LAND FARM
	DRAKE, HAROLD
6355	WEBB, PHIL
6363	FASH, JAMES
	WHITE, DAWN
6486	SWEETLAND, DALE L
6595	JEDELE JAMES
	JEDELE, JAMES W
6634	SWEETLAND BRIAN
	SWEETLAND, BRIAN
7045	WOLFE, BOB L
7120	OCCUPANT UNKNOWN,
7126	JAVIER, IAN
7145	HUTCHINS, TOM
7301	ROUSH, STEPHEN
7373	HACKBARTH, STEVEN
7440	HEGER, BARRY
7441	APRILL, ALAN A
7450	LOUNSBERRY, S
7650	VAASSEN, DANIEL
7800	GRADEN, HELEN
7820	EARL GRADEN
	GRADEN, EARL R
7901	DAUGHERTY, STEVEN
	LYNNS COUNTRY DAY CARE
8125	FIEGEL, DUANE R
8254	WEED, BYRON
8255	KNOEDLER, ROY H
	TALLY ENGINEERING
8300	OCCUPANT UNKNOWN,
8480	KRUEGER, KURT L
8536	WENK, EDGAR E
8900	BOONE LOUIS
	BOONE, LOUIS E
9071	YOUNG, LINDA M
9393	HARDY, MAY L
9447	EGGLESTON, JOHN
9505	NEFF, ROGER D
9537	SCOTT JEFFERY MASONRY INC
	SCOTT, JEFF
9568	ELLINGER, C
9602	JANKINS, STEPHEN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

WATERS RD 2000 (Cont'd)

9610	OCCUPANT UNKNOWN,
9630	GREEN THUMB
9642	ROSE, L
9821	ERNST KEVIN
10110	GEBHARDT, KARL
10115	DAVIS, ROBERT A
10335	WALDRON, RONALD A
10390	STIERLE NEIL
	STIERLE, NEIL
10850	SCHENK, ALBERT
10955	SCHENK, KARL

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 1995

110	WISE, DEAN S
111	DUGAN, JOHN S
114	OCCUPANT UNKNOWNN
115	MENEGHINI, DON
116	EARLY, HAROLD C
120	SMITH, ROGER C
121	LYNN, CENDRA
201	PEARSON, LISA
202	MOORE, SCOTT
	MUELLER, MICHAEL
206	HALLIDAY, A
207	STEINBERG, TERI
	T D F II HAULING
210	HUMAN NETWORKS INC
	MURPHY, MICHAEL B
211	FLYNN, FREEMAN
214	PARSONS, JEFFREY R
215	MICHELSON, BEN
218	FLETCHER, RONALD H
219	POWERS PATRICK J DESIGN
	POWERS, PATRICK
223	FARNSWORTH, BRADLEY
	ISRAEL, BARBARA A
	PIPAN, RICHARD
	WILSON, E
224	EGAN, JAMES
	SKADSEN, JANICE
227	NELSON, NANCY J
228	KOVACS, ROLAND
229	HOEFT, PAULA M
230	LUTZ, RALPH
233	LANGMORE, IAN
234	PARRISH, DONALD S
237	BOWLES, GLENN
240	KEENE, STEPHAN
244	BURN, C A
245	OCCUPANT UNKNOWNN
249	WULFF, L Y
252	LUTZ, GERALD G
253	WILLOUGHBY, LELAND W
255	KOCH, KENNETH
256	FUREY, DAVE
259	DOLAN, THOMAS W
263	KIEFFER, CHARLES
	STATMAN, MATHEW
	ZIEFERT, M
270	CARPENTER, D J
322	RIDE, VIDA
326	VANCLEEFF, JUDITH
327	APPLETON, JANIS

Target Street	Cross Street	Source
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CREST ST 1995 (Cont'd)

328	ADAMS, J T
	CAIN, CYNTHIA C
	MASTICK, GRANT S
419	HER ELECTRIC
420	OCCUPANT UNKNOWNN
421	KOKELAAR, WILLIAM
422	MCGARTLAND, SEAN
424	OCCUPANT UNKNOWNN
425	MCCRAY, MELANIE S
426	RIKE, K
427	NEERING, ANDREW
428	FREEMAN, JOHN B
429	HOUSER, TERENCE
	PRIEDE, T
431	BERNARD, VICTOR
500	BEARDSLEY, WILLIAM
501	OCCUPANT UNKNOWNN
502	SHULMAN, MICHAEL A
503	LAVIN, M S
504	ROBINSON, ROBERT D
506	DAVIS, MARY
507	HOLMES, ROBERT B
508	OCCUPANT UNKNOWNN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

W WATERS RD 1995

2000	DAYTON HUDSON CORPORATION
2105	PETERS, DONALD S
2135	BROOKS, LARRY
2155	LAKIN, JAMES R
2551	ADWANI, J B
	NORDMAN, AARON
2555	POLICHT, HARRY
2566	JICKLING, JULIA W
	NOELLERT, RAYMOND
2601	GEARHART, R
2761	STRUBLE, LAURA
2778	MILES, LESLIE E
2781	OCCUPANT UNKNOWNN
2841	RAY, ALISA
2843	HOLLOWELL JOHN & ASSOCIATES
	KASMER, ANGELA
2852	AR, LINDA
2860	OCCUPANT UNKNOWNN
2950	PETRUT, A
2965	STRADER, RICHARD
2977	OCCUPANT UNKNOWNN
3099	PRITZEL, ROGER
3151	OCCUPANT UNKNOWNN
3263	TEICHROEW, DANIEL
3695	HAMLIN, MA
3700	DUDLEY, K
3794	NATHAN, MORRY
3803	OCCUPANT UNKNOWNN
3875	BLOW, F
	LEWIS, DWIGHT L
3999	HORTON, JAMES
4065	JENKS, CYRUS R
4090	WEBER, ERWIN F
4125	ARNOLD, D W
4194	BABBITT, K R
4380	STEPHENSON CERAMICS
4393	DOUGLAS, DONALD C
4401	TEACHOUT, WARREN W
4460	TOMSIC, ROBERT
4465	KEITH, ANTHONY C
4473	OCCUPANT UNKNOWNN
4480	TRACHET, RONALD
4484	CUMMINS, LINDA J
4515	MACKINDER, C
4775	DOVER SPRINGS CO
	STARR, NORMAN
4799	GRAMS, RONALD L
4810	A GROWING SERVICE
	ZIMMER, T J
4926	OCCUPANT UNKNOWNN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

W WATERS RD 1995 (Cont'd)

4970	PILLSBURY, JOHN C
4971	LIRETTE, JOHN W
5061	POOL, MILTON H
5133	ROACH, PATRICK
5141	HASSELBACH, H
5163	GRIFFIN, CLAIR F
5425	GROBBEL, G
5688	LIVINGSTON, GALE
5861	SWEETLAND, NEIL R
5876	DRAKE, DONALD H
6291	HIEBER, FRED
6350	DRAKE, HAROLD
6355	GIBSON, LES
6363	FAHRNER, JACOB
	FASH, JAMES
	PROESCHL, WENDY
	WHITE, DAWN
6486	SWEETLAND, DALE L
6595	JEDELE, JAMES W
7045	WOLFE, BOB L
7085	HENDERSONN, CARL E
7115	ODONNELL, FRANCIS E
7120	KALEITA, JO A
7145	HUTCHINS, TOM
7301	ROUSH, STEPHEN
7373	HACKBARTH, STEVEN
7440	HEGER, BARRY
7441	APRILL, ALAN A
7450	LOUNSBERRY, ROBERT JR
7650	VAASSEN, DANIEL
7800	GRADEN, HAROLD
7820	GRADEN, EARL R
7901	BARTH, OPAL
	DAUGHERTY, STEVEN
8125	FIEGEL, DUANE R
8255	KNOEDLER, ROY H
	TALLY ENGINEERING
8480	KRUEGER, KURT L
8531	KELLER BLDG & DESIGN GROUP INC
8536	WENK, EDGAR E
8900	BOONE, LOUIS E JR
8941	CLARK, GERALD R
	NETLER, SHERI
9035	ROEHM, RICHARD L
9050	HAGEN, DANIEL
	VOLLMAR, KRISTEN
9071	YOUNG, LINDA M
9221	ROEHM, LOUELL
9393	HARDY, TOMMY L
9447	EGGLESTON, JOHN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

W WATERS RD 1995 (Cont'd)

9450	MILLS, LOUIS
9505	NEFF, ROGER D
9537	SCOTT JEFFERY MASONRY INC
	SCOTT, MELANIE
9602	DUKE, K
	GRAMMATICO, LINDA L
9610	MILLER, PHIL
9630	GREEN THUMB
	VANRADEN, MICHAEL
9642	ROSE, WILLIAM A
9734	WHITE, CYRIL S
9821	OCCUPANT UNKNOWNN
10110	GEBHARDT, KARL
10115	OCCUPANT UNKNOWNN
10335	WALDRON, RONALD A
10390	STIERLE, NEIL
10641	OCCUPANT UNKNOWNN
10850	SCHENK, ALBERT
10955	LEVINSKI, ANNE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 1992

110	WISE, DEAN S
111	DUGAN, JOHN S
114	RATHBURN, SUSAN D
115	MENEGHINI, DON
116	EARLY, HAROLD C
120	SMITH, ROGER C
201	LIPSON, ERIC
	STERNER, LORENE
206	COHN, LARRY
207	T D F II HAULING
208	GRANT, JAMES
210	MURPHY, MICHAEL B
211	FLYNN, FREEMAN
214	PARSONS, JEFFREY R
215	MICHELSON, BEN
218	FLETCHER, RONALD H
219	POWERS PATRICK J DESIGN
	POWERS, PATRICK
220	JOHNSON, CHARLES E
223	FARNSWORTH, BRADLEY
	ISRAEL, B A
	PIPAN, RICHARD
224	EGAN, JAMES
	SKADSEN, JANICE
228	ANDRASKA, JOSEPH
230	LUTZ, RALPH
232	WINANS, DAVID S
233	LANGMORE, IAN
237	BOWLES, GLENN
240	HAAS, KENNETH S
241	CHRISTIANSON DESIGNS
	ROCOCO, ROCKY
244	BURNHAM, C A
245	EISEMANN, WALDO
249	WULFF, L Y
252	LUTZ, GERALD G
253	WILLOUGHBY, LELAND W
255	SMITH, BESSIE H
256	MARTENS, PHILIP R
259	DOLAN, THOMAS W
263	KIEFFER, CHARLES
	STATMAN, MATHEW
	ZIEFERT, M
270	SCHECTMAN, PERRY
311	GORDON, C M
322	RIDE, VIDA
327	APPLETON, JANIS
328	ADAMS, J T
	THORNBERRY, V
416	LAFORTUNE, S

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

CREST ST 1992 (Cont'd)

422	BORKOWSKI, PHILIP T
425	MCCRAY, MELANIE S
427	MORAN, DIANA D
428	FREEMAN, JOHN B
429	HOUSER, TERENCE
	PRIEDE, T
431	BERNARD, VICTOR
500	LOCHRIE, M
501	SCHNEIDERDEVEN, JOAN P
502	SHULMAN, MICHAEL A
503	STEEB, ELMER
504	ROBINSON, ROBERT D
507	HOLMES, ROBERT B
508	BREITER, DONALD
2022	MUELLER, MICHAEL

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

W WATERS RD 1992

2000	DAYTON HUDSON CORPORATION
2105	PETERS, DONALD S
2551	GIBSON, GLENN
	J J CONSTRUCTION
2566	JICKLING, JULIA W
	PHARDEL, NICOLE
2601	MAAKE
2761	EVALDSON, KATHY
2843	HOLLOWELL JOHN & ASSOCIATES
2950	PETRUT, A
2965	STRADER, RICHARD
3099	PRITZEL, ROGER
3695	HAMLIN, MARTHA A
3700	BROWN, RUTH C
3794	NATHAN, MORRY
3875	BLOW, F
	LEWIS, DWIGHT L
3999	HORTON, JAMES
4065	JENKS, CYRUS R
4090	WEBER, ERWIN F
4125	ARNOLD, D W
4194	BABBITT, K R
4380	STEPHENSON CERAMICS
4393	DOUGLAS, DONALD C
4401	TEACHOUT, WARREN W
4465	BOUDRIE, KENNETH B
	KENS WOOD SHOP
4480	TRACHET, RONALD
4484	HEDMAN, SUSAN
4515	WILSON, HUGH T
4775	DOVER SPRINGS CO
4810	A GROWING SERVICE
	ZIMMER, T J
4926	MURRAY, CYRIL
4936	DEAN, NEIL
4970	PILLSBURY, JOHN C
4971	LIRETTE, JOHN W
5061	POOL, MILTON H
5171	CALHOUN, TERRY
5425	GROBBEL, G
5688	LIVINGSTON, GALE
5861	SWEETLAND, NEIL R
6291	HIEBER, FRED
6350	DRAKE, HAROLD
6355	GIBSON, HUGH
6363	FAHRNER, JACOB F JR
6486	SWEETLAND, DALE L
6595	JEDELE, JAMES W
7045	WOLFE, BOB L
7115	ODONNELL, FRANCIS E

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

W WATERS RD 1992 (Cont'd)

7145	HUTCHINS, TOM
7301	ROUSH, STEPHEN
7373	HACKBARTH, STEVEN
7440	HEGER, BARRY
7441	APRILL, ALAN A
7450	LOUNSBERRY, ROBERT JR
7650	VAASSEN, DANIEL
7800	GRADEN, HAROLD
7820	GRADEN, EARL R
7901	BARTH, O
	DAUGHERTY, STEVEN
8125	FIEGEL, DUANE R
8480	VANDERHYDEN, C F
8536	WENK, EDGAR E
9035	ROEHM, RICHARD L
9050	HARTFORD, CAROLYN
	SCHMEICHELKLINE, K
9071	YOUNG, DAVID
9221	ROEHM, LOUELL
9393	HARDY, TOMMY L
9447	EGGLESTON, JOHN
9450	MILLS, LOUIS
9505	NEFF, ROGER D
9610	MILLER, PHIL
9630	GREEN THUMB
	VANRADEN, MICHAEL
9642	ROSE, WILLIAM A
9734	SCHMIDT, S
10110	GEBHARDT, KARL
10115	DAVIS, ROBERT A
10335	WALDRON, RONALD A
10390	STIERLE, NEIL
10850	SCHENK, ALBERT
10955	SCHENK, ALBERT

Crest Street Property

CREST ST

Ann Arbor, MI 48103

Inquiry Number: 5369404.3

July 23, 2018

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07/23/18

Site Name:	Client Name:
Crest Street Property	ECT
CREST ST	3399 Veterans Drive
Ann Arbor, MI 48103	Traverse City, MI 49684
EDR Inquiry # 5369404.3	Contact: Ryan Higuchi

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PO # RH-07232018

Project Crest Street Property

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 28AD-4F4F-9B24

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- ✔ University Publications of America
- ✔ EDR Private Collection

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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Pittsfield Charter Township	West Waters Road/Oak Valley Drive, Ann Arbor	180469-0100

Photo No.	Date:
1	7/23/2018

Direction Photo Taken:

South

Description:

The Subject Property is currently covered by grass and densely vegetated woodland.

Photo No.	Date:
2	7/23/2018

Direction Photo Taken:

West

Description:

The Subject Property lies approximately 3 feet higher than the sidewalk bordering to the north.

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Pittsfield Charter Township	West Waters Road/Oak Valley Drive, Ann Arbor	180469-0100

Photo No.	Date:
3	7/23/2018

Direction Photo Taken:

Southeast

Description:

The northern portion of the Subject Property is predominantly covered by grass, with densely vegetated woodland on the eastern and western edges.

Photo No.	Date:
4	7/23/2018

Direction Photo Taken:

South

Description:

A strip of dense vegetation separates the northern and southern portions of the Subject Property.

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Pittsfield Charter Township	West Waters Road/Oak Valley Drive, Ann Arbor	180469-0100

Photo No.	Date:
5	7/23/2018

Direction Photo Taken:

South

Description:

The southern portion of the Subject Property is covered by grass and densely vegetated woodland.

Photo No.	Date:
6	7/23/2018

Direction Photo Taken:

East

Description:

A strip of dense vegetation separates the northern and southern portions of the Subject Property.

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Pittsfield Charter Township	West Waters Road/Oak Valley Drive, Ann Arbor	180469-0100

Photo No.	Date:
7	7/23/2018

Direction Photo Taken:

South

Description:

The southern portion of the Subject Property is covered by grass and densely vegetated woodland.

Photo No.	Date:
8	7/23/2018

Direction Photo Taken:

East

Description:

Overhead utilities, running east and west, transect through the south central portion of the Subject Property.

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Pittsfield Charter Township	West Waters Road/Oak Valley Drive, Ann Arbor	180469-0100

Photo No.	Date:
9	7/23/2018

Direction Photo Taken:

Southeast

Description:

A debris pile was observed within the dense vegetation in the southern portion of the Subject Property. The debris consisted of a mattress, clothing material, and concrete blocks.

Photo No.	Date:
10	7/23/2018

Direction Photo Taken:

North

Description:

A debris pile was observed within the dense vegetation in the southern portion of the Subject Property. The vegetation was too dense to capture a photo of the debris.

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Pittsfield Charter Township	West Waters Road/Oak Valley Drive, Ann Arbor	180469-0100

Photo No.	Date:
11	7/23/2018

Direction Photo Taken:

North

Description:

A residential neighborhood is located in the north surrounding area of the Subject Property.

Photo No.	Date:
12	7/23/2018

Direction Photo Taken:

East

Description:

The east adjoining property is commercially developed.

MAURA GIBBONS
Associate Scientist I

Education
B.S. Environmental Geoscience—Michigan State University-Lyman Briggs College, 2015

Registrations
OSHA HAZWOPER 40-hour and 8-hour refresher training
Certified Forklift Operator
CDL Class B with Hazmat and Tanker endorsements

Ms. Gibbons has a bachelor's degree in environmental geoscience from the Lyman Briggs College at Michigan State University. Ms. Gibbons has experience in field services including various sample collection methods, monitoring well installations, geoprobe drilling, phytoremediation installation, and lab packing hazardous waste. As an associate, Ms. Gibbons has assisted with writing and review of standard operating procedures, status reports, environmental covenants, and Phase I and II environmental site assessments (ESAs).

AREAS OF SPECIALIZATION

Soil & Groundwater Investigations, Field Services, Phase I & II Environmental Site Assessments

Technician; Point One Auto Center Property, Arab American Chaldean Council—Conducted a site reconnaissance and authored the Phase I ESA prior to client's purchase of the building.

Technician; Arte Due Diligence, Arte Express Detroit, Inc.—Worked as a field geologist, documented and collected soil samples from soil borings. Completed soil boring logs, data tables, and authored the Phase II ESAs for three properties in Detroit.

Technician; McLouth Steel Phyto Pilot Project, City of Trenton—Ongoing observations and documentation of the progress of the installation of the phytoremediation. U.S. Forest Service Grant for phytoremediation at McLouth Steel in Trenton, Michigan. Pilot project on a quarter acre property.

Technician; Toledo U.S. Environmental Protection Agency (EPA) Investigations, Delta Fuels, Inc.—Sampled groundwater from monitoring wells using the low-flow purging /minimal drawdown methodology. Measured groundwater elevation statics. Recorded and input data into data tables. Environmental investigation effort associated with Resource Conservation and Recovery Act (RCRA) closure activity are pursuant to OEPA closure process at bulk oil terminal property.

Technician; Delta Toledo Ohio EPA (OEPA) Work Plans, Delta Fuels, Inc.—Validated data based on Level 4 laboratory reports. Assisted in writing and review of the Vapor Intrusion Status Report, the Environmental Covenant, and the RCRA Facility Investigation Report. Environmental investigation effort associated with RCRA closure activity are pursuant to OEPA closure process at bulk oil terminal property.

Field Chemist; U.S. Ecology, Detroit Service Center—Provided services for lab packing, drum sampling, demolition projects, chemical inventory, and chemical sorting for industrial waste and household hazardous waste (HHW). Scheduled employees and coordinated supplies for HHW Events throughout the year at various municipalities throughout Michigan and Ohio. Knowledgeable and compliant with department of transportation, EPA, and Occupational Safety and Health Administration regulations pertaining with waste management and handling. Maintained detailed records of projects as required for environmental compliance and internal billing. Managed relations with clients for scheduling and invoicing purposes.

Field Technician/Geoprobe Operator; Midwest Analytical Services, Inc.—Performed monitoring well installations, permanent and temporary groundwater sampling, wastewater sampling, and soil sample borings. Generated and maintained documentation including well logs, chain of custodies, and standard operating procedures for customer specific sites. Operated the geoprobe rig, a direct push method to produce soil borings. Coordinated with environmental consultants for remediation projects, Phase I and II ESAs, and monitoring projects.

DIRK S. MAMMEN, ESQ.
Principal Scientist

Education
J.D., Law—Detroit College of Law, 1996
B.S., Geological Sciences—Michigan State University, 1984

Registrations
State Bar of Michigan (P51219)
OSHA HAZWOPER 40-hour and 8-hour refresher training
Hazardous Waste Operations Supervisors and Managers Certificate
Sanitary Landfill Design Certificate
Asbestos Awareness Program Certificate No. 189-2

AREAS OF SPECIALIZATION

Geology, Hydrogeology, Soils Contamination Assessments, Groundwater Monitoring & Contaminant Assessments, Environmental Site Assessments, Property Acquisition/Transfer Environmental Management and Risk Management, Underground Storage Tank Closure & Remediation Investigations, Project Management

Dirk Mammen, Esq. is an accomplished scientist and licensed attorney having nearly 30 years of experience in the performance, coordination, and management of environmental assessment and compliance projects throughout the United States. Included among these has been work performed on behalf of the Wayne County Airport Authority at both Detroit Metro and Willow Run airports, where, since 2004, Mr. Mammen has served as the authority's principal point of contact for underground storage tank (UST) removal, spill response, assessment and compliance evaluations, drum identification and removal, and remediation of surface fuel spills, to name a few. Mr. Mammen also offers extensive experience managing a wide variety of real estate transactional due diligence assessments and ensuring compliance with the ASTM standard for environmental site assessments (ESAs) and the All Appropriate Inquiry Rule issued under the Comprehensive Environmental Response, Compensation, and Liability Act. Mr. Mammen's legal training and research skills positions him well for due diligence evaluations, evidence and document management, and risk management activities, and his expertise has been utilized in the quality assurance/quality control of hundreds of Phase I ESAs prepared on behalf of developers, communities, regulatory agencies and industrial clients nation-wide.

Project Director; Environmental Site Assessments, Various Clients—Coordinated, managed, or performed more than 1,400 ESAs for lending institutions, law firms, private industry, municipal organizations, construction developers, and private interests. Sites include vacant properties, manufacturing and industrial facilities, small to very large commercial buildings, landfill and dump sites, municipal garages, and other UST and hazardous material sites. Sites are located throughout the United States, primarily in the Midwest, upper Midwest, and Rocky Mountain regions.

Project Director; Large Scale Due Diligence Assessment, Chevron U.S.A., Inc.—Designed, coordinated, and implemented a specialized due diligence assessment process in support of a large-scale property and asset transfer, including the potential transfer of more than 60 natural gas production facilities and 1,800 natural gas wells across Michigan. Evaluation activities included site visual inspections, detailed spill history reviews, and extensive environmental database compilation.

Project Director; Demolition Assessment and Environmental Services, Wayne County Airport Authority—Directed and managed the environmental assessment and hazardous materials management processes associated with the abatement and demolition of select buildings at Detroit Metropolitan Airport. Activities included the presentation of detailed facility inspections, the preparation of abatement and demolition specifications, assistance with the demolition contractor bidding and selection process, and the performance of demolition monitoring and dust control activities.

Project Scientist; 10 Mile Drain Investigation & Remediation, Macomb County Public Works Office—Completed detailed environmental assessment activity and in-depth historical research investigation to evaluate historical and current sources of polychlorinated biphenyl (PCB) materials impacting the drain system. Performed an investigation of the 10 Mile Drain storm sewer to characterize the nature and extent of PCB contamination. The investigation consisted of soil boring placement and soil sample collection in areas immediately adjacent to the drain system, as well as stormwater and sediment monitoring within the sewer, a corridor survey (aerial photograph, interviews of local residents and historic land use review) to determine the potential source of the contamination, and an inspection of the sewer condition using closed circuit televising.

Project Scientist; Environmental Services, Wayne County Airport Authority—Performed, coordinated, and/or managed numerous environmental assessment or environmental compliance projects at both Detroit Metro Airport and Willow Run Airport, including UST removal, spill response, assessment or compliance evaluations and miscellaneous drum

identification and removal actions. Performed remediation activity associated with surface fuel spills and subsurface release during new terminal construction activity resulting from historical hydrant fuel system.

Project Manager; Bulk Oil Terminal Release and Site Reconstruction, Knight Enterprises/Delta Fuels—Managed all environmental assessment, remediation, and compliance issues resulting from a 100,000-gallon gasoline overfill event, impacting both an on- and offsite area in Toledo, Ohio. Site involved federal and state regulatory action. The secondary containment system was replaced with approximately 3,000 linear feet of high-density polyethylene liner. Managed and designed the construction and permitting for an onsite water treatment and remediation system. Provided regulatory compliance assistance, including the preparation and implementation of treatment, storage, and disposal facility closure plan; spill prevention, control, and countermeasure plan; and facility response plan.

Project Scientist; Due Diligence Manager, ITC (International Transmission)—Managed and completed all land acquisition projects related to electric utility expansion throughout the Midwest (Michigan, Iowa, Kansas, and Minnesota), including Phase I/II ESAs, baseline environmental assessments (BEAs), and Transaction Screen Plans (TSP) on a variety of sites, both active electrical utility sites and undeveloped acreage. Included corridor study assessment activity, detailed title work review, and significant area-wide impact investigations.

Project Scientist; Brownfield Redevelopment Authority, Various Michigan Counties—Performed site investigations, due diligence services, due care analyses, and other assessment services for numerous municipal brownfield redevelopment authorities throughout the lower and upper peninsulas of Michigan. Sites included manufacturing facilities, an abandoned paper production site, a power plant property, and landfill property. Facilitated Michigan Department of Environmental Quality (MDEQ) negotiated no further action (NFA) under the due care process.

Project Manager; Transformer Release and Remediation, Federal Aviation Authority—Responded to the release of transformer oil to the ground surface and subsurface as a result of vandalism at Detroit Metro Airport. Provided site assessment, soil and water remediation, and risk assessment activities. Coordinated the assessment, removal, and appropriate disposal of the electrical equipment and completed PCB risk evaluation. Presented closure documentation to the local, state, and federal regulatory agencies involved with the project.

Project Scientist; Manufactured Gas Plant (MGP) Site Assessment and Risk Evaluation, Michigan Consolidated Gas Company—Performed site investigations, exposure evaluations, and risk assessments at former MGPs as part of a complex effort to implement a plan for the investigation of 23 sites located throughout Michigan. The plan is designed to meet the company's obligations under Michigan's requirements to diligently pursue response activities. Conducted records searches and other information gathering; prepared site summary reports; prioritized all 23 for further investigation; provided oversight of a Geoprobe investigation at 9 of the 23 sites; and formulated a plan, including a budget and schedule, for response activities at all 23 sites.

Project Director; Large-Scale Area Wide Phase I ESAs, Various Clients—Completed six large-scale area wide Phase I ESAs on specific residential housing redevelopment areas in Detroit, Michigan. Each area wide assessment involved the potential acquisition of 80 to 230 vacated residential lots within certain redevelopment neighborhoods. The area wide assessment approach involved the historical and regulatory evaluation of all properties within a specific grid or block area, followed by an individual assessment of each acquisition parcel in relation to the environmental conditions of the area. A review of all available historical documentation was performed, including Sanborn fire insurance maps, historical aerial photographs, street index directories, Federal Emergency Management Agency flood zone maps, zoning documentation, building, assessment, and fire department records, and specific title documentation. Assisted with parcel identification and quality of title issues, with all parcels having been or slated to be reverted to City of Detroit ownership. Compiled comprehensive assessment reports for each assessment area, including detailed maps and parcel summaries. Prepared all applicable Michigan State Housing Development Authority (MSHDA) applications and environmental documentation for submittal. The projects were completed on time to conform to MSHDA deadlines and within budget.

Project Director/Manager; Phase II ESA Activity, Various Clients—Coordinated, managed, or performed more than 600 Phase II ESAs onsite throughout the Midwest, including industrial and commercial properties, residential properties, and rails-to-trails corridors. Sites ranged in size from very small lots to large acreage developments. Chemical impacts evaluated include petroleum products, solvents and various dense non-aqueous phase liquid (DNAPLs), PCBs, and various metals. Completed baseline environmental assessments on numerous Michigan sites.

Project Manager; Site Characterization and Investigation, Remedial Investigation/Feasibility Study (RI/FS); Property Developer (Confidential Client)—Managed and performed site investigation, RI/FS, and remedial design activities on a former solvent recycling and treatment, storage and disposal RCRA facility. Soil and groundwater impacts evaluated, with on- and offsite risk assessment.

Project Director; Site Characterization and Investigation, Remediation and Site Closure; Ryder Truck Rental, Inc.—Managed or performed all phases of site investigation activities for petroleum-related contamination at numerous Midwest locations. Activities included feasibility analysis, and remedial

JOHN J. D'ADDONA, P.E.
Principal Engineer

Education
B.S., Civil Engineering, 1976
B.S., Environmental Sciences Engineering, 1976

Registrations
Professional Engineer, Michigan, No. 27512
OSHA 40-hour and Refresher HAZWOPER training
Certified Underground Storage Tank Professional, Michigan, No. 414

AREAS OF SPECIALIZATION

Project Management, Remedial Investigations/Feasibility Studies, Engineering Design, Plans & Specifications, Remedial & Corrective Action Implementation, Brownfield Redevelopment, Demolition & Remediation Oversight, Regulatory Liaison, Community Outreach

Mr. D'Addona, P.E., has 41 years' experience in the environmental engineering field. Mr. D'Addona serves as ECT's manager of brownfield services for the Midwest, which includes both project management and technical responsibilities. His areas of expertise and experience primarily focus on brownfield redevelopment projects for communities and developers that include the facilitation and acquisition of funding sources, public outreach activities, property due diligence and remediation design and implementation activities leading to redevelopment. He has been involved with the acquisition and implementation of numerous U.S. Environmental Protection Agency (EPA) and state-funded brownfield grants/loans and grants associated with the natural environment that support brownfield redevelopment. He has lead technical teams in large scale environmental investigation, remediation design and implementation for underground storage tank and contaminant releases throughout the Midwest. Mr. D'Addona has bachelor's degrees in civil engineering and environmental sciences engineering. He is a registered professional engineer and certified underground storage tank professional in Michigan.

Project Director; Former Packard Plant Site, City of Detroit—Project director for multi-phase redevelopment of a former automobile manufacturing site. Involved with brownfield redevelopment that includes grant procurement, funding master plans, assessment activities, and remediation strategies, design and implementation.

Project Director; Former McLouth Steel Site, City of Trenton—Project director for redevelopment of former steel mill site. Involved with grant procurement, brownfield redevelopment and funding master plans, assessment activities, remediation strategies and an evaluation of the impact of a Superfund designation on the redevelopment of the site. He is currently responsible for a U.S. Forest Service phytoremediation grant that is being used to evaluate the use of trees as a viable remediation response tool on a large complex industrial site.

Project Manager; Chevy Commons (formerly Chevy in the Hole), City of Flint—Project manager for multi-faceted brownfield redevelopment project at a former 125+ acre industrial complex in downtown Flint, Michigan. Involved in all aspects of Chevy in the Hole, including grant procurement, brownfield redevelopment and funding master plans, negotiations with the EPA, and the Michigan Department of Environmental Quality (MDEQ), remediation selection, and community outreach activities. A number of remediation and redevelopment strategies utilizing multiple funding sources, including an EPA Brownfield Revolving Loan Fund (RLF) Grant, three U.S. Forest Service phytoremediation grants and an EPA Brownfields Training Grant in conjunction with Mott Community College in Flint have been initiated to first cleanup and develop a green corridor linking downtown that will bring residents to the riverfront via recreational opportunities which, in turn, will attract developers to the area.

Project Manager; Brownfield Assessment & Remediation, Allegan County—Project manager for multiple brownfield sites along the Kalamazoo River, including paper mills, marinas, and manufacturing facilities that have included Phase I and Phase II environmental site assessments (ESAs), cleanup and due care planning, hazardous materials assessments, and demolition activities.

Project Manager; Brownfield Cleanup Projects, Grand Traverse County—Project manager for EPA cleanup funds associated with the Historic Barns property which is a portion of the Grand Traverse Commons brownfield redevelopment site. Cleanup activities included hazardous materials abatement, soil removal and disposal, historic building renovation, storm water management improvements associated contaminated soil removal and recreation trail construction and community outreach.

Project Director/Manager; EPA Brownfield Assessment Grants in Michigan, Wayne, Allegan, Delta, Keweenaw & Ottawa Counties and the Downriver Community Conference—Project manager for multiple Phase I and Phase II ESAs at brownfield sites ranging in complexity from former gas stations to a paper mill.

Project Manager; Indiana EPA Brownfield RLF, City of Goshen—Project manager for key brownfield sites that include the cleanup and redevelopment of a chlorinated solvent release site that has impacted millions of gallons of groundwater beneath the city. A second site includes the reuse of a former junkyard as a stormwater management and park area.

Project Manager; Water Street Redevelopment Project (Clean Michigan Initiative [CMI] Project), City of Ypsilanti—Project manager for a major downtown brownfield redevelopment site in Ypsilanti, Michigan. Project tasks included Phase I/II ESAs; baseline environmental assessments (BEAs); due care investigation/plan; asbestos survey and abatement; engineering design; plans/specifications; contractor evaluation and selection; demolition; contaminated soil excavation, transport, and disposal; brownfield facilitation; and community outreach. These activities were completed by integrating a number of State of Michigan and EPA Brownfield Assessment, Cleanup and RLF Grant and U.S. Housing and Urban Development (HUD) dollars totaling more than $11 million.

Project Manager; Bioremediation and In Situ Chemical Oxidation of TCE (St. Johns), Federal-Mogul Corporation—Providing project management services for the feasibility study, design, and implementation of a chlorinated solvent (trichloroethylene [TCE]) enhanced bioremediation and bioaugmentation system in St. Johns, Michigan. The goal of the project is to intercept and treat the solvent plume that is migrating offsite utilizing innovative green technologies. After evaluating a number of conventional technologies, in-situ bioremediation was selected to treat the contaminated groundwater. A biobarrier was constructed across the contaminant plume to treat the passing groundwater. Dairy whey is periodically injected into the groundwater to enhance the respiration of TCE by indigenous bacteria and supplemental bacteria transforming the toxic substances to non-toxic end products. Additionally, innovative source area cleanup was completed using chemical oxidation. Highly contaminated source area soils were excavated within a building, treated in a pug mill and returned to the excavation. A no further action letter related to the source area cleanup was issued by the MDEQ.

Project Manager; EPA Brownfield Revolving Loan Fund, Downriver Community Conference, Michigan—Provided third-party oversight for multiple cleanup sites. Oversight activities included compliance with work plans and Davis-Bacon wage requirements and invoice approval consistent with grant work plans and budgets.

Project Manager; Shoemaker Facility, Federal-Mogul Corporation—Provided project management services for the investigation and remediation at an industrial facility built in 1922 in Detroit, Michigan. The Shoemaker facility began manufacturing automobile parts in 1922, just before the rapid expansion of the automobile industry. Ten underground storage tanks (USTs) were removed including the remediation of affected soils surrounding the UST excavation area. A risk analysis of remaining contamination onsite will determine the need for further response activities. Project tasks include UST registration, removal and disposal oversight, remedial investigation/feasibility study (RI/FS), City of Detroit liaison, and additional soil and excavation water remediation.

Project Manager; River's Edge Development (CMI Project), City of Traverse City—Managed a $50 million brownfield redevelopment mixed use development project that included Phase I ESAs, Phase II ESAs, baseline environmental assessments (BEAs), due care investigation/plan, riverbank stabilization and river walk construction, demolition, remediation design, implementation and oversight, brownfield facilitation, and community outreach.

Project Manager; Former Crown Vantage Paper Mill (CMI Project), City of Parchment—Managed two concurrent CMI grants to demolish a portion of the paper mill and reuse as much of the demolition debris as part of a commercial redevelopment project. Project tasks included Phase I/II ESAs, BEA, grant acquisition, due care plan, asbestos survey and abatement, plans/specifications, contractor evaluation and selection, demolition, and material handling oversight.

Project Manager; Michigan Tar Lake Superfund Site (EPA Project), Antrim County/Mancelona—Project manager for two EPA site assessment grants (Phase I and II ESAs, due care plans, brownfield plans), technical assistance grants, environmental justice grant, and assisted in helping the community receive a $6 million emergency water supply grant. The total value of these leveraged funds is more than $8 million. Managed a community outreach initiative that included high school students and the production of a film that depicts the industrial history, site cleanup, and potential reuses of the Tar Lake Superfund Site. This initiative dramatically improved community involvement in the cleanup and redevelopment process.

Project Manager; Uniroyal Site, City of Detroit—Managed a remedial investigation and focused feasibility study for a +40-acre site located along the Detroit River. On behalf of the city, participated in the review of the proposed interim remedial action plan submitted by the potentially liable party to the MDEQ.

Brownfield Redevelopment Facilitator; Ford Motor Company—Assisted with environmental and economic development activities at the Ford Rouge Plant in Dearborn, Michigan. Activities were instrumental in Ford Motor Company's overall receipt of a $30 million economic retention and stimulus package.

Program Manager; Multiple Projects, Consumers Power Company—Program manager for petroleum release sites company-wide. Responsibilities included regulatory reporting, investigation, feasibility studies, remedial alternatives analysis and selection, plans and specifications, contractor selection,

remediation oversight, operation and maintenance oversight, and site closure.

Environmental Consulting & Technology, Inc.
1155 Brewery Park Blvd., Suite 115, Detroit, Michigan 48207

PHASE II
ENVIRONMENTAL SITE ASSESSMENT

for
Pittsfield Charter Township

of the
Undeveloped Parcel (3.98 acres)
West Waters Road and Oak Valley Drive
Ann Arbor, Michigan 48103

Detroit, Michigan

October 15, 2018

ECT No. 180469-0200

Complex Challenges . . . PRACTICAL SOLUTIONS

Signature(s) of Environmental Professional(s)

The dual signatory process is an integral part of Environmental Consulting & Technology, Inc.'s (ECT's) Document Review Policy No. 9.03. All ECT documents undergo technical/peer review prior to dispatching these documents to any outside entity.

The environmental assessment described herein was conducted by the undersigned employees of ECT. ECT's investigation consisted solely of the activities described in the Introduction of this report, and in accordance with the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment, as applicable.

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

This document has been authored and reviewed by the following employees:

Maura Gibbons	Dirk Mammen
Author	Peer Review
Signature	Signature
October 15, 2018	October 15, 2018
Date	Date

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FIGURES

Figure 1—Site Location Map
Figure 2—Site and Surrounding Properties Map

Figure 3—Boring Location Map

TABLES

Table 1—Soil Analytical Summary

APPENDICES

Appendix A—Soil Boring Logs
Appendix B—Analytical Laboratory Report

List of Acronyms

ASTM	American Society for Testing and Materials
BEA	Baseline Environmental Assessment
bgs	Below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CREC	Controlled Recognized Environmental Condition
DC	Direct Contact
DWP	Drinking Water Protection
ECT	Environmental Consulting & Technology, Inc.
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
GRCC	Generic Residential Cleanup Criteria
GSI	Groundwater Surface Water Interface
HREC	Historical Recognized Environmental Condition
MDEQ	Michigan Department of Environmental Quality
NREPA	Natural Resources and Environmental Protection Act
PID	Photoionization Detector
ppm	Part per million
REC	Recognized Environmental Condition
ug/kg	Micrograms per kilograms

1.0 Summary

Environmental Consulting & Technology, Inc. (ECT) performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standard E 1527-13 for Pittsfield Charter Township (the Client) of the approximately 3.98-acre parcel located at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Charter Township, Washtenaw County, Michigan (herein referred to as the Subject Property). The assessment identified one (1) Recognized Environmental Condition (REC), no Historical Recognized Environmental Conditions (HRECs), and no Controlled Recognized Environmental Conditions (CRECs) in connection with the investigated parcel:

- A geotechnical survey conducted on the Subject Property indicated that the site has been filled with compacted sand and occasional broken brick and concrete. There were no records available that provided information as to when the site was filled, the origin of the fill material, or if the fill material has been characterized for potential contaminants.

To verify the presence or absence of potential environmental impacts related to the fill material, ECT was retained by the Client to perform a Phase II ESA of the Subject Property. A Site Location Map is provided as **Figure 1.**

The Client is the prospective buyer of the Subject Property. The findings of the environmental assessment activities are summarized in the following sections and will be used by the Client to evaluate the Subject Property's status as a "*facility*" under Part 201 of the Natural Resources and Environmental Protection Act (NREPA), Public Act 451 of 1994, as amended. ECT has performed a Phase II ESA at the Subject Property in conformance with the scope and limitations of ASTM Practice E 1903-11. The purpose of the Phase II ESA is to evaluate the potential nature and extent of impacts to the subsurface at the Subject Property due to the historical placement of fill material.

The Phase II ESA included the completion of four (4) soil borings and the collection of four (4) soil samples, submitted to an analytical laboratory for evaluation. Using a hand auger, four (4) soil borings were advanced to the shallow subsurface to evaluate for potential contaminants in connection with the fill material. Based on the results of this Phase II ESA completed at the Subject Property, ECT provides the following conclusions:

- Concentrations of arsenic and chromium from the soil samples collected in September 2018 exceed the MDEQ Part 201 GRCC, but do not exceed the MBSS background concentrations established for the Huron-Erie Glacial Lobe Area.

- Concentrations of selenium from the soil samples collected in September 2018 exceed the MDEQ Part 201 GRCC for drinking water protection and groundwater surface interface, as well as the MBSS background concentrations established for the Huron-Erie Glacial Lobe Area. While the concentrations of selenium were detected above the MBSS background concentrations, it is possible that the presence of selenium may be representative of a localized higher background concentration and not indicative of the presence of contamination. In addition, the Township does not intend to use

groundwater on the site as a drinking water source and does not intend to create a surface water feature that will allow groundwater to vent, thus these potential exposure pathways are not relevant. Although the presence of elevated concentrations of selenium may not be indicative of the presence of contamination, its presence does allow for *"facility"* designation of the Subject Property under Part 201 of the NREPA, allowing for the preparation and submittal to the MDEQ of a Baseline Environmental Assessment (BEA), affording the Client the appropriate Part 201 environmental liability protections.

2.0 Introduction

ECT has completed a Phase II ESA of the Subject Property, situated on the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Charter Township, Washtenaw County, Michigan. The Subject Property is part of the Northwest ¼ of Section 7, Township 3 South, Range 6 East, in Washtenaw County, Michigan. The Site Location Map is provided as **Figure 1**.

The Subject Property is comprised of a single parcel containing approximately 3.98 acres of undeveloped land, situated at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Township, Michigan.

The findings of the Phase I and II ESA activities are summarized in the following sections and will be used to evaluate the Subject Property's status as a "*facility*," under Part 201 of the NREPA, Public Act 451 of 1994, as amended. This Phase II ESA report is intended to follow ASTM E1903-11, *the Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

The purpose of ASTM Practice E1903-11 is to conduct a Phase II ESA of a parcel of property with respect to the presence of, or the likely presence of substances, including but not limited to those required per the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA; 42 U.S.C. §9601) for documenting the assessment scope and the constraints on the conduct of the assessment process.

2.1 Phase I ESA Findings

ECT has performed a Phase I ESA in conformance with the scope and limitations of ASTM Standard E 1527-13 of the Subject Property. The assessment identified one (1) REC, no HRECs, and no CRECs in connection with the Subject Property.

- A geotechnical survey conducted on the Subject Property indicated that the site has been filled with compacted sand and occasional broken brick and concrete. There were no records available that provided information as to when the site was filled, the origin of the fill material, or if the fill material has been characterized for potential contaminants.

2.2 Detailed Scope of Services

To further evaluate potential historical impacts related to the identified REC, ECT completed the following scope of services during September 2018 on the Subject Property:

- Using hand auger methods, advanced four (4) soil borings to a depth of approximately three (3) feet below ground surface (bgs). The borings were advanced into the shallow subsurface of the Subject Property to investigate the potential impacts of the fill material. One (1) soil sample was collected from each boring location and submitted to an analytical laboratory to be analyzed for PCBs and Michigan metals using the Environmental Protection Agency (EPA) Method 6020A.

2.3 User Reliance

This Phase II ESA was conducted for the use of and reliance by the Client and their assignees, including for the benefit of a Michigan Natural Resources Trust Fund grant, and may be relied upon by these parties only. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from ECT. ECT is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

3.0 Background Information

3.1 Location and Legal Description

The Subject Property is comprised of a single parcel containing approximately 3.98 acres of undeveloped land, situated at the southwest corner of the intersection of West Waters Road and Oak Valley Drive, in Pittsfield Township, Michigan. The Subject Property is part of the Northwest ¼ of Section 7, Township 3 South, Range 6 East, in Washtenaw County, Michigan. The legal description of the Subject Property is below:

Parcel #L-12-07-200-003: "*OLD SID – L-12-007-019-00 PI 7-5H-1 COM AT N ¼ COR OF SEC 7, TH W 649.95 FT ON N/L OF SECTO POB, TH W 292 FT ON SAID N/L, TH DEFL 89-42-30 LFT 594 FT, TH DEFL 90-17-30 LFT 292 FT, TH DEFL 89-42-30 LFT 594 FT TO POB PART NW ¼ SEC 7 T3S R6E 3.98 AC."

3.2 Site and Vicinity General Characteristics

The Subject Property is situated along the south side of West Waters Road and along the west side of Oak Valley Drive, in Pittsfield Charter Township, Michigan. The Subject Property has an approximate elevation of 917 feet above sea level and is topographically flat. During the site visit, the Subject Property was observed to be approximately three (3) feet higher than the sidewalk bordering to the north. The surrounding area is a mixture of residential and commercial properties.

3.3 Current Use of the Property

The Subject Property is currently undeveloped, covered by grass and densely vegetated woodland. Overhead utility lines transect through the south-central portion of the Subject Property, and a drain is located in the vegetated areas throughout the southern portion of the Subject Property. A Site and Surrounding Properties Map is provided in **Figure 2.**

3.4 Previous Site Investigations

Previous site investigations were not provided to ECT.

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

3.5.1 General Descriptions of Structures

No structures currently occupy the Subject Property.

3.5.2 Roads

The Subject Property can be accessed by West Waters Road to the north and by Oak Valley Drive to the east.

3.5.3 Potable Water Supply

The Subject Property is currently not connected to potable water supplies. However, the surrounding properties are supplied with potable water from Ypsilanti Community Utilities Authority.

3.5.4 Sewage Disposal System

The Subject Property is currently not connected to sanitary sewer service. However, the surrounding properties are supplied with sanitary sewer service from Ypsilanti Community Utilities Authority.

3.6 Current Uses of the Adjoining Properties

The Subject Property is bordered to the north by West Waters Road and to the east by Oak Valley Drive. Opposite of West Waters Road, residential properties are observed in the north direction. Opposite of Oak Valley Drive, the east adjoining property is commercially developed and occupied by a mixed retail structure, including restaurants, salons, and a grocery store. The Subject Property is bordered to the south by undeveloped land; a residential dwelling is observed further south. A residential property, occupied by a dwelling, a garage, and a shed, borders the Subject Property to the west.

4.0 Methods

4.1 Soil Sampling

On September 12, 2018, ECT collected soil samples by advancing four (4) soil borings using hand auger methods to a depth of three (3) feet bgs. Following the retrieval of each soil interval, soils were described and logged by a field technician in accordance with the Unified Soil Classification System and field screened for ionizable volatile organic compounds using a MiniRae 3000 photoionization detector (PID) equipped with a 10.6 electron volt lamp. The PID has a minimum detection limit of one part per million (ppm) and was calibrated daily prior to usage. Soil samples were collected for laboratory analysis based on soil type, sample depth, visual observations, and screening results. At the conclusion of sampling activities, all soil borings were backfilled with the original soil cuttings.

Using a hand auger, soil borings HA-1 through HA-4 were advanced to the shallow subsurface to evaluate for potential contaminants in connection with the fill material on the Subject Property. The Boring Location Map is provided as **Figure 3**. One (1) soil sample was collected from each boring, and the samples were analyzed for PCBs and Michigan metals using EPA Method 6020A. Based on low PID screening readings, the soil samples were not analyzed for volatile organic compounds and polynuclear aromatic hydrocarbons. Soil samples submitted for laboratory analyses were placed in an ice-filled cooler for storage and picked up the following day by a courier of the analytical laboratory, Pace Analytical.

4.2 Analytical Laboratory Testing Program

Samples collected during soil boring activities were submitted under chain-of-custody to Pace Analytical for quantitative analyses. The number of samples submitted for analytical laboratory testing and the parameters evaluated are summarized in the table below:

Location Code	Area of Interest	Media	**PCBs** Method 6020A	**Michigan metals** Method 6020A
HA-1 through HA-4	Fill Material	Soil	4	4

5.0 Results

The following sections discuss the results of this Phase II ESA.

5.1 Soil Lithology and Hydrogeology

Boring logs documenting soil conditions observed during ECT's September 2018 Phase II ESA investigation activities are attached as **Appendix A**.

Borings HA-1 through HA-4 were advanced on the grass of the Subject Property to approximately three (3) feet bgs. A rock refusal was encountered at HA-2 at approximately two and half (2.5) feet bgs. Soil boring HA-4 was advanced to two (2) feet bgs because the fill material appeared to end just below one and half (1.5) feet bgs.

Below the grass, dark brown sand was observed within the upper half foot in all soil borings. Below the dark brown sand, brown sand with little to some clay was encountered in all soil borings; the brown sand was observed to the bottom of soil borings HA-2 and HA-3. A brick fragment was observed in soil boring HA-3 at approximately 2.5 feet bgs. Below the brown sand layer, brown sand and gray clay was observed at 2.5 and 1.5 feet bgs in soil borings HA-1 and HA-4, respectively, until the bottom of the borings. Elevated PID readings, odors, and staining were not observed in any of the soil borings.

5.2 Soil Analytical Results

The Soil Analytical Summary is provided as **Table 1** and compares the results to applicable the MDEQ Part 201 GRCC. Although several results exceed the GRCC, the MDEQ allows comparison of these concentrations to a regionally based criteria that is more reflective of naturally occurring metals based on the local glacial geology. As such, these results are compared to the Michigan Background Soil Survey (MBSS) for topsoil within the Huron-Erie Glacial Lobe Area. A summary of the analytical soil results is presented below:

- Soil samples collected from borings HA-1 through HA-4 were analyzed for PCBs and Michigan metals to evaluate for potential contaminants from the fill material. Based on the absence of elevated PID screening readings, the soil samples were not analyzed for volatile organic compounds and polynuclear aromatic hydrocarbons.

- Arsenic was detected in all soil samples at concentrations ranging between 6,300 to 9,700 micrograms per kilograms (ug/kg). Although these concentrations exceed the GRCC for drinking water protection (DWP) (4,600 ug/kg), groundwater surface water interface (GSI) (4,600 ug/kg) criteria, and direct contact (DC) (7,600 ug/kg) criteria at locations HA-1 and HA-2, they do not exceed the MBSS background criteria (11,000 ug/kg).

- Chromium (total) was detected in all soil samples at concentrations ranging between 17,800 to 21,900 ug/kg. Although the concentrations of chromium (total) in the soil samples collected from boring HA-

2, HA-3, and HA-4 exceed the GSI (3,300 ug/kg) criteria, they do not exceed the MBSS background criteria (37,000 ug/kg).

- Selenium was detected in all soil samples at concentrations ranging between 6,000 to 7,700 ug/kg. The concentrations of selenium in all soil samples exceed the DWP (4,000 ug/kg) and GSI (400 ug/kg) criteria of the GRCC, as well as the MBSS background criteria (3,900 – 4,700 ug/kg).

- Other metals were detected in the soil samples; however, the concentrations were below their respective GRCC.

- PCBs were not detected in the soil samples.

The Analytical Laboratory Report is provided as **Appendix B**.

6.0 Opinion and Conclusions

Based on the results of the environmental site assessments completed at the Subject Property, ECT has concluded the following:

- Concentrations of arsenic and chromium from the soil samples collected in September 2018 exceed the MDEQ Part 201 GRCC, but do not exceed the MBSS background concentrations established for the Huron-Erie Glacial Lobe Area.

- Concentrations of selenium from the soil samples collected in September 2018 exceed the MDEQ Part 201 GRCC for drinking water protection and groundwater surface interface, as well as the MBSS background concentrations established for the Huron-Erie Glacial Lobe Area. While the concentrations of selenium were detected above the MBSS background concentrations, it is possible that the presence of selenium may be representative of a localized higher background concentration and not indicative of the presence of contamination. In addition, the Township does not intend to use groundwater on the site as a drinking water source and does not intend to create a surface water feature that will allow groundwater to vent, thus these potential exposure pathways are not relevant. Although the presence of elevated concentrations of selenium may not be indicative of the presence of contamination, its presence does allow for *"facility"* designation of the Subject Property under Part 201 of the NREPA, allowing for the preparation and submittal to the MDEQ of a Baseline Environmental Assessment (BEA), affording the Client the appropriate Part 201 environmental liability protections.

7.0 References

ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

ASTM Practice E1903-11, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

Phase I Environmental Site Assessment: Undeveloped Parcel (3.98 acres), West Waters Road and Oak Valley Drive, Ann Arbor, Michigan, prepared by Environmental Consulting & Technology, Inc., August 10, 2018.

Soils Investigation: Condominium Development, Waters Road and Oak Valley Drive, prepared by McDowell and Associates, December 30, 1998.

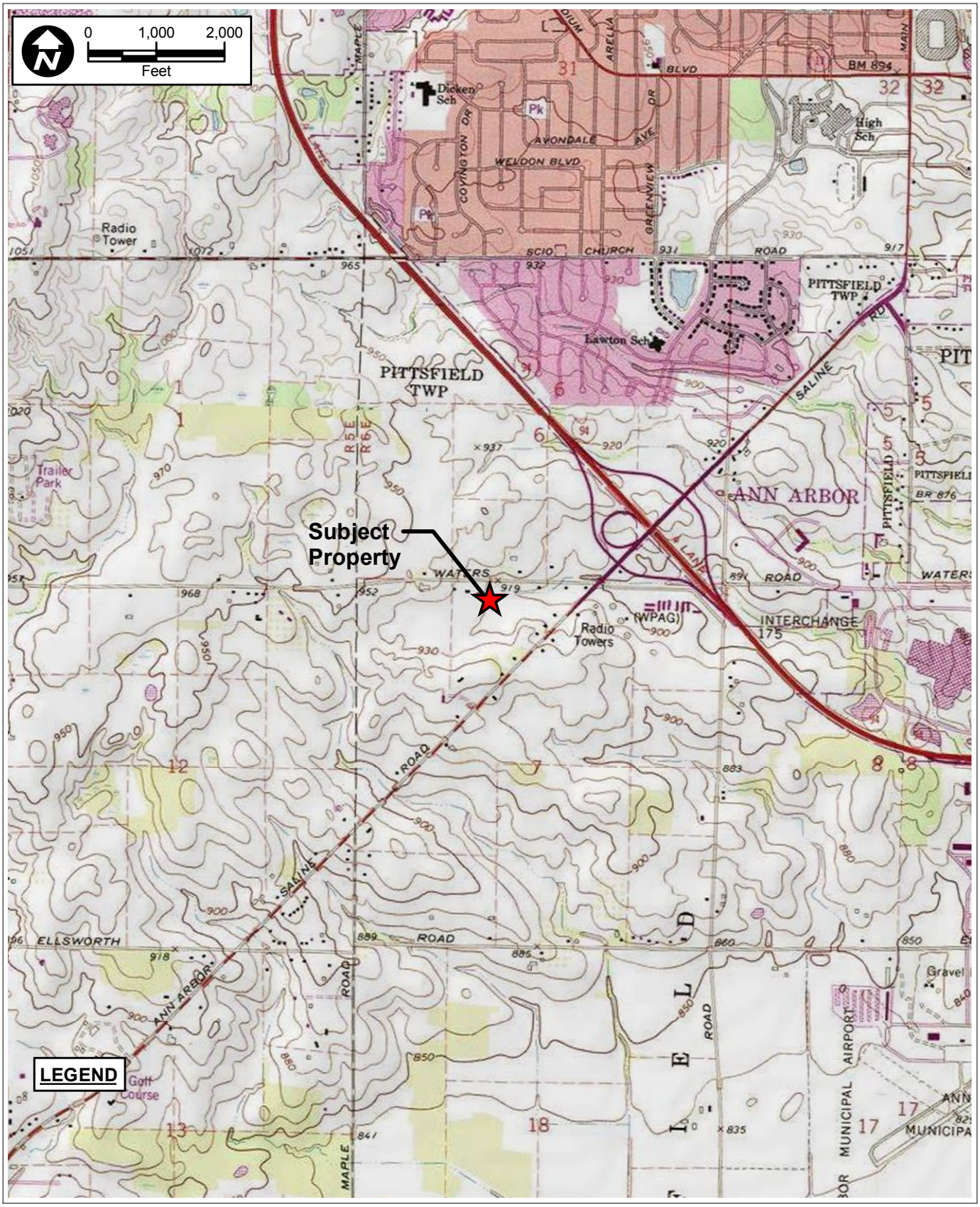

FIGURE 1.
SITE LOCATION MAP
WATERS ROAD/OAK VALLEY DRIVE PROPERTY
PITTSFIELD TOWNSHIP, MI. 48108

Sources: ECT, 2018.

ECT Environmental Consulting & Technology, Inc.

P:\Pittsfield Township\Oak Valley Property\Phase I ESA\GIS\Pittsfield_Site_Surr.mxd

rhiguchi 7/25/2018 1:15:46 PM

FIGURE 2.
SITE AND SURROUNDING PROPERTIES MAP
WATERS ROAD/OAK VALLEY DRIVE PROPERTY
PITTSFIELD TOWNSHIP, MI. 48108

Sources: ECT, 2018.

ECT Environmental Consulting & Technology, Inc.

X:\Pittsfield Township\Oak Valley Property 180469\Phase I ESA\GIS\Pittsfield_Borings.mxd

mgibbons 9/26/2018 11:55:12 AM

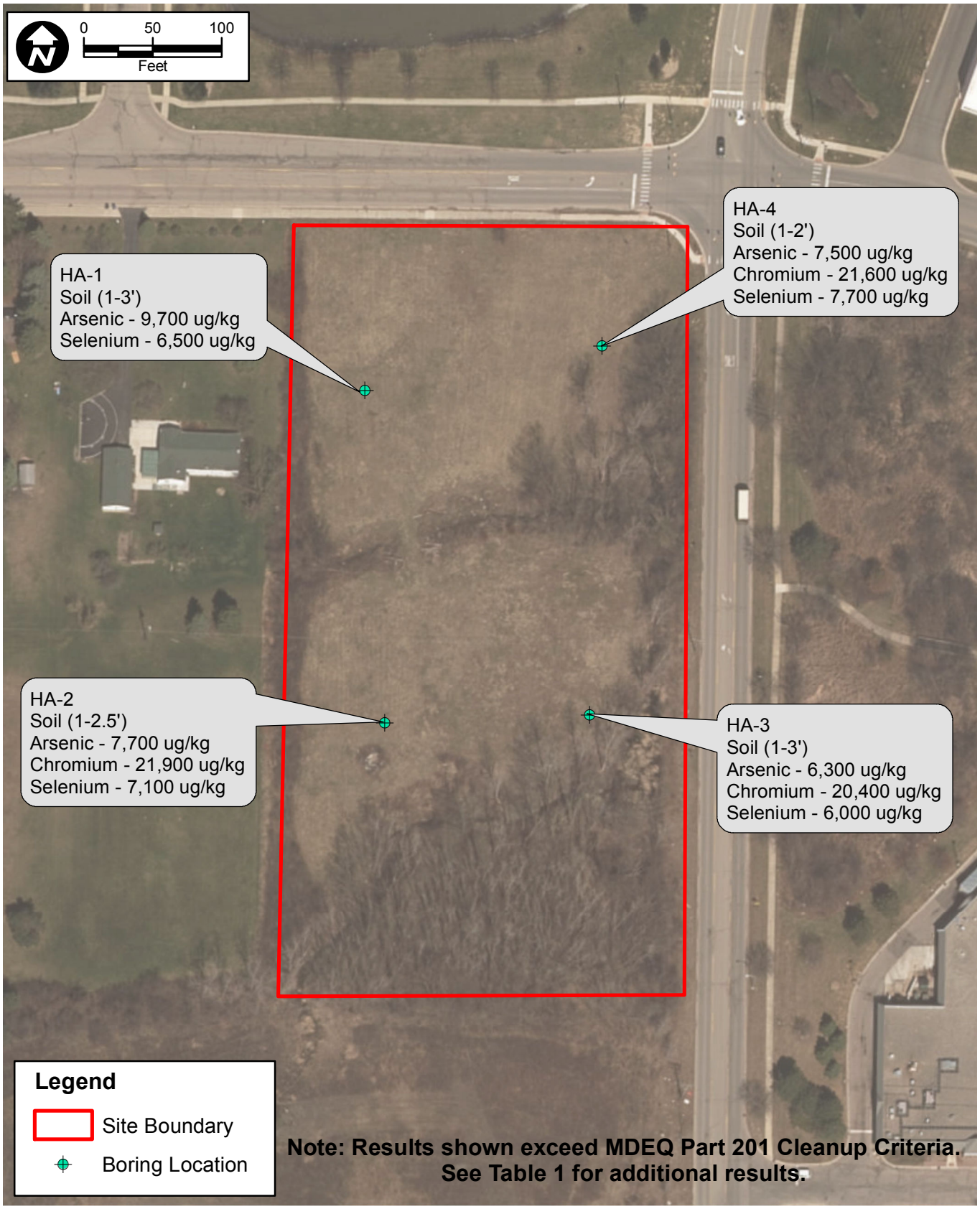

FIGURE 3.
BORING LOCATION MAP
WATERS ROAD/OAK VALLEY DRIVE PROPERTY
PITTSFIELD TOWNSHIP, MI. 48108

Sources: ECT, 2018.

ECT Environmental Consulting & Technology, Inc.

Table 1. Soil Analytical Summary

West Waters Road and Oak Valley Drive

Matrix: Soil

Cleanup Criteria: Residential

		MBSS (2015)			Part 201 Cleanup Criteria (December 2013)							Sample Location			
		Huron-Erie Lobe			Residential Criteria										
	Chemical Abstract Service #	Topsoil (2 SD)	Sand (2 SD)	Clay (2 SD)	Statewide Default Background	Drinking Water Protection	Groundwater Surface Water Interface	Soil Volatilization to Indoor Air	Infinite Source Volatile Soil Inhalation	Direct Contact	Soil Saturation Concentration Screening Levels	HA-1 (1-3') 9/12/18	HA-2 (1-2.5') 9/12/18	HA-3 (1-3') 9/12/18	HA-4 (1-2') 9/12/18
Metals, ug/kg - Method 6020															
Arsenic	7440382	14,900	26,300	31,400	**5,800**	**4,600**	**4,600**	NLV	NLV	**7,600**	NA	9,700	7,700	6,300	7,500
Barium	7440393	261,000	199,000	227,000	**75,000**	1,300,000	440,000	NLV	NLV	37,000,000	NA	60,000	79,200	69,800	91,300
Cadmium	7440439	2,000	2,000	3,100	1,200	6,000	3,000	NLV	NLV	550,000	NA	270	400	310	350
Chromium (Total)	Varies	37,000	30,400	77,000	**18,000**	30,000	**3,300**	NLV	NLV	2,500,000	NA	17,800	21,900	20,400	21,600
Copper	7440508	52,500	23,500	46,900	32,000	5,800,000	75,000	NLV	NLV	20,000,000	NA	18,100	15,800	12,700	17,500
Lead	7439921	43,900	24,100	26,200	21,000	700,000	2,500,000	NLV	NLV	400,000	NA	10,600	16,700	15,600	8,700
Mercury	Varies	160	120	580	130	1,700	50	48,000	52,000	160,000	NA	nd	nd	nd	nd
Selenium	7782492	**4,700**	**3,900**	**1,200**	**410**	**4,000**	**400**	NLV	NLV	2,600,000	NA	**6,500**	**7,100**	**6,000**	**7,700**
Silver	7440224	1,600	1,200	6,000	1,000	4,500	100	NLV	NLV	2,500,000	NA	nd	nd	nd	nd
Zinc	7440666	122,000	85,800	102,000	**47,000**	2,400,000	170,000	NLV	NLV	170,000,000	NA	65,800	63,600	64,500	56,700
PCBs, ug/kg - Method 6020															
Polychlorinated biphenyls (PCBs)	1336363					NLL	NLL	3,000,000	240,000	4,000	NA	nd	nd	nd	nd

Note:
MBSS = Michigan Background Soil Survey
NA = insufficent data to develop criterion
nd = not detected
NLV = not likely to volatilize
SD = arithmetic or geometric standard deviation, not applicable for nonparametric
shaded background or criterion indicates that a sample of higher concentration was detected
shaded result indicates that the sample exceeds BOTH the MBSS background AND at least one criterion

Assumptions:
hardness estimate for receiving waters = 150 mg/L
protective for surface water that is used as a drinking water source

LOG OF BORING HA-1

Pittsfield Charter Township
Project #180469-0200

Date Completed : 9/12/18
Hole Diameter : 2 inches
Drilling Company : ECT
Drilling Method : Hand Auger
Company Rep. : Maura Gibbons

Boring Location :
West Waters Road and Oak Valley Drive
Pittsfield Charter Township, Michigan

Depth in Feet	USCS	GRAPHIC	PID (ppm)	Recovery (in feet)	Sample ID	DESCRIPTION	REMARKS	Water Level
0.0	SW		0.5			dark brown, medium to coarse grained, moist SAND, with organic material		
0.5	SW		0.9			brown, fine to coarse grained, moist SAND, some gray CLAY, trace GRAVEL		
1.0	SW		0.9					
1.5	SW		1.0	N/A				
2.0	SW		1.0		HA-1(1-3')			
2.5	SC		1.2			brown, fine to coarse grained, moist SAND and gray CLAY, trace GRAVEL		
3.0						End of Boring at 3' bgs		

LOG OF BORING HA-2

Pittsfield Charter Township
Project #180469-0200

Date Completed : 9/12/18
Hole Diameter : 2 inches
Drilling Company : ECT
Drilling Method : Hand Auger
Company Rep. : Maura Gibbons

Boring Location :
West Waters Road and Oak Valley Drive
Pittsfield Charter Township, Michigan

Depth in Feet	USCS	GRAPHIC	PID (ppm)	Recovery (in feet)	Sample ID	DESCRIPTION	REMARKS	Water Level
0.0	SW		0.6			dark brown, medium to coarse grained, moist SAND, with organic material		
0.5	SW		0.4			brown, fine to coarse grained, moist SAND, some GRAVEL, little brown CLAY, with organic material	Rock encountered at 0.5' bgs. The remainder of the boring was slightly slanted towards the west to bypass the rock.	
1.0			0.2	N/A				
1.5			0.5		HA-2(1-2.5')			
2.0			1.2					
2.5						Rock Refusal: End of Boring at 2.5' bgs		
3.0								

LOG OF BORING HA-3

Pittsfield Charter Township
Project #180469-0200

Date Completed : 9/12/18
Hole Diameter : 2 inches
Drilling Company : ECT
Drilling Method : Hand Auger
Company Rep. : Maura Gibbons

Boring Location :
West Waters Road and Oak Valley Drive
Pittsfield Charter Township, Michigan

Depth in Feet	USCS	GRAPHIC	PID (ppm)	Recovery (in feet)	Sample ID	DESCRIPTION	REMARKS	Water Level
0.0	SW		0.0			dark brown, medium to coarse grained, moist SAND, with organic material		
0.5	SW		0.1			brown, fine to coarse grained, moist SAND, little GRAVEL, little brown CLAY, with organic material		
1.0			0.2					
1.5				N/A				
			0.4					
2.0					HA-3(1-3')			
			0.6					
2.5							Brick fragment observed at 2.5' bgs.	
			0.4					
3.0						End of Boring at 3' bgs		

LOG OF BORING HA-4

Pittsfield Charter Township
Project #180469-0200

Date Completed : 9/12/18
Hole Diameter : 2 inches
Drilling Company : ECT
Drilling Method : Hand Auger
Company Rep. : Maura Gibbons

Boring Location :
West Waters Road and Oak Valley Drive
Pittsfield Charter Township, Michigan

Depth in Feet	USCS	GRAPHIC	PID (ppm)	Recovery (in feet)	Sample ID	DESCRIPTION	REMARKS	Water Level
0.0	SW		0.3	N/A		dark brown, medium to coarse grained, moist SAND, with organic material		
0.5	SW		0.2			brown, fine to coarse grained, moist SAND, some gray CLAY, trace GRAVEL, with organic material		
1.0			0.4					
1.5					HA-4(1-2')			
	SC		0.5			brown, fine to coarse grained, moist SAND and gray CLAY, trace GRAVEL, with organic material		
2.0						End of Boring at 2' bgs		
2.5								
3.0								

Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

September 26, 2018

Ryan Higuchi
Environmental Consulting & Technology, Inc.
2200 Commonwealth
Ann Arbor, MI 48105

RE: Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Dear Ryan Higuchi:
Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Hall
brian.hall@pacelabs.com
(616)975-4500
Project Manager

Enclosures

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Pace Analytical Services, LLC
5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

CERTIFICATIONS

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512
Minnesota Department of Health, Certificate #1385941
Arkansas Department of Environmental Quality, Certificate #18-046-0
Georgia Environmental Protection Division, Stipulation
Illinois Environmental Protection Agency, Certificate #004325
Michigan Department of Environmental Quality, Laboratory #0034
New York State Department of Health, Serial #57971 and 57972
North Carolina Division of Water Resources, Certificate #659
Virginia Department of General Services, Certificate #9780
Wisconsin Department of Natural Resources, Laboratory #999472650
U.S. Department of Agriculture Permit to Receive Soil, Permit #P330-17-00278

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Grand Rapids, MI 49512
(616)975-4500

SAMPLE SUMMARY

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4617639001	**HA-1 (1-3')**	Solid	09/12/18 09:40	09/13/18 18:15
4617639002	**HA-2 (1-2.5')**	Solid	09/12/18 10:20	09/13/18 18:15
4617639003	**HA-3 (1-3')**	Solid	09/12/18 10:45	09/13/18 18:15
4617639004	**HA-4 (1-2')**	Solid	09/12/18 11:20	09/13/18 18:15

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SAMPLE ANALYTE COUNT

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4617639001	**HA-1 (1-3')**	EPA 8082A	JLB	9
		EPA 6020A	NHAM	9
		EPA 7471B	KLV	1
		SM 2540 G-11/3550	NS1	1
4617639002	**HA-2 (1-2.5')**	EPA 8082A	JLB	9
		EPA 6020A	NHAM	9
		EPA 7471B	KLV	1
		SM 2540 G-11/3550	NS1	1
4617639003	**HA-3 (1-3')**	EPA 8082A	JLB	9
		EPA 6020A	NHAM	9
		EPA 7471B	KLV	1
		SM 2540 G-11/3550	NS1	1
4617639004	**HA-4 (1-2')**	EPA 8082A	JLB	9
		EPA 6020A	NHAM	9
		EPA 7471B	KLV	1
		SM 2540 G-11/3550	NS1	1

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5560 Corporate Exchange Ct. SE
Grand Rapids, MI 49512
(616)975-4500

ANALYTICAL RESULTS

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Sample: HA-1 (1-3') **Lab ID: 4617639001** Collected: 09/12/18 09:40 Received: 09/13/18 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE	Analytical Method: EPA 8082A Preparation Method: EPA 3545A							
PCB-1016 (Aroclor 1016)	**<0.036**	mg/kg	0.036	1	09/17/18 08:35	09/19/18 21:43	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.036**	mg/kg	0.036	1	09/17/18 08:35	09/19/18 21:43	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.036**	mg/kg	0.036	1	09/17/18 08:35	09/19/18 21:43	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.036**	mg/kg	0.036	1	09/17/18 08:35	09/19/18 21:43	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.036**	mg/kg	0.036	1	09/17/18 08:35	09/19/18 21:43	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.036**	mg/kg	0.036	1	09/17/18 08:35	09/19/18 21:43	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.036**	mg/kg	0.036	1	09/17/18 08:35	09/19/18 21:43	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	74	%.	45-135	1	09/17/18 08:35	09/19/18 21:43	2051-24-3	
Tetrachloro-m-xylene (S)	70	%.	56-123	1	09/17/18 08:35	09/19/18 21:43	877-09-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050B							
Arsenic	**9.7**	mg/kg	0.54	5	09/18/18 06:37	09/21/18 11:32	7440-38-2	
Barium	**60.0**	mg/kg	5.4	50	09/18/18 06:37	09/21/18 11:30	7440-39-3	
Cadmium	**0.27**	mg/kg	0.054	1	09/18/18 06:37	09/21/18 10:02	7440-43-9	
Chromium	**17.8**	mg/kg	0.54	5	09/18/18 06:37	09/21/18 11:32	7440-47-3	
Copper	**18.1**	mg/kg	0.54	5	09/18/18 06:37	09/21/18 11:32	7440-50-8	
Lead	**10.6**	mg/kg	0.54	5	09/18/18 06:37	09/21/18 11:32	7439-92-1	
Selenium	**6.5**	mg/kg	0.54	5	09/18/18 06:37	09/21/18 11:32	7782-49-2	
Silver	**<0.054**	mg/kg	0.054	1	09/18/18 06:37	09/21/18 10:02	7440-22-4	
Zinc	**65.8**	mg/kg	54.0	50	09/18/18 06:37	09/21/18 11:30	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**<0.056**	mg/kg	0.056	1	09/24/18 11:04	09/25/18 10:11	7439-97-6	
Percent Moisture	Analytical Method: SM 2540 G-11/3550							
Percent Moisture	**12.0**	%	0.10	1		09/17/18 15:10		

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ANALYTICAL RESULTS

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Sample: HA-2 (1-2.5') **Lab ID: 4617639002** Collected: 09/12/18 10:20 Received: 09/13/18 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE	Analytical Method: EPA 8082A Preparation Method: EPA 3545A							
PCB-1016 (Aroclor 1016)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 21:55	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 21:55	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 21:55	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 21:55	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 21:55	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 21:55	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 21:55	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	75	%.	45-135	1	09/17/18 08:35	09/19/18 21:55	2051-24-3	
Tetrachloro-m-xylene (S)	79	%.	56-123	1	09/17/18 08:35	09/19/18 21:55	877-09-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050B							
Arsenic	**7.7**	mg/kg	0.58	5	09/18/18 06:37	09/21/18 11:37	7440-38-2	
Barium	**79.2**	mg/kg	5.8	50	09/18/18 06:37	09/21/18 11:35	7440-39-3	
Cadmium	**0.40**	mg/kg	0.058	1	09/18/18 06:37	09/21/18 10:08	7440-43-9	
Chromium	**21.9**	mg/kg	0.58	5	09/18/18 06:37	09/21/18 11:37	7440-47-3	
Copper	**15.8**	mg/kg	0.58	5	09/18/18 06:37	09/21/18 11:37	7440-50-8	
Lead	**16.7**	mg/kg	0.58	5	09/18/18 06:37	09/21/18 11:37	7439-92-1	
Selenium	**7.1**	mg/kg	0.58	5	09/18/18 06:37	09/21/18 11:37	7782-49-2	
Silver	**<0.058**	mg/kg	0.058	1	09/18/18 06:37	09/21/18 10:08	7440-22-4	
Zinc	**63.6**	mg/kg	57.7	50	09/18/18 06:37	09/21/18 11:35	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**<0.056**	mg/kg	0.056	1	09/24/18 11:04	09/25/18 10:41	7439-97-6	
Percent Moisture	Analytical Method: SM 2540 G-11/3550							
Percent Moisture	**14.0**	%	0.10	1		09/17/18 15:12		

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ANALYTICAL RESULTS

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Sample: HA-3 (1-3') **Lab ID: 4617639003** Collected: 09/12/18 10:45 Received: 09/13/18 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE	Analytical Method: EPA 8082A Preparation Method: EPA 3545A							
PCB-1016 (Aroclor 1016)	**<0.039**	mg/kg	0.039	1	09/17/18 08:35	09/19/18 22:06	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.039**	mg/kg	0.039	1	09/17/18 08:35	09/19/18 22:06	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.039**	mg/kg	0.039	1	09/17/18 08:35	09/19/18 22:06	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.039**	mg/kg	0.039	1	09/17/18 08:35	09/19/18 22:06	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.039**	mg/kg	0.039	1	09/17/18 08:35	09/19/18 22:06	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.039**	mg/kg	0.039	1	09/17/18 08:35	09/19/18 22:06	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.039**	mg/kg	0.039	1	09/17/18 08:35	09/19/18 22:06	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	76	%.	45-135	1	09/17/18 08:35	09/19/18 22:06	2051-24-3	
Tetrachloro-m-xylene (S)	79	%.	56-123	1	09/17/18 08:35	09/19/18 22:06	877-09-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050B							
Arsenic	**6.3**	mg/kg	0.56	5	09/18/18 06:37	09/21/18 11:41	7440-38-2	
Barium	**69.8**	mg/kg	5.6	50	09/18/18 06:37	09/21/18 11:39	7440-39-3	
Cadmium	**0.31**	mg/kg	0.056	1	09/18/18 06:37	09/21/18 10:10	7440-43-9	
Chromium	**20.4**	mg/kg	0.56	5	09/18/18 06:37	09/21/18 11:41	7440-47-3	
Copper	**12.7**	mg/kg	0.56	5	09/18/18 06:37	09/21/18 11:41	7440-50-8	
Lead	**15.6**	mg/kg	0.56	5	09/18/18 06:37	09/21/18 11:41	7439-92-1	
Selenium	**6.0**	mg/kg	0.56	5	09/18/18 06:37	09/21/18 11:41	7782-49-2	
Silver	**<0.056**	mg/kg	0.056	1	09/18/18 06:37	09/21/18 10:10	7440-22-4	
Zinc	**64.5**	mg/kg	55.8	50	09/18/18 06:37	09/21/18 11:39	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**<0.058**	mg/kg	0.058	1	09/24/18 11:04	09/25/18 10:46	7439-97-6	
Percent Moisture	Analytical Method: SM 2540 G-11/3550							
Percent Moisture	**17.1**	%	0.10	1		09/17/18 15:13		

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ANALYTICAL RESULTS

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Sample: HA-4 (1-2') **Lab ID: 4617639004** Collected: 09/12/18 11:20 Received: 09/13/18 18:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS Solids ASE	Analytical Method: EPA 8082A Preparation Method: EPA 3545A							
PCB-1016 (Aroclor 1016)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 22:18	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 22:18	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 22:18	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 22:18	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 22:18	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 22:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.038**	mg/kg	0.038	1	09/17/18 08:35	09/19/18 22:18	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	83	%.	45-135	1	09/17/18 08:35	09/19/18 22:18	2051-24-3	
Tetrachloro-m-xylene (S)	85	%.	56-123	1	09/17/18 08:35	09/19/18 22:18	877-09-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050B							
Arsenic	**7.5**	mg/kg	0.55	5	09/18/18 06:37	09/21/18 11:47	7440-38-2	
Barium	**91.3**	mg/kg	5.5	50	09/18/18 06:37	09/21/18 11:43	7440-39-3	
Cadmium	**0.35**	mg/kg	0.055	1	09/18/18 06:37	09/21/18 10:12	7440-43-9	
Chromium	**21.6**	mg/kg	0.55	5	09/18/18 06:37	09/21/18 11:47	7440-47-3	
Copper	**17.5**	mg/kg	0.55	5	09/18/18 06:37	09/21/18 11:47	7440-50-8	
Lead	**8.7**	mg/kg	0.55	5	09/18/18 06:37	09/21/18 11:47	7439-92-1	
Selenium	**7.7**	mg/kg	0.55	5	09/18/18 06:37	09/21/18 11:47	7782-49-2	
Silver	**<0.055**	mg/kg	0.055	1	09/18/18 06:37	09/21/18 10:12	7440-22-4	
Zinc	**56.7**	mg/kg	54.8	50	09/18/18 06:37	09/21/18 11:43	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**<0.056**	mg/kg	0.056	1	09/24/18 11:04	09/25/18 10:51	7439-97-6	
Percent Moisture	Analytical Method: SM 2540 G-11/3550							
Percent Moisture	**14.0**	%	0.10	1		09/17/18 15:14		

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QUALITY CONTROL DATA

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

QC Batch: 33897 | Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B | Analysis Description: 7471 Mercury
Associated Lab Samples: 4617639001, 4617639002, 4617639003, 4617639004

METHOD BLANK: 137016 | Matrix: Solid
Associated Lab Samples: 4617639001, 4617639002, 4617639003, 4617639004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.047	0.047	09/25/18 10:01	

LABORATORY CONTROL SAMPLE: 137017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.32	0.30	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 137018 137019

Parameter	Units	4617639001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.056	.35	.38	0.38	0.39	108	105	80-120	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

QC Batch: 33349 | Analysis Method: EPA 6020A
QC Batch Method: EPA 3050B | Analysis Description: 6020A MET
Associated Lab Samples: 4617639001, 4617639002, 4617639003, 4617639004

METHOD BLANK: 134644 | Matrix: Solid
Associated Lab Samples: 4617639001, 4617639002, 4617639003, 4617639004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.096	0.096	09/21/18 09:58	
Barium	mg/kg	<0.096	0.096	09/21/18 09:58	
Cadmium	mg/kg	<0.048	0.048	09/21/18 09:58	
Chromium	mg/kg	<0.096	0.096	09/21/18 09:58	
Copper	mg/kg	<0.096	0.096	09/21/18 09:58	
Lead	mg/kg	<0.096	0.096	09/21/18 09:58	
Selenium	mg/kg	<0.096	0.096	09/21/18 09:58	
Silver	mg/kg	<0.048	0.048	09/21/18 09:58	
Zinc	mg/kg	<0.96	0.96	09/21/18 09:58	

LABORATORY CONTROL SAMPLE: 134645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	1.9	1.9	97	80-120	
Barium	mg/kg	1.9	2.0	102	80-120	
Cadmium	mg/kg	1.9	1.9	97	80-120	
Chromium	mg/kg	1.9	2.0	105	80-120	
Copper	mg/kg	1.9	2.0	104	80-120	
Lead	mg/kg	1.9	2.0	104	80-120	
Selenium	mg/kg	1.9	1.7	90	80-120	
Silver	mg/kg	1.9	1.9	101	80-120	
Zinc	mg/kg	1.9	1.9	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 134646 134647

Parameter	Units	4617652001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	11.6	2.2	2.1	12.7	13.9	52	107	75-125	9	20	M1
Barium	mg/kg	19.2	2.2	2.1	19.9	20.3	29	50	75-125	2	20	M1
Cadmium	mg/kg	<0.058	2.2	2.1	2.2	2.2	98	101	75-125	0	20	
Chromium	mg/kg	13.0	2.2	2.1	13.3	15.0	16	95	75-125	12	20	M1
Copper	mg/kg	22.6	2.2	2.1	16.9	17.2	-258	-252	75-125	2	20	M1
Lead	mg/kg	2.2	2.2	2.1	4.3	4.2	93	93	75-125	1	20	
Selenium	mg/kg	4.3	2.2	2.1	4.7	4.6	19	15	75-125	2	20	M1
Silver	mg/kg	<0.058	2.2	2.1	2.2	2.1	96	97	75-125	2	20	
Zinc	mg/kg	17.4	2.2	2.1	14.8	16.2	-115	-57	75-125	9	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

QC Batch: 33296 | Analysis Method: EPA 8082A
QC Batch Method: EPA 3545A | Analysis Description: 8082A GCS PCB
Associated Lab Samples: 4617639001, 4617639002, 4617639003, 4617639004

METHOD BLANK: 134504 | Matrix: Solid
Associated Lab Samples: 4617639001, 4617639002, 4617639003, 4617639004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	<0.033	0.033	09/19/18 20:22	
PCB-1221 (Aroclor 1221)	mg/kg	<0.033	0.033	09/19/18 20:22	
PCB-1232 (Aroclor 1232)	mg/kg	<0.033	0.033	09/19/18 20:22	
PCB-1242 (Aroclor 1242)	mg/kg	<0.033	0.033	09/19/18 20:22	
PCB-1248 (Aroclor 1248)	mg/kg	<0.033	0.033	09/19/18 20:22	
PCB-1254 (Aroclor 1254)	mg/kg	<0.033	0.033	09/19/18 20:22	
PCB-1260 (Aroclor 1260)	mg/kg	<0.033	0.033	09/19/18 20:22	
Decachlorobiphenyl (S)	%.	83	45-135	09/19/18 20:22	
Tetrachloro-m-xylene (S)	%.	84	56-123	09/19/18 20:22	

LABORATORY CONTROL SAMPLE: 134505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.2	0.17	84	68-129	
PCB-1260 (Aroclor 1260)	mg/kg	.2	0.18	89	60-140	
Decachlorobiphenyl (S)	%.			86	45-135	
Tetrachloro-m-xylene (S)	%.			86	56-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 134506 134507

Parameter	Units	4617563001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	mg/kg	<0.033	.2	.2	0.12	0.14	61	71	49-128	14	30	
PCB-1260 (Aroclor 1260)	mg/kg	<0.033	.2	.2	0.13	0.15	66	75	48-138	14	30	
Decachlorobiphenyl (S)	%.						62	73	45-135			
Tetrachloro-m-xylene (S)	%.						62	72	56-123			

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QUALITY CONTROL DATA

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

QC Batch: 33319 | Analysis Method: SM 2540 G-11/3550
QC Batch Method: SM 2540 G-11/3550 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4617639001, 4617639002, 4617639003, 4617639004

SAMPLE DUPLICATE: 134584

Parameter	Units	4617659003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.2	23.1	8	20	H1

SAMPLE DUPLICATE: 134585

Parameter	Units	4617611020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.2	17.5	4	20	

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QUALIFIERS

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pittsfield Twp; 180469-0200
Pace Project No.: 4617639

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4617639001	**HA-1 (1-3')**	EPA 3545A	33296	EPA 8082A	33392
4617639002	**HA-2 (1-2.5')**	EPA 3545A	33296	EPA 8082A	33392
4617639003	**HA-3 (1-3')**	EPA 3545A	33296	EPA 8082A	33392
4617639004	**HA-4 (1-2')**	EPA 3545A	33296	EPA 8082A	33392
4617639001	**HA-1 (1-3')**	EPA 3050B	33349	EPA 6020A	33762
4617639002	**HA-2 (1-2.5')**	EPA 3050B	33349	EPA 6020A	33762
4617639003	**HA-3 (1-3')**	EPA 3050B	33349	EPA 6020A	33762
4617639004	**HA-4 (1-2')**	EPA 3050B	33349	EPA 6020A	33762
4617639001	**HA-1 (1-3')**	EPA 7471B	33897	EPA 7471B	34048
4617639002	**HA-2 (1-2.5')**	EPA 7471B	33897	EPA 7471B	34048
4617639003	**HA-3 (1-3')**	EPA 7471B	33897	EPA 7471B	34048
4617639004	**HA-4 (1-2')**	EPA 7471B	33897	EPA 7471B	34048
4617639001	**HA-1 (1-3')**	SM 2540 G-11/3550	33319		
4617639002	**HA-2 (1-2.5')**	SM 2540 G-11/3550	33319		
4617639003	**HA-3 (1-3')**	SM 2540 G-11/3550	33319		
4617639004	**HA-4 (1-2')**	SM 2540 G-11/3550	33319		

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WO#: 4617639

4617639

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Inc.

CHAIN OF CUSTODY RECORD

PROJECT NUMBER (INCLUDE TASK NUMBER): 180469-0200

PROJECT NAME/LOCATION: Pittsfield Twp: W Waters Road + Oak Valley Drive

SAMPLER(S) NAME (S): Mavra Gibbons

1953

PRESERVATIVES

ANALYSES REQUESTED

DATE	TIME	COMP	GRAB	SAMPLE IDENTIFICATION	MATRIX	CONTAINERS NO.	CONTAINERS SIZE	PCBs	ml metals						4-43 VOC soils	REMARKS
9/12/18	9:40		X	HA-1 (1-3')	soil	1	8oz	X	X						2	
	10:20		X	HA-2 (1-2.5')				X	X							
	10:45		X	HA-3 (1-3')				X	X							
	11:20		X	HA-4 (1-2')				X	X							

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:	Report and Original COC to:
Mavra	9/12/18	12:00	Tommy Dane	9/13/18	1217	
Tommy Dane	9/13/18	1335	Dane	9/13/18	1335	Laboratory:
Dane	9/13/18	1815	RECEIVED AT LAB BY: CW Watt	09/13/18	1815	Date Results Required:

White: Lab Yellow: Variable Pink: ECT

L:/ECT Standard Forms/ECT ChainofCustody.xls.xls

Pace Analytical
www.pacelabs.com

Sample Conditions Upon Re

WO#: 4617639

Date: 09/13/18	**Evaluated by:** aw	PM: BJH Due Date: 09/25/18 CLIENT: ECT
Client: Pittsfield		
Profile ID: 4-43	**Project Manager:** BJH	
Sample Receiving Non Conformance Form Required: YES NO		**Rush Turn Around Time Requested:** YES NO **Due Date:**
Page Of		**Lab Notified of Rush or Short Holds:** YES NO

Lab Sample Receipt Checklist:

Samples Received Via:	FEDEX	UPS	CLIENT	PACE COURIER
Custody Seals Present and Intact:	YES	NO	NA	
USDA Regulated Soils:	YES	NO	NA	
Short Holds Present (< 72 Hours):	YES	NO	NA	
Samples Received in Hold:	YES	NO	NA	
Custody Signatures Present:	YES	NO	NA	
Collector Signature Present:	YES	NO	NA	
Samples Received On Ice: Type of Ice: WET BLUE DRY NONE	YES	NO	NA	
Packing Material Used:	YES	NO	NA	
IR Gun #: 202 402 Temp should be 0-6°C	Cooler Temp Upon Receipt: 1.7 °C			
Temp Blank Received:	YES	NO	NA	
Trip Blank Received: Type: HCL MeOH TSP OTHER	YES	NO	NA	
Bottles Intact:	YES	NO	NA	
Correct Bottles:	YES	NO	NA	
Sufficient Volume:	YES	NO	NA	
Sample pH Acceptable: All containers needing preservation are found to be in complaince with EPA recommendation Exceptions are VOA, coliform, TOC, O & G, HEM, DRO	YES	NO	NA	pH Strip Lot Number:
VOA Headspace Acceptable (<6mm):	YES	NO	NA	
Comments:				

F-GR-C-007-rev.00, 21Aug2018