



PHASE I ENVIRONMENTAL SITE ASSESSMENT

INDUSTRIAL PROPERTY

2000 South Industrial Highway
Ann Arbor, Michigan 48104
Project Number 188DD22012

PREPARED FOR:

Ann Arbor Affordable Housing Corporation
Mr. Tim Olivier
2000 South Industrial Highway
Ann Arbor, MI 48104

PREPARED BY:

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Report Date March 10, 2022
Site Visit Date March 8, 2022



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SIGNATURE PAGE

Project Information

Commercial Property
188DD22012
2000 South Industrial Highway
Ann Arbor, Michigan 48104
Reconnaissance Date(s): March 8, 2022

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Environmental Professional Statement

We declare that, to the best of our professional knowledge and belief, we meet the definition of *environmental professional* as defined in § 312.10 part of 40 CFR 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 CFR Part 312.

Andrew Temerowski, Project Scientist
Site Assessor

Gerard DeBusschere, CPG, LPG
Sr. Project Manager



1.0 EXECUTIVE SUMMARY

1.1 Subject Property and Area Description

The property that is the subject of this Atlas Technical Consultants LLC (Atlas) Phase I Environmental Site Assessment (ESA) report is located at 2000 South Industrial Highway, Ann Arbor, Michigan 48104 (the "Subject Property"). A second address of 2050 South Industrial Highway was also identified for the property. The Subject Property is improved with an approximate 9,100-square foot commercial office/warehouse building, a 7,700-square foot pole building, and a 4.2-million gallon water reservoir tank on a 4.09-acre parcel of land. Prior to this development, the Subject Property was another commercial development and undeveloped land or agricultural land.

1.2 Findings, Opinions and Conclusions

Atlas has performed this ESA of the Subject Property in conformance with the scope and limitations of ASTM Standard Practice E1527-13. Any exceptions to, or deletions from, this practice are described in Section 2.0 of this report. This assessment has revealed no evidence of a *recognized environmental condition* (REC), *controlled recognized environmental condition* (CREC), *historical recognized environmental condition* (HREC) in connection with the Subject Property except for the following:

- No apparent olfactory indications of strong, pungent or noxious odors were observed within the interior or exterior portions of the Subject Property, with the exception of a petroleum odor noted within the exterior northern entrance area of the building addressed as 2050 South Industrial Highway. No apparent visual indications of the presence of areas of significantly stained soil or pavement were observed in this area. Based on the historical presence of USTs, orphaned UST, and lack of pertinent supporting UST documentation associated with the on-site USTs, the potential exists for this area to contain an abandoned UST and is considered to be an REC.
- The former garage/repair shop use of the buildings on the Subject Property from 1957 to 2010 is considered to be a REC. This is based on typical use of petroleum products and generation of waste along with the use of sub-surface features identified within the building. Features of specific concern include approximately 2 below-grade hydraulic hoists (which appear to have been removed); spray paint booth, and multiple trench and/or round floor drains throughout the buildings.
- Historical railroad tracks/spurs were located within the northwestern portion of the Subject Property. Railroad tracks are typically constructed of unknown fill that presents a potential for introducing contaminated material to the vicinity. In addition, railroad ties are often treated with creosote and/or oils, and herbicides and/or oils are used to control encroaching vegetation. Therefore, the presence of the historic railroad track/spur has the potential to adversely impact the natural resources of the Subject Property is considered to be an REC.
- The Subject Property has been historically occupied by a recycling center which accepted hazardous materials such as oil and batteries. An oil and battery containment structure is associated with 2050 S. Industrial within the Subject Property and is considered to be a REC based on unknown housekeeping activities and likely spills/releases.
- Based on an Atlas Closure Report for the City of Ann Arbor Fuel Farm for the Subject Property on behalf of the City of Ann Arbor, dated October 25, 2021 the site lithology generally consists of fill material consisting of sand, gravel, clay, concrete, and brick debris from depths varying from 5 to 13 feet bsg with native materials consisting of sand, silty-sand, and clay to the maximum depth investigated of 25 feet. In addition, the County Drain Commission and Water Department utilize the Subject Property. Soil stockpiles with debris (i.e., concrete and asphalt) were observed within the southern portion of the Subject Property. The presence of a significant amount of fill material from an unknown origin is considered to be a REC.



- Previous subsurface investigations conducted in 2021 at the Subject Property has documented soil contamination on the Subject Property. The contamination is generally at the southeastern portion of the main building 2000 S. Industrial. This contamination is associated with a former heating oil underground storage tank UST and is considered to be a REC.
- Building records indicate three 20,000-gallon fuel oil USTs were installed in 1955 are considered to be a REC because no removal information or closure sampling data was available.
- One 1,000-gallon diesel UST, one 2,000-gallon diesel UST, and one 2,000-gallon gasoline UST with unknown installation dates removed in 1992 are associated with the Subject Property. In addition, Fire Department records indicate two 1,500-gallon gasoline and one 1,500-gallon diesel tanks were associated with the Subject Property in 1958. These USTs/tanks are considered to be a REC because no closure information or sampling data was available.
- The Subject Property is developed with a 4.2 million gallon reservoir constructed in 1967. Based on the age of the reservoir the potential exists for lead-based paint to have been utilized on the structure. The structure was reportedly sandblasted and repainted in 1994. The potential exists for elevated levels of lead to be present in the soils at the base of the reservoir and is considered to be an REC.
- The western adjoining properties located at 2115 and 2141 South State Street have been occupied by automotive repair shops/gas stations/fuel oil dealers from 1971 until 2014 which are considered to be a *recognized environmental condition*. Specific environmental concerns include automotive service/repair, collision shop and auto washing operations along with storage of significant quantities of chemicals/petroleum products and wastes, open and closed LUST incidents, with documented contamination in soil and/or groundwater present. The potential for releases and lack of data regarding potential adverse impacts offsite to the Subject Property is considered to represent a vapor encroachment condition (VEC) and a REC.
- A Corrective Action Notice to Register of Deeds, Michigan Department of Environmental Quality (MDEQ) – Underground Storage Tank Division, of 2000 South Industrial Highway, dated June 4, 1997 indicating the land use corrective action at the site is as follows; Commercial III restrictions utilization of the groundwater resources and underground utility/construction activities in localized area of impacted soils.
- One 12,000-gallon gasoline UST installed 1979 and one 12,000-gallon gasoline UST installed 1980 removed in 1992 are associated with the Subject Property. Two confirmed “closed” LUST incidents dated September 14 and 15, 1992 are associated with these USTs. Regulatory database documentation indicated that closure of the site was completed to regulatory criteria as of June 16, 1997. As such, the 1992 UST releases are considered to be a *historical recognized environmental condition* HREC.
- The Subject Property is identified on the ERNS database. Incident #337490 was from a 1,000-gallon a fuel oil spill from an open valve on an aboveground storage tank on construction site dated April 21, 1994. Approximately 750-gallons of diesel fuel was released, impacting a storm drain, the Huron River, and basin located a mile away. Regulatory documentation indicated that BTEX and PNA contamination from the diesel spill has been remediated via excavation and proper disposal and the incident is considered closed at the site. As such, the 1994 AST release is considered to be an HREC.
- A Closure Report for the City of Ann Arbor Fuel Farm for the Subject Property, dated October 21, 2021 indicated a suspected release associated with the removal of the UST system (one 15,000-gallon gasoline, one 15,000-diesel, and dispenser island) was reported June 29, 2020. The primary source of the release was suspected to be from the dispenser locations due to soil impact observed at shallow sample locations collected 3 feet bsg underneath the former dispenser area. The area where the dispensers were located were subsequently excavated to 4 feet bsg removing the



impacted soil and disposed of at Woodland Meadows Landfill. In summary, the impacted areas were excavated and removed from the site and the area resampled indicating soil samples were below Part 213 Risk Based Screening Levels (RBSLs) and groundwater sampling indicated no impact in any monitoring wells. Furthermore, the Department of Environment, Great Lakes, and Energy issued a Notice of Closure Report Considered Approved, dated February 18, 2022, for the confirmed release. Based on the above, historical site uses represent a (HREC) for the Subject Property.

Non-CERCLA Issues

Federal and state laws require all ACMs that are likely to be disturbed or impacted by renovation or demolition activities to be removed prior to initiating any renovation or demolition activities that are likely to impact the ACMs. Based on the observations and planned extensive exterior renovations Atlas recommends a full ACM survey.

No other non-CERCLA issues were identified during the course of this investigation.

1.3 Significant Assumptions

The assumptions made by the *Environmental Professional* in this report were not considered to have a significant impact on the determination of RECs in connection with the Subject Property.

1.4 Significant Data Gaps

Data gaps may have been encountered during the performance of this ESA and are discussed in applicable sections of the report. According to the ASTM Standard Practice E1527-13, data gaps are only significant if "other information and/or professional experience raise reasonable concerns involving the data gap." No *significant data gaps* were identified in this report.

SIGNIFICANT DATA GAP SUMMARY		
	Report Section	Description
3.1	Environmental Liens or Activity and Use Limitations (AULs)	No <i>significant data gap</i> identified.
4.4	Current Uses of Adjoining Properties	No <i>significant data gap</i> identified.
5.1	Physical Setting Sources	No <i>significant data gap</i> identified.
5.2	Historical Records Sources	No <i>significant data gap</i> identified.
5.4	Standard Environmental Records	No <i>significant data gap</i> identified.
6.1	Methodology and Limiting Conditions	No <i>significant data gap</i> identified.
8.0	Interviews	No <i>significant data gap</i> identified.

1.5 Recommendations

Atlas recommends that a ground penetrating radar (GPR) survey be completed in attempt to locate any former USTs that may still be located on the Subject Property. Subsequently, a subsurface investigation should be conducted to address the *recognized environmental conditions* identified in Section 1.2.

Atlas notes the extent of the detected laboratory parameters in soil have not been determined and additional hazardous substances may be present on-site, which exceed one or more applicable non-residential cleanup criteria contained in P.A. 451, Part 201. Atlas further noted the extent of the detected laboratory parameters on-site (e.g., petroleum) in soil at the referenced sample locations (near the former heating oil UST) have not been horizontally or vertically delineated. Also, it was noted the contaminant plume appears to extend below the slab foundation of the site building. The former heating oil UST excavation area is the subject of an on-going investigation to determine the extent of the adverse impact at the Subject Property and potential remediation activities.



At the time of this submittal, the (impacted) stockpiled soils were returned to former excavation following removal of the orphan heating oil UST. Exterior monitoring locations and sub-slab soil gas sample pins were installed within the Subject Property building to assess the potential for vapor intrusion into the Subject Property building exists. Quarterly soil gas and groundwater monitoring should be conducted for an additional four quarterly events.

If additional buildings are constructed on-site, additional evaluation of the site regarding the indoor air exposure pathway may be required/warranted prior to finalizing any construction plans in an attempt to determine if an indoor air inhalation risk exists with respect to potentially impacted soil on-site.



2.0 INTRODUCTION

2.1 Purpose

The purpose of this ESA was to identify *recognized environmental conditions* (RECs), *controlled recognized environmental conditions* (CRECs) and *historical recognized environmental conditions* (HRECs) in connection with the Subject Property at the time of the site reconnaissance. This report documents the findings, opinions and conclusions of the ESA.

2.2 Scope of Work

This ESA was conducted in accordance with the ASTM Standard Practice E1527-13 for Phase I Environmental Site Assessments, consistent with a level of care and skill ordinarily practiced by the environmental consulting profession currently providing similar services under similar circumstances. Significant additions, deletions or exceptions to ASTM Standard Practice E1527-13 are noted below or in the applicable sections of this report. The table below summarizes the scope of this ESA, including additional services for conditions beyond the scope of ASTM Standard Practice E1527-13 if authorized by Client. Additional details may be found in Section 10.0, References and Appendix J, Scope of Work.

ESA SCOPE OF WORK
Phase I ESA
Vapor Encroachment Screen
Supplemental Agency File Review
ESA ADDITIONAL SERVICES
Wetlands Document Review
Flood Plain Document Review
Mold Screen
Visual Observation of Suspect Asbestos-Containing Materials (ACM) and limited sampling as per lender guidelines (if necessary)
Radon Document Review
Visual Observation of Suspect Lead-based Paint (LBP)
Lead in Drinking Water Data Review

2.3 Limitations

Atlas has prepared this ESA report using reasonable efforts to identify RECs, CRECs and HRECs associated with hazardous substances or petroleum products in, on or at the Subject Property. Findings contained within this report are based on information collected from observations made on the day(s) of the site reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

The ASTM Standard Practice E1527-13 recognizes inherent limitations for ESAs, including, but not limited to:

- *Uncertainty Not Eliminated* – An ESA cannot completely eliminate uncertainty regarding the potential for recognized environmental conditions in connection with the Subject Property.
- *Not Exhaustive* – An ESA is not an exhaustive investigation of environmental conditions on the Subject Property.
- *Past Uses of the Subject Property* – ESA requirements only require review of standard historical sources at five year intervals. Therefore, past uses of Subject Property at less than five year intervals may not be discovered.



Users of this report should refer to ASTM Standard Practice E1527-13, Section 10.0 References, Section 11.0 Terminology and Appendix J Scope of Work for further information regarding limitations to the scope of this project.

This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques, which are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other Subject Property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.

Atlas makes no representation or warranty that the past or current operations at the Subject Property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Regardless of the findings stated in this report, Atlas makes no warranty that the Subject Property is free from existing or threatened pollution, and Atlas is not responsible for consequences or conditions arising from facts not fully disclosed to Atlas during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by Atlas's observations or other credible referenced sources reviewed during the assessment. Atlas shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

Atlas makes no warranty, guarantee or certification regarding the quality, accuracy or reliability of any prior report provided to Atlas and discussed in this ESA report. Atlas expressly disclaims any and all liability for any errors or omissions contained in any prior reports provided to Atlas and discussed in this ESA report.

Atlas used reasonable efforts to identify evidence of aboveground and underground storage tanks and ancillary equipment on the Subject Property during the assessment. "Reasonable efforts" were limited to observation of accessible areas, review of referenced public records and interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, snow cover, paving, construction activities, stored materials and landscaping.

Any estimates of costs or quantities in this report are approximations for commercial real estate transaction due diligence purposes and are based on the findings, opinions and conclusions of this assessment, which are limited by the scope of the assessment, contractual agreement(s) with client, schedule demands, cost constraints, accessibility limitations and other factors associated with performing the ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report. The estimated costs or quantities in this report are not intended to be used for financial disclosure related to the Financial Accounting Standards Board (FASB) Statement No. 143, FASB Interpretation No. 47, Sarbanes/Oxley Act or any United States Securities and Exchange Commission reporting obligations, and may not be used for such purposes in any form without the express written permission of Atlas.

Atlas is not a professional title insurance or land surveyor firm and makes no guarantee, express or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of the Subject Property in this report, represent a comprehensive definition or precise delineation of Subject Property ownership or boundaries.

The "Environmental Professional Statement" in this report does not "certify" the findings contained in this report and is not a legal opinion of such *Environmental Professional*. The statement is intended to document Atlas's opinion that an individual meeting the qualifications of an *Environmental Professional* was involved in the performance of the assessment and that the activities performed by, or under the supervision of, the



Environmental Professional were performed in conformance with the standards and practices set forth in 40 CFR Part 312 per the methodology in ASTM Standard Practice E1527-13 and the scope of work for this assessment.

Per ASTM Standard Practice E1527-13, Section 6, User Responsibilities, the User of this assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of recognized environmental conditions in connection with the Subject Property. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Atlas makes no representations or warranties regarding a User's qualification for protection under any federal, state or local laws, rules or regulations.

In accordance with the ASTM Standard Practice E1527-13, this report is presumed to be valid for a six month period after the date of the site reconnaissance. If the report is older than 180 days, the following information must be updated in order for the report to be valid: (1) regulatory review, (2) site visit, (3) interviews, (4) specialized knowledge and (5) environmental liens search. Reports older than one year may not meet the ASTM Standard Practice E1527-13 and therefore, the entire report must be updated to reflect current conditions and Subject Property-specific information.

2.4 Special Terms and Conditions (User Reliance)

This report is for the use and benefit of, and may be relied upon by Ann Arbor Affordable Housing Corporation, City of Ann Arbor – Water Fund, Ann Arbor Housing Commission, Ann Arbor Housing Development Corporation, Michigan State Housing Development Authority, and any of its affiliates, and third parties authorized in writing by Ann Arbor Affordable Housing Corporation and Atlas, including the lender(s) in connection with a commercial real estate transaction involving the property. Notwithstanding the foregoing, any third parties currently contemplating investing in or making a loan on the property, and their respective successors and assigns, may rely on this report subject to the conditions set forth herein. Any third party, as the case may be, agrees by accepting and/or relying on this report that any use or reliance on this report shall be limited by the qualifications, exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, that hidden conditions may exist at the property that were not discovered within the authorized scope of the assessment, and that the scope of the investigation was limited by time, budget and other constraints imposed by the Client. Atlas makes no representations or warranties as to the conditions of the property after the date the report was issued. For purposes of any party granted reliance hereunder, this report is presumed to be valid for a six month period after the date of the site reconnaissance. Any use by or distribution of this report to any other third party not authorized hereunder, without the express written consent of Atlas, is at the sole risk and expense of such other third party and is without liability to Atlas.

Regardless of the findings of Atlas's assessment, Atlas makes no warranty that the property is free from existing or threatened pollution, Atlas makes no other representation to any third party expressly authorized hereunder except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made, either express or implied. In consideration of the rights granted herein, any third party authorized to use or rely on this report hereby agrees that Atlas's liability with respect to any acts or omissions of Atlas shall be limited to a total maximum aggregate of \$100,000.



3.0 USER PROVIDED INFORMATION

The following section summarizes information and documentation provided by Ann Arbor Affordable Housing Corporation, (User), with regard to User Responsibilities outlined in ASTM Standard Practice E1527-13. An Environmental Questionnaire and Disclosure Statement completed by Ms. Jennifer Hall (Ann Arbor Housing Commission) and Mr. Matt Kulhanek (Ann Arbor Fleet & Facilities Manager) may be found in Appendix D or as referenced elsewhere in this report.

3.1 Environmental Liens or Activity and Use Limitations (AULs)

The User did not provide an environmental liens or AUL search document for the Subject Property.

3.2 Specialized Knowledge or Experience of the User

The User provided no specialized knowledge regarding *recognized environmental conditions* associated with the property with the exception of closed Leaking Underground Storage Tank (LUST) incidents, on-going activity associated with the removal of a former heating oil Underground Storage Tank (UST), and an unidentified chemical smell seeping from the ground at the entrance to the maintenance facility.

3.3 Significant Valuation Reduction for Environmental Issues

The User provided no information regarding a significant valuation reduction for environmental conditions associated with the Subject Property. The User indicated the purchase price has not been determined.

3.4 Owner, Property Manager and Occupant Information

The occupants of the Subject Property were identified as Ann Arbor Water Treatment Plant, Ann Arbor Housing Commission, the Ann Arbor Fire Department, the Washtenaw Drain Commission, CTN TV, the Ann Arbor Police Department, Ann Arbor Fleet Services, and Ann Arbor furniture. The Site Contact was identified as Mr. Brian Steglitz, Interim Public Services Manager & Water Treatment Plant Manager. The owner entity of the Subject Property was identified as Ann Arbor – Water Treatment.

3.5 Reason for Performing ESA

According to information provided by the User, this Phase I ESA will be used in connection to satisfy due diligence requirements prior to the completion of a financial transaction to identify *recognized environmental conditions* associated with the Subject Property.

3.6 User Provided Documentation

The User provided the following documents associated with the Subject Property. Copies of the reports are included in Appendix D.

- Corrective Action Notice to Register of Deeds, Michigan Department of Environmental Quality (MDEQ) – Underground Storage Tank Division, of 2000 South Industrial Highway, dated June 4, 1997 indicating the land use corrective action at the site is as follows; Commercial III restrictions utilization of the groundwater resources and underground utility/construction activities in localized area of impacted soils. A release was discovered during the removal of two USTs and three previously abandoned USTs in 1992.
- Absolute Title, Inc. Title Search for 2000 South Industrial Highway, Ann Arbor, MI 48104 dated June 19, 2019. According to the title search, the Subject Property is owned by the City of Ann Arbor, a Michigan municipal corporation. No environmental liens were identified within the title search. One Release of right of Way for drain and the above Corrective Action Notice were noted.



- Gerald Alcock Company LLC Real Estate Appraisal of 2000 South Industrial Highway on behalf of the Ann Arbor Housing Commission dated September 11, 2019. The Subject Property was developed with the existing water treatment and Housing Commission office use. The appraisal was based on no environmental hazards and no environmental hazards or deed restrictions were identified.



4.0 SITE DESCRIPTION

4.1 Location and Legal Description

The Subject Property address is 2000 South Industrial Highway (and a second address of 2050 South Industrial Highway), Ann Arbor, Michigan 48104. According to information obtained from the online Ann Arbor Assessing Department, the Subject Property is comprised of one parcel of land identified as Property Identification Number 09-12-04-200-013. A review of city building department records also identified a historical address for the subject property of 1110 Harpst. A Site Vicinity Map is located in Appendix A. A Site Plan is located in Appendix B. Site Photographs are provided in Appendix C. A legal description is provided in Appendix G.

4.2 Area Description

The Subject Property is located in an area generally characterized by commercial, industrial, and residential properties and roadways. Surface topography across the Subject Property is relatively level and the surrounding area is generally from the west to the east.

4.3 Property Improvements and Use

The Subject Property includes 4.09 acres of land developed with a 9,100-square foot commercial office/warehouse building and a 7,700-square foot pole building. The remainder of the Subject Property consists of a water treatment tank, two aboveground storage tanks with dispensers, and parking lots. The Subject Property is currently occupied by Ann Arbor Water Treatment Plant, Ann Arbor Housing Commission, the Ann Arbor Fire Department, the Washtenaw Drain Commission, CTN TV, the Ann Arbor Police Department, Ann Arbor Fleet Services, and Ann Arbor furniture.

The following provides a general description of Subject Property buildings and use.

SUBJECT PROPERTY IMPROVEMENTS	
Size of Subject Property (approximate)	4.09-acres
General Subject Property Use	Water treatment plant/offices/storage
Public Roads	The Subject Property is accessed from the west via a driveway which leads to South Industrial Highway.
Paved or Concrete Areas (including parking)	Deteriorated asphalt parking areas around the buildings. A concrete paved area is also located on the southeast portion of the Subject Property.
Unimproved Areas	None
Landscaped Areas	Grassy areas are located on the east side of the Subject Property.
Surface Water	None
Potable Water Source	Ann Arbor
Sanitary Sewer Utility/Septic	Ann Arbor
Storm Sewer Utility	Ann Arbor
Electrical Utility	DTE Energy
Natural Gas Utility	DTE Energy
Number of Buildings/Description	Two: one commercial building and one pole building
Current Occupancy Status	100% occupied
Unoccupied Buildings/Spaces/Structures	None
Type of Use	Water treatment plant/offices/storage

The following provides additional descriptions of Subject Property buildings and use.



SUBJECT PROPERTY BUILDINGS	
Building Name/Number/Address	Ann Arbor Housing (2000 South Industrial Highway) and Water Treatment (2050 South Industrial Highway)
Number of Floors	One story
Total Square Feet of Space (approximate)	9,100-square foot and 7,700-square foot
Construction Completion Date (year)	1940s 2050 Industrial building, 1950s 2000 Industrial building
Construction Type	Concrete block, brick, metal, wood on concrete slab
Interior Finishes Description	Metal, concrete, drywall, acoustic ceiling tiles, cove base, floor tiles, vinyl
Exterior Finishes Description	Metal, concrete block, brick, glass
Cooling System Type	Packaged units next to building (2000 Industrial) Ductless wall units office (2050 Industrial)
Heating System Type	Natural gas fired furnace (2000 Industrial) Ductless wall units office and suspended heaters service/warehouse areas (2050 Industrial)
Emergency Power	None
Tenant Name(s)	Ann Arbor Water Treatment Plant, Ann Arbor Housing Commission, the Ann Arbor Fire Department, the Washtenaw Drain Commission, CTN TV, the Ann Arbor Police Department, Ann Arbor Fleet Services, and Ann Arbor furniture
Type of Use	Water treatment plant/offices

4.4 Current Uses of Adjoining Properties

The following summarizes current uses of the adjoining properties, including environmental conditions, features or operations that were observed or suspected to be present.

Occupant(s) Name and Current Use	Address	Direction	Observed or Suspected Environmental Conditions, Features or Operations
Ann Arbor Pump House	1990 South Industrial Highway	North	MI UST
US Army Reserve Center	1980 South Industrial Highway	North	RCRA-VSQG FINDS ECHO
Woodbury Gardens – Apartments	1208 Astor Avenue	East across South Industrial Highway	None observed
Wolverine Plumbing Supply	2025 South Industrial Highway	East across South Industrial Highway	None observed
Steve Steeb Auto Repair	2075 South Industrial Highway	East across South Industrial Highway	MI INVENTORY MI BEA MI WDS
Affordable Computers	1070 Rosewood Street	East across South Industrial Highway	RCRA NonGen/NLR FINDS ECHO
Autobahn Engineering Ann Arbor Office Repair Ann Arbor Door Systems Housekeeping Associates Restoration – Water Damage	2200 South Industrial Highway	South	None observed



Occupant(s) Name and Current Use	Address	Direction	Observed or Suspected Environmental Conditions, Features or Operations
State Street Village Apartments Bldg 2227	2221 South State Street	West across railroad tracks	None observed
Vedder Electric MBCM Service Experts MBCM Flooring Gallup Properties The Wolverine – Sports Personal Touch Landscaping	2141-2179 South State Street	West across railroad tracks	MI AST RCRA NonGen/NLR FINDS ECHO EDR HIST AUTO MI LUST MI UST MI INVENTORY MI BEA MI WDS
Glen-Ann Towing Former NAPA Auto Service	2115 South State Street	West across railroad tracks	MI LUST MI UST MI INVENTORY MI WDS RCRA-VSQQ FINDS ECHO EDR HIST AUTO MI AST
Sure-Flo Fittings Perfection Sprinklers	2077 South State Street	West across railroad tracks	None observed

RCRA-VSQQ = Very Small Quantity Generator
 RCRA-NonGen/NLR = Non Generator/No Longer Registered
 AST = Aboveground Storage Tank Site
 UST = Underground Storage Tank Site
 LUST = Leaking Underground Storage Tank Site
 EDR HIST AUTO = Historic Auto Station
 FINDS = Facility Index System
 ECHO = Enforcement & Compliance History Information
 INVENTORY – Inventory of Facilities
 WDS = Waste Data System
 BEA = Baseline environmental Assessment

Refer to Section 5.4 for discussion of the adjacent property regulatory listings. Atlas observed no evidence of current USTs, ASTs, hazardous waste generation or disposal, hazardous substance and/or petroleum products storage and use, or any other current operations or conditions on the adjoining properties that would be anticipated to adversely impact the environmental integrity of the Subject Property. Atlas did not observe any signs of material spillage (e.g., stressed vegetation, surface stains, etc.) on the adjacent property boundaries nearest to the Subject Property. Refer to Section 5.2 for a discussion of the historical use of the Subject Property and adjacent properties.



5.0 RECORDS REVIEW

5.1 Physical Setting Sources

5.1.1 Topography

The Subject Property is located in the northwest $\frac{1}{4}$ of Section 4 (T.3.S.-R.6.E.) on the United States Geological Survey (USGS) 7.5 Minute Topographic Map, *Ann Arbor East, Michigan Quadrangle*, dated 1965, photorevised 1983. A review of the referenced topographic map indicates the Subject Property is located approximately 828 feet above mean sea level (MSL) and is relatively flat. Based on review of the topographic map, the surrounding area generally slopes from west to east. A copy of the topographic map is included in Appendix A.

5.1.2 Geology

According to the 1987 Bedrock Geology of Michigan map, the bedrock below the site consists of Coldwater Shale of the Mississippian System and Paleozoic Era. Depth to bedrock was not included in the map, nor did Atlas discover a source indicating the depth to bedrock in the vicinity of the Subject Property.

5.1.3 Soils

According to the Quaternary Geology of Southern Michigan map, dated 1982, (Farrand and Bell), the regional geology in the vicinity of the Subject Property consists of glacial outwash sand and glacial and post glacial alluvium. This matrix is pale brown to pale reddish brown, with fine to coarse sand alternating with layers of small gravel to heavy cobbles, with mixed lithology of sedimentary, igneous, and metamorphic rocks. This matrix is well to poorly sorted, well stratified, and, in places, cross bedded. This matrix occurs as fans and sheets of flanking end moraines and as deltas along glacial lake margins in fluvial terraces along present and abandoned drainage ways. This matrix includes narrow belts of Holocene alluvium inset below outwash terraces alongside present streams. Based on an Atlas Closure Report for the City of Ann Arbor Fuel Farm for the Subject Property on behalf of the City of Ann Arbor, dated October 25, 2021 the site lithology generally consists of fill material consisting of sand, gravel, clay, concrete, and brick debris from depths varying from 5 to 13 feet bsg with native materials consisting of sand, silty-sand, and clay to the maximum depth investigated of 25 feet.

According to the USDA Web Soil Survey, two soil types are present across the Subject Property, Matherton sandy loam, 0 to 4 percent slopes makes up the majority of the Subject Property and Sebewa loam, disintegration moraine, 0 to 2 percents slopes occupies the northwest and southwest portions of the Subject Property. The Soil Survey is included in Appendix L.

Atlas did not obtain any additional information about the Subject Property's soils during the course of this Phase I ESA.

5.1.4 Hydrology

Estimated groundwater levels and/or flow direction(s) may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations. Major hydrogeologic features such as a river or lake generally influence regional groundwater flow direction. Surface and/or bedrock topography may also influence regional groundwater flow direction. It should be noted that local geologic features might cause local groundwater flow direction to differ from the regional flow direction. The available hydrogeologic information indicates that the presumed local groundwater flow is direction is from the west to the east based on topography. Local hydraulic gradient at the Subject Property was interpreted based on a review of the referenced USGS Topographic Map. A complete hydrogeologic investigation would be necessary to determine groundwater flow direction.



Based on an Atlas Closure Report for the City of Ann Arbor Fuel Farm for the Subject Property on behalf of the City of Ann Arbor, dated October 25, 2021 the average depth to groundwater was 5.89 feet below top of casing (btoc) on June 6, 2021 and the groundwater flow direction was northeast.

5.2 Historical Records Sources

Atlas's historical research included a review of documentation from 1906 through 2021 for the Subject Property and adjacent properties. A summary follows.

Subject Property

Based on the information reviewed (detailed within the Sections below), the property consisted of vacant undeveloped land from at least 1906 until the 1930's when the Subject Property was improved with farmstead/nursery structures on the northwestern and southern portions of the property. The nursery structures were demolished and the property was improved with commercial structures in the early 1950s, which was occupied by Lewis & Frisinger Co. The subject property has been occupied by the City of Ann Arbor entities (i.e., water department, housing commission, police and fire department, etc.) since 1964 with garage and repair shops and the use remained as such through circa 2010. Ecology Center recycling has also occupied the Subject Property from the 1980s through 1997 with Re-Use/Recycling in Ann Arbor accepting recycling in 2021. The following are *RECs* Identified in association with historical use of the Subject Property:

- car repair operations conducted on the Subject Property (1957-2010), based on typical use of petroleum products and generation of waste
- Subject Property has been historically occupied by a recycling center which accepted hazardous materials such as oil and batteries. An oil and battery containment structure is associated with 2050 S. Industrial within the Subject Property and is considered to be a *REC* based on unknown housekeeping activities and likely spills/releases

Additionally, historical records indicated the use of fuel oil for heating the existing main building in the 1950s and 1960s. See Section 5.3 for further discussion of a heating oil UST that was discovered and removed in 2021

Adjacent Properties

The surrounding area has generally been developed with residences, commercial businesses and railroad tracks dating back to the early 1900s along with prior industrial usage to the west. The historical review identified the following *RECs* associated with surrounding properties:

- The western adjoining properties located at 2115 and 2141 South State Street have been occupied by automotive repair shops/gas stations/fuel oil dealers from 1971 until 2014 which are considered to be a *recognized environmental condition*. Specific environmental concerns include automotive service/repair, collision shop and auto washing operations along with storage of significant quantities of chemicals/petroleum products and wastes, open and closed LUST incidents, with documented contamination in soil and/or groundwater present. The potential for releases and lack of data regarding potential adverse impacts offsite to the Subject Property is considered to represent a vapor encroachment condition (VEC) and a *REC*.

Interval gaps (greater than five years) were encountered during the research of historical use information for the Subject Property and surrounding area. However, based on the review of available historical sources, these data gaps did not have an impact on the *REC* determinations of this assessment and are not *significant data gaps*.



5.2.1 Aerial Photographs

Atlas reviewed available aerial photographs of the Subject Property and surrounding area as provided by EDR. Available aerial photographs for the years 1937, 1940, 1949, 1955, 1962, 1969, 1973, 1978, 1983, 1987, 1993, 2000, 2006, 2009, 2012 and 2016 were reviewed. The following are descriptions and interpretations from the aerial photograph review. Copies of reproducible aerial photographs are included in Appendix F. Descriptions of and interpretations from the aerial photograph review are presented below with years indicated in parentheses.

Subject Property Summary: vacant land with approximately nine southern and western out-buildings farmstead/nursey operations (1937); vacant land with two southern out-buildings (1940); cleared land/exterior storage areas with two south-central buildings (1949); cleared land/exterior storage areas with two south-central buildings, a large northern building, and western railroad spur (1955 & 1962); cleared land/exterior storage areas with one central building, a large northern building, and a large northwestern tank (1969-1978); cleared land/exterior storage areas with one central building, a large northern building, a large northwestern tank, and a southeast building (1983 & 1987); current development (1993-2016)

Surrounding Property Summary

North – agricultural/undeveloped land (1937-1955); two large structures to the northwest and a small structure to the northeast similar to the structures observed during the recent reconnaissance (1962-2016)

South – agricultural/undeveloped land (1937-1949); disturbed land (1955); cleared land/exterior storage areas with two small structures (1962); commercial property with two structures (1969); similar to the structures observed during the recent reconnaissance (1973-2016)

East – agricultural/undeveloped land with an access drive (1937 & 1940); similar to the previous photograph with the exception of an improved access drive with exterior storage (1949 & 1955); a roadway followed by undeveloped land with an access drive (1962); a roadway followed by a commercial property to the northeast and vacant land to the southeast (1969 & 1973); similar to the structures observed during the recent reconnaissance (2006-2016)

West – a railroad followed by agricultural/undeveloped land with a farmstead fronting a far west roadway (1937); a railroad followed by a commercial properties with tank farms (1940-1978); a railroad followed by a commercial property to the southwest and a commercial property with a tank farm to the northwest (1983-1993); similar to the structures observed during the recent reconnaissance (2000-2016)

No visual indications of bulk storage or mixing facilities were within the Subject Property with the exception of the municipal water treatment storage tank. The historical use of the Subject Property for farming purposes (i.e., the potential use of pesticides and herbicides within the subject property) or the municipal water treatment storage tank in and of itself are not currently considered to represent a significant environmental concern to the subject property.

Historical railroad tracks/spurs were located within the northwestern portion of the Subject Property. Railroad tracks are typically constructed of unknown fill that presents a potential for introducing contaminated material to the vicinity. In addition, railroad ties are often treated with creosote and/or oils, and herbicides and/or oils are used to control encroaching vegetation. Therefore, the presence of the historic railroad track/spur has the potential to adversely impact the natural resources of the Subject Property is considered to be an REC.

The review of aerial photographs identified the historical use of the west adjacent properties with a large tank farm from the 1940s through the early 1990s. Therefore, Atlas concludes that the potential releases from the west adjacent properties represents *recognized environmental conditions*.



5.2.2 Fire Insurance Maps

A search for fire insurance maps for the Subject Property and surrounding area was conducted by EDR. No such maps for the Subject Property area were available. A copy of the Certificate of No Sanborn Map Coverage is included in Appendix G.

5.2.3 Property Tax Files

Atlas reviewed reasonably ascertainable tax files obtained from the Ann Arbor Assessing Department. Documentation is included in Appendix G. Records indicate that the Subject Property is designated as Parcel #09-12-04-200-013 and includes 0.73-acres of land. Additional records provided by the City of Ann Arbor indicate a permit to remove underground tank the Subject Property dated October 1, 1991. The current owner is indicated as the City of Ann Arbor – Water Treatment.

The review of available Assessing Department records did not identify past uses indicating *recognized environmental conditions* in, on, or at the property with the exception of the UST.

5.2.4 Recorded Land Title Records

The acquisition of recorded land title records was not required by the scope of work for the Phase I ESA.

5.2.5 Historical USGS Topographic Maps

Atlas reviewed available historical USGS Topographic Maps for information regarding past uses of the Subject Property and surrounding area on historicaerials.com. The following are descriptions and interpretations from the topographic map review.

TOPOGRAPHIC MAP SUMMARY		
Year	Subject Property	Surrounding Area
1906, 1920, 1944, 1951, 1954	Undeveloped with intermittent stream	Undeveloped to the north, east and south and a western railroad followed by vacant land with a structure fronting a far west roadway
1967	Vacant land with a long northern structure and two southern structures	Structure(s) to the north, a roadway followed by vacant land to the east, vacant land with a southwestern structure, and a western railroad followed by structures
1974, 1978, 1980, 1984, 1989	Vacant land with a long northern structure, two southern structures, and a northwest tank	Structure(s) to the north, a roadway followed by a structure to the east, vacant land with a southwestern structure, and a western railroad followed by structures
2014, 2017	No buildings are depicted on these maps	No buildings are depicted on these maps

The review of historical topographic maps did not identify past uses indicated recognized environmental conditions in, on, or at the Subject Property or the surrounding area.

5.2.6 City Directories

Research regarding the availability of historical city directories was obtained from EDR. The EDR-City Directory Image Report that included a search of city directories for the years 2017-1932 in approximate five year intervals. Documentation is included in Appendix G. A summary of findings follows with years listed:



Address	Listing	Years Listed
SUBJECT PROPERTY		
2000 South Industrial Highway	City of Ann Arbor/Fire Inspections	2014
	City of Ann Arbor Water Utility	2005
	Ann Arbor Utilities Dept	2000, 1995
	City Util Field Sv	1992
	City Utilities Dept	1988, 1984, 1979, 1974, 1969, 1964
	Frisinger rd contr	1960
2050 South Industrial Highway	Ecology Center Recycling Sta	1988, 1984, 1979
NORTH ADJACENT		
1980 South Industrial Highway	Donald C Schorling USARC	2017, 2014
	US Army Reserve Training	2010
	Army	2005
	Private Individual/Army	2000
	U S Army Reserve Center	1995, 1992, 1988, 1984, 1979, 1974, 1969, 1964
SOUTH ADJACENT		
2200 South Industrial Highway	Commercial Entities	2017, 2014
	Ann Arbor Door Systems/Office Repair/Goyette Mech/Housekeeping Associates	2010
	Ann Arbor Door Systems/Goyette Mech/Housekeeping Associates	2005
	Commercial Entities	2000, 1995, 1992
	Ann Arbor Cleaning Supply Co	1988
	Commercial Entities	1984, 1979
	Ann Arbor Cleaning Supply Co/Miller Martin/Wallaby Incorporated/Washtenaw Contractors Associates	1974
	Harper Electric/Ann Arbor Cleaning Co	1969
NORTHEAST ADJACENT		
2025 South Industrial Highway	Wolverine Supplu Inc. whol plmb sups	2017, 2014, 2010, 2000, 1995, 1992, 1988, 1984, 1979, 1974
SOUTHEAST ADJACENT		
2075 South Industrial Highway	Steve Steeb Service/True Tech Auto Repair	2017, 2014
	True Tech Automotive Repair	2010, 2005, 2000
	Deterrent Auto Scr/Diversfd Auto	1995
	Deterrent Auto Scr/Diversfd Auto/Tuff-Kote Dinol	1992
	Diversified Auto automotive rustproofing	1988



	Tuff Kote Dinol automotive rustproofing	1984, 1979
	NORTHWEST ADJACENT	
2115 South State Street	Glenn Ann Towing & Repair/Jourdens Automotive	2017
	Automotive Entities	2014, 2010
	Campus Auto Sales & Rentals/Jourdens Automotive Inc	2005
	Automotive Entities	2000
	AA Auto Rental/Jourdens Automotive Svc	1995, 1988, 1984, 1979
	Carlton Oil Co	1974
	Troup Marathon Distr oil	1969, 1964
	Marathon Oil Co	1960, 1955
	The Ohio Oil Co	
	SOUTHWEST ADJACENT	
2141 (2151) South State Street	Commercial Entities	2017, 2014, 2010
	Gallup Charles LLC/Commercial Entities	2005
	Commercial Entities	2000
	Gallup-Silkworth	1995
	Gallup-Silkworth/Hop in Food Stores/Vedder Electric	1992
	Gallup-Silkworth Co fuel oil	1988, 1984, 1979, 1974, 1969, 1964
	Gallup-Silkworth Oil Co Inc fuel oil/Automotive Sup Co auto parts	1960
	Gallup A W Co/Gallup-Silkworth Oil Co	1955

Refer to Section 5.4 for a discussion of the prior use of the Subject Property and adjacent properties.



5.2.7 Building Department Records

Atlas reviewed available on-line building information at the City of Ann Arbor Building Department for the Subject Property. Documents provided included demolition of historical warehouse and commercial building renovations on the site, building and electrical permits, and proposed re-development plans for the site. The following pertinent information was identified in the building records:

- February 21, 1955 – new office building.
- March 2, 1955 – request for septic system installation. Test holes determined ground water level was 12 to 18 inches below grade at proposed field. Site rendered unsuitable for septic tank sewage disposal installation.
- June 3, 1955 – install three (3) 20,000-gallon fuel oil tanks 10-foot diameter & 29.5-feet high.
- February 10, 1956 – certificate of compliance and occupancy, the Lewis & Frisinger Co.
- July 20, 1956 – notification of address change from 1110 Harpst to 2000 Industrial Highway.
- March 13, 1963 – fire report in rear of garage, extensive damage.
- September, 1963 – Proposal for Construction of Garage Building. Existing floor drains and hydraulic hoist mechanisms identified.
- December 24, 1963 – erect & repair vehicle area.
- September 26, 1967 – raze warehouse.
- October 31, 1967 – foundation prints for a 4.2 million gallon reservoir.
- July 30, 1976 – Recycling Center address change from 2000 S. Industrial to 2050 S. Industrial.
- January 5, 1979 – building permit application underground gasoline tanks, 12,000-gallon.
- January 10, 1979 – building permit underground gasoline tanks.
- October 16, 1980 – building permit application underground fuel oil tank, 12,000-gallon.
- October 21, 1980 – building permit underground gasoline tanks.
- October 25, 1989 – building permit oil and battery containment structure (2050 S. Industrial).
- October 3, 1991 – building permit remove underground tank, 550-gallon diesel fuel at 1990 South Industrial Highway Pump Station.
- July 12, 2013 – mechanical permit issued for installation of new furnace and A/C.
- June 11, 2020 – electrical permit application for the installation of wiring for new electric car charger.
- June 22, 2020 – electrical permit issued for the installation of aboveground fuel storage tank.
- March 26, 2021 – electrical permit issued for the installation of pads for DTE transformer & equipment for EV charging.

The review of building department files did not identify past uses indicating *recognized environmental conditions* in, on, or at the property with the exception of a former rail road spur located within the western portion of the Subject Property, historical vehicle maintenance and repair with hydraulic hoists, historic oil and battery containment structure, historic presence of USTs and lack of pertinent supporting documentation.

5.2.8 Zoning/Land Use Records

Atlas reviewed available historical zoning/land use records online for information regarding past uses of the Subject Property and surrounding area. According to the Ann Arbor Zoning Map dated 2022, the Subject Property is zoned as Public Land – PL.

5.2.9 EDR Exclusive Historical Records

Atlas reviewed potential “high risk historical records” search results provided by EDR. The EDR Exclusive Historical Record database is composed of selected national historical collections of business directories, proprietary industry data, government agency archives, and other records including gas stations, dry cleaners, manufactured gas plants, landfills and leaking underground storage tank sites that were available to EDR researchers.



The database report identified two historic auto sites within one-eighth mile of the Subject Property. The identified sites are as follows:

- 2115 S State Street – Glen Ann Towing. Various petroleum products, gasoline service stations, general automotive repair shops are listed at this address in 1979 through 2014 located across railroad tracks to the west of the Subject Property (approximately 115 feet away). This location it is also listed on the database report; see Section 5.4.1 for further discussion.
- 2141-2151 S State Street – Gallup-Silkworth Com. Various fuel oil dealers, gasoline service stations, petroleum bulk stations, engine fuels and oil are listed at this address in 1971 through 1994 located across railroad tracks to the west of the Subject Property (approximately 115 feet away). This location it is also listed on the database report; see Section 5.4.1 for further discussion.

The database report identified sixteen LUST sites within ½ mile, discussed as follows:

- The Subject Property address of 2000 S Industrial Hwy, known as Utilities Dept-Field Services/City of Ann Arbor. See Section 5.4.1 for further discussion.
- Marathon BP #243, addressed as 2115 S State St located across railroad tracks to the west of the Subject Property (approximately 115 feet away). See Section 5.4.1 for further discussion.
- Gallup-Silkworth Inc, addressed as 2141 S State St located across railroad tracks to the west of the Subject Property (approximately 115 feet away). See Section 5.4.1 for further discussion.

The remaining 13 LUST sites were identified over 500-feet away from the Subject Property and therefore not considered to be a *recognized environmental conditions* based on distance considerations, topography, and likely groundwater flow direction.

5.2.10 Other Historical Sources

Atlas reviewed the internet site <https://offcampus.umich.edu/article/re-use-recycling-ann-arbor> and <https://www.recycleannarbor.org/about/history> for historical pertinent information regarding past Subject Property usage:

- This site is identified as the Ecology Center throughout the 1980s for Recycle Ann Arbor until the drop-off station is moved from the South Industrial Highway location in 1997. According to the University of Michigan website, Re-Use/Recycling in Ann Arbor Accepted Recycling for 2021 at the Subject Property included scrap metal, cardboard, mixed paper; metal cans; glass bottles and jars; plastic bottles, containers and tubs; "Aseptic" and "Tetrapak" cartons.

No other readily available historical sources were reviewed.

5.3 Prior Assessments

Atlas Technical Consultants LLC previously prepared the following reports.

- A Closure Report for the City of Ann Arbor Fuel Farm for the Subject Property on behalf of the City of Ann Arbor, Mr. Matthew J. Kulhanek – City of Ann Arbor Fleet & Facilities Manager, dated October 21, 2021. A suspected release associated with the removal of the UST system was reported June 29, 2020. The primary source of the release was suspected to be from the dispenser locations due to soil impact observed at shallow sample locations collected 3 feet bsg underneath the former dispenser area. The area where the dispensers were located were subsequently excavated to 4 feet bsg removing the impacted soil and disposed of at Woodland Meadows Landfill. In summary, the impacted areas were excavated and removed from the site and the area resampled indicating soil samples were below Part 213 Risk Based Screening Levels (RBSLs) and groundwater sampling



indicated no impact in any monitoring wells. Furthermore, the Department of Environment, Great Lakes, and Energy issued a Notice of Closure Report Considered Approved, dated February 18, 2022, for the confirmed release. Based on the above, historical site uses represent a *historical recognized environmental condition* for the Subject Property.

- A Soil and Groundwater Investigation Report for the City of Ann Arbor Utilities Dept./Field Services Orphan Heating Oil UST for the Subject Property on behalf of the City of Ann Arbor, Mr. Matthew J. Kulhanek – City of Ann Arbor Utilities Department, dated January 7, 2022. A former 1,000-gallon heating oil UST was removed on June 10 and 11, 2021. Two (2) tank end, four (4) sidewall, and one (1) stockpile soil samples were collected and analyzed. Various Volatile Organic Compounds (VOCs) and Polynuclear Aromatic Hydrocarbons Compounds (PNAs) were found to exceed the Part 201 Generic Nonresidential Clean-up Criteria (GCC). In addition, Ethylbenzene, 1,2,4-TMB and xylenes were found to exceed the non-residential, recommended indoor air screening levels (MSSLNR) in samples Bottom-2, SW-2 and SW-4. Subsequent remedial investigations took place November 22-29, 2022. Based on the soil, soil gas and groundwater data, it appears that the extent of the petroleum impact has been defined to the south and west. However, it appears to have migrated under the Site building to the north and east. Groundwater at the MW-2 location has been impacted, however, the Oil in Soil® field screening results indicate that NAPL is not an issue at this Site. Soil gas data shows minimal impacts, all of which are below criteria.

Based on the soil, soil gas, and groundwater data, additional activities were deemed necessary. Atlas recommended the following activities:

1. The excavation floor and sidewall samples indicate that petroleum impact in excess of the Part 201 GRCC remains in these areas, and the (impacted) stockpiled soils were returned to former excavation following removal of the orphan heating oil UST. In addition, the soil samples at the MW-2, VP-2, and MW-3 locations also were found to exceed the Part 201 GRCC. Atlas recommended that these impacted soils (approximately 150-cubic yards) be removed to a landfill.
2. The contaminant plume appears to extend below the slab foundation of the Site building. Atlas recommended the following activities within the building: a. Shallow, hand augered soil borings advanced within the building to evaluate subslab conditions with respect to the contaminant plume. Soil and groundwater samples to be collected from each boring, and submitted to an analytical laboratory to be analyzed for BTEX, TMBs, butylbenzene isomers, 2-methylnaphthalene, naphthalene, PNAs, and DRO b. Sub-slab soil gas sample pins be installed within the Site building to assess the potential for vapor intrusion into the Site building exists. Soil-gas samples to be collected from each pin and submitted to an analytical laboratory to be analyzed for DVOCs.
3. Once the excavation of the impacted soils described in bullet 1 above has been accomplished, the damaged/destroyed groundwater monitoring wells and/or soil gas implants (MW-2, MW-3, and VP-2) should be replaced, and three additional groundwater monitoring wells installed: a. One (1) well to be placed between MW-1 and MW-2 at the southwest corner of the plume, b. Two (2) wells to be placed on the northeast side of the building.
4. Quarterly soil gas and groundwater monitoring: Four additional quarterly events.

The reports are presented under separate covers.

5.4 Standard Environmental Records

The regulatory agency database report discussed in this section, provided by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut, was reviewed for information regarding reported use or release of hazardous substances and petroleum products on or near the Subject Property. Unless otherwise noted, the information provided by the regulatory agency database report and other sources referenced in this report,



were considered sufficient for REC, CREC, HREC or de minimis condition determinations without conducting supplemental agency file reviews. Atlas also reviewed the "unmappable" (also referred to as "orphan") listings within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence, but are potentially in the general area of the Subject Property, based on the partial street address, city, or zip code. Unmappable site that were identified by Atlas as being within the approximate minimum search distance from the Subject Property, based on the site reconnaissance and/or cross-referencing to mapped listings, are included in the discussion within this section. The complete regulatory agency database report may be found in Appendix E.

The following is a summary of the findings of the regulatory agency database review.

SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS			
Regulatory Database	Search Distance (Miles)	Subject Property?	# Sites Listed
National Priority List (NPL)	1	No	0
Proposed National Priority List (Proposed NPL)	1	No	0
Federal Super Liens (NPL Liens)	Subject Property	No	0
National Priority List Deletions (Delisted NPL)	1	No	0
Corrective Action Report (CORRACTS)	1	No	0
Federal Resource Conservation and Recovery Act Treatment, Storage, and Disposal Facilities (RCRA-TSDF)	0.5	No	0
RCRA Large Quantity Generators (RCRA-LQG)	0.25	No	0
RCRA Small Quantity Generators (RCRA-SQG)	0.25	No	0
RCRA – Very Small Quantity Generators (RCRA-VSQG)	0.25	No	10
RCRA – Non Generator (RCRA-NonGen/NLR)	0.25	YES	9
Engineering Control Sites List (US ENG Controls)	0.5	No	0
Sites with Institutional Controls List (US INST Controls)	0.5	No	0
Federal Emergency Response Notification System (ERNS)	Subject Property	YES	1
Land Use Control Information System (LUCIS)	0.5	No	0
Superfund Enterprise Management System (SEMS)	0.5	No	1
Superfund Enterprise Management System Archive (SEMS Archive)	0.5	No	0
Federal Facility Site Information Listing (Federal Facility)	0.5	No	0
Underground Storage Tank Listing (FEMA UST)	0.25	No	0
State and Tribal Priority Site List	1	No	0
State and Tribal Landfill or Solid Waste Disposal Sites	0.5	No	0
State and Tribal Leaking Underground Storage Tanks (LUST)	0.5	YES	17
State and Tribal Registered Underground Storage Tanks (UST)	Subject Property & Adjoining	YES	4
Recovered Government Archive LUST (MI RGA LUST)	Subject Property	YES	3
Registered Aboveground Storage Tank (AST)	0.25	YES	5
State and Tribal Institutional Control/Engineering Control Registry	Subject Property	No	0
State and Tribal Voluntary Action Program Sites (VCP)	0.5	No	0
State and Tribal Brownfield Sites	0.5	No	0
State and Tribal Baseline Environmental Assessment (BEA)	Subject Property & Adjoining	No	0
Inventory of Facilities (MI INVENTORY)	0.5	YES	25
Facility Index System/Facility Registry System (FINDS)	Subject Property	YES	2
Enforcement & Compliance History Information (ECHO)	Subject Property	YES	1
Waste Data System (WDS)	Subject Property	YES	1



5.4.1 Federal, State and Tribal Agency Database Findings

The Subject Property address, 2000 South Industrial Highway, was identified on the searched databases with details as follows:

2000 S. Industrial Hwy – listed on the ERNS database. Incident #337490 was from a 1,000-gallon a fuel oil spill from an open valve on an aboveground storage tank on construction site dated April 21, 1994. Approximately 750-gallons of diesel fuel was released, impacting a storm drain, the Huron River, and basin located a mile away. Removal and booms were set at retention basin downstream by Atsalis Brothers.

Ann Arbor MS4 - listed on the RCRA, FINDS (Facility Index System) and ECHO (Enforcement & Compliance History Online) databases which indicate the generation of hazardous waste. RCRA details identify this site as a Non-Generator as of 2007 with past generation of ignitable waste and registration as a small quantity generator in 1992. The listings did not identify any violations. Atlas reviewed online WDS (Waste Data System) records which include RCRA-related data. The WDS data further indicated that the site was no longer in business in 2007 but registered as a SQG generator in 1992. FINDS identification is related to this site's RCRA and US National Pollutant Discharge elimination System (NPDES)

Utilities Dept-Field Services – listed on the MI RGA LUST database. LUST details indicate LUST incidents from 1997 through 2012.

South Industrial Facility – listed on the AST database. The AST database identified the following AST:

- 5,000-gallon unknown contents AST installed in 2009; noted as currently in use

Utilities Dept/Field Services – listed on the UST, LUST, Inventory, and WDS databases. LUST details indicate one release, gasoline/diesel, with a closed status that occurred in 1997. The Inventory listing is associated with a LUST release and indicates “risks not determined” and “open”. The WDS database identifies two occupants, City of Ann Arbor and Atsalis Brothers Painting Co. The UST database identified the following USTs:

- 15,000-gallon diesel installed in 1992; noted as currently in use
- 15,000-gallon gasoline installed in 1992; noted as currently in use
- 1,000-gallon diesel UST unknown installation date removed in 1992
- 2,000-gallon diesel UST unknown installation date removed in 1992
- 2,000-gallon gasoline UST unknown installation date removed in 1992
- 12,000-gallon gasoline UST installed 1980 removed in 1992
- 12,000-gallon gasoline UST installed 1979 removed in 1992

City of Ann Arbor – listed on the MI RGA LUST database. LUST details indicate LUST incident in 1991.

In attempt to obtain further information regarding database listings, Atlas submitted a Freedom of Information Act (FOIA) request to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and Licensing and Regulatory Affairs (LARA). The following is a summary of pertinent information obtain from a review of provided documents:



LARA files

- 2009 AST Plan Review – proposed one (1) 5,000-gallon double wall AST for private motor vehicle fueling
- 2009 Facility Inspection Report – indicates violation for documentation of miscellaneous violations
- 2009 Facility Information Sheet – indicates facility has one 5,000-gallon E-85 tank
- 2010 Facility Inspection Report – indicates facility is certified; an inspection also included E-85 tank and dispenser
- 2013 Facility Inspection Report – indicates facility approved
- 2015 Automotive Service Station Checklist – indicates violation for documentation of financial responsibility
- 2015 Facility Inspection Report – indicates violation for documentation of miscellaneous violations; an inspection also included an interview with a representative, Lynn Crum
- 2016 UST Registration Form – indicates owner amended for name change of A & B operator only.
- 2016 Facility Inspection Report – indicates violation for documentation of miscellaneous violations; an inspection also included an interview with a representative, Lynn Crum
- 2018 Facility Inspection Report – indicates violation for documentation of miscellaneous violations; an inspection also included an interview with a representative, D.L. Crum
- 2018 Facility Inspection Report – indicates facility is certified, combined inspection of UST and AST
- 2018 UST Registration Form – indicates owner amended for name change of B operator only.
- 2019 Facility Inspection Report – indicates violation for documentation of compliance for spill prevention equipment and miscellaneous violations; an inspection also included an interview with a representative, Lynn Crum
- 2019 Facility Inspection Report – indicates violation for documentation of compliance for spill prevention equipment
- 2020 Removal Notice – indicates that one 15,000-gallon diesel and one 15,000-gallon gasoline USTs will be removed
- 2020 Facility Inspection Report – indicates that 2 tanks have been removed from this location; an inspection also included an interview with a representative from Matzak and ATC
- 2020 Facility Inspection Report – indicates owner has corrected all violations cited except for Tank UTK-094986-15 (Diesel) that was Red Tagged for failure to demonstrate spill prevention; an inspection also included an interview with a representative, Lynn Crum
- 2020 Facility Inspection Report – indicates owner has installed one 8,000-gallon AST; an inspection also included an interview with a representative, Lynn Crum

EGLE (previously known as Michigan Department of Environmental Quality [MDEQ]) files

- 1996 MDEQ incident worksheet – release of portable diesel fuel spill site. Approximately 500-gallons released and impacted soil and surface water.
- 1996 Smith Technology Corporation letter to MDEQ – confirms receipt of closure sampling associated and supporting documentation with confirmed release of Atsalis diesel fuel spill site around the existing water reservoir tank. Final excavation closure samples demonstrated compliance with Part 201 at that time. A total of 1,236 cubic yards of soil and 19,300-gallons of water/product were removed during cleanup operations.
- 1996 Smith Technology Corporation letter to MDEQ – confirms receipt of closure sampling associated with confirmed release of Atsalis diesel fuel spill site. Results were non-detect for benzene, ethylbenzene, toluene, and total xylenes (BTEX) and PNAs for B-23 supplement excavation sampling.



- 1997 Smith Technology Corporation Closure Report – Atsalis diesel fuel spill. On April 21, 1996 a diesel fuel release was discovered from a 1,000-gallon temporary AST located on the west side of the existing water reservoir tank. Impacted soil was located north, west, and south of the tank. The release entered a sewer manhole on the northern adjacent Army Reserve Property and travelled to Mill Creek and entered a south Subject Property catch basin. The release to the sewers and surface water was cleaned up by contractor (HI-PO). 21 borings were advanced around the water reservoir and depth of impact appeared to range from 2 to 5 feet bsg. Final excavation closure samples demonstrated compliance with Part 201 at that time. A total of 1,236 cubic yards of soil and 19,300-gallons of water/product were removed during cleanup operations. The site was completely restored to original condition except for sod on the Army reserve property. Excavated areas were backfilled with MDOT Class II sand, 21A gravel, and topsoil.
- 1997 MDEQ Letter to Smith Technology Corporation – confirms receipt of closure associated with confirmed release dated April 21, 1996. The BTEX and PNA contamination from the diesel spill has been remediated via excavation and proper disposal and the incident is considered closed.
- 2020 LUST Initial Assessment Report – prepared by ATC (currently Atlas) for confirmed release 0126-20 dated February 22, 2021. Refer to section 5.3 for a closure summary of the release.
- 2021 EGLE Letter to City of Ann Arbor – violation notice. The Final Assessment Report (FAR) required for Confirmed Release #C-0126-20 was due on July 6, 2021 and had not been received by the date of the letter, September 10, 2021.
- 2021 EGLE Letter to City of Ann Arbor – Notice of Closure Report Considered Approved required for Confirmed Release #C-0126-20. It is noted that EGLE may conduct an audit of the report within 90 days.
- 2021 EGLE determined Site-Specific Criteria Evaluation for 2000 S Industrial Highway for volatilization to indoor air criteria (SSVIAC).

The following listings with a known or significant potential for release and impact in, on, or to the Subject Property were identified in the federal, state and tribal agency databases searched.

True Tech Automotive Repair

2075 S Industrial Highway

Ann Arbor, MI 48104

Federal Databases: None listed

State Databases: MI INVENTORY, MI BEA, MI WDS

Tribal Databases: None listed

Approximate Distance from the Subject Property: Adjacent (across Industrial Highway)

Approximate Direction from the Subject Property: East

Assumed Groundwater Gradient: Downgradient

Regulatory Data Summary: The inventory of other known facilities (Inventory of Facilities) consists of all known facilities where there has been a release of a hazardous substance(s) in excess of the Part 201 Residential Cleanup Criteria or Part 213, Leaking Underground Storage Tanks, of the NREPA Residential Risk-Based Screening Levels (RBSLs), and/or where response actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use or under Part 213 to meet Residential RBSLs. Risks have not been determined at this site. Atlas reviewed online WDS (Waste Data System) records which include RCRA-related data. The WDS data further indicated that the site was in business but no longer generating waste in 1996 and registered as a Liquid Industrial Waste generator in 1970.



Discussion: Atlas requested applicable records from EGLE for this site. Provided documents included a Baseline Environmental Assessment (BEA) report from 2008 and 2012. The 2008 BEA indicated that 12 soil borings had been installed on this property to address former usage as a vehicle repair facility, applicator of rust inhibiting vehicle undercoating, heavy floor staining, and contamination associated with a former UST. Due to exceedance of the Drinking Water Protection, Drinking Water, Groundwater Surface Water Interface, and Groundwater Surface water Interface Protection Criteria, the site qualified as a “facility”. The 2012 BEA was submitted utilizing the 2008 BEA data. In the closest boring to the Subject Property (GP-1), which was installed on the northwest corner of this property (approximately 130 feet away), naphthalene contamination was identified at a concentration exceeding the Groundwater Surface Water Interface Protection Criteria.

Although soil contamination was identified on this property, based on distance, existing infrastructure, and presumed downgradient location of the identified contamination, this site does not represent a *REC*.

US Dept/Defense – 88th Regional Support Command

1980 S Industrial Hwy

Ann Arbor, MI 48104

Federal Databases: RCRA-VSQG, FINDS, ECHO

State Databases: None listed

Tribal Databases: None listed

Approximate Distance from the Subject Property: North adjacent

Approximate Direction from the Subject Property: North

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: This business is listed as a RCRA-VSQG site. RCRA details indicate that the property has been identified as a Conditionally Exempt Small Quantity Generator in 1997, 2002 and 2017 and a Small Quantity Generator in 2001 and 2010 of ignitable waste. No violations are associated with this site’s RCRA designation. This site’s FINDS and ECHO listings are related to the RCRA identification.

Discussion: No evidence of current hazardous waste generation or storage was observed on the exterior of this property near the Subject Property boundaries during the recent reconnaissance. Based on distance considerations (approximately 140 feet to building), no violations and the presence of intervening infrastructure (including parking lots and utility corridors), the potential for impact from this site is considered low. As such, it is not considered to be a *recognized environmental condition*.

Industrial Pumping Station

1990 S Industrial Hwy

Ann Arbor, MI 48104

Federal Databases: None listed

State Databases: UST

Tribal Databases: None listed

Approximate Distance from the Subject Property: North adjacent

Approximate Direction from the Subject Property: North

Assumed Groundwater Gradient: Downgradient

Regulatory Data Summary: This property is listed as an Underground Storage Tank (UST) site. One 550-gallon “removed from ground” USTs containing diesel installed in 1972 and removed in 1991 is associated with this site. No known Leaking Underground storage Tank incidents are associated with this UST.

Discussion: Atlas requested applicable records from LARA for this site. Provided documents included suspect release and removal reports from 1991. During the 1991 removal of the UST no visual or olfactory indications of a release were observed. However, elevated organic vapor analyzer readings were noted. Subsequent soil sampling for PNAs from the excavation were non-detect. Based on the analytical results, it was requested that the suspected release reported be changed to



no release. Based on the reviewed documentation, this site is considered to have a low potential to adversely impact the subject property and no further investigation is recommended.

Marathon BP #243

2115 S State Street

Ann Arbor, MI 48104

Federal Databases: None listed

State Databases: MI LUST, MI UST, MI INVENTORY, MI WDS

Tribal Databases: None listed

Approximate Distance from the Subject Property: Adjacent (across railroad tracks)

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: The inventory of other known facilities (Inventory of Facilities) consists of all known facilities where there has been a release of a hazardous substance(s) in excess of the Part 201 Residential Cleanup Criteria or Part 213, Leaking Underground Storage Tanks, of the NREPA Residential Risk-Based Screening Levels (RBSLs), and/or where response actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use or under Part 213 to meet Residential RBSLs. The source of contamination was noted as a “closed” LUST. Atlas reviewed online WDS (Waste Data System) records which include RCRA-related data. The WDS data further indicated that the site was a CESQG and Liquid Industrial Waste Generator in 2017 and registered as a Liquid Industrial Waste generator in 1970. One 1,000-gallon unknown substance, one 2,000-gallon gasoline, and one 550-gallon gasoline USTs “removed from ground” are associated with this site. One “closed” LUST incident dated June 23, 1997 indicating that the release had been remediated to the standards set at that time is associated with these USTs.

Discussion: Atlas requested applicable records from LARA for this site. Limited provided documents included confirmed release and removal documents from 1979 and 1991. During the 1991 removal of a 2,000-gallon gasoline UST visual and olfactory indications of a release were observed and elevated organic vapor analyzer readings were noted. Based on the reviewed documentation, use of the property, known contamination, and cross to up-gradient location, it is considered to be a REC.

State Street Auto Service

2115 S State St

Ann Arbor, MI 48104

Federal Databases: RCRA-VSQG, FINDS, ECHO

State Databases: None listed

Tribal Databases: None listed

Approximate Distance from the Subject Property: Adjacent (across railroad tracks)

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: This business is listed as a RCRA-VSQG site. RCRA details indicate that the property has been identified as a Very Small Quantity Generator in 2017 of ignitable waste and a Conditionally Exempt Small Quantity Generator in 1993 and 2017. Four violations are associated with this site’s RCRA designation with three achieving compliance. This site’s FINDS and ECHO listings are related to the RCRA identification.

Discussion: No evidence of current hazardous waste generation or storage was observed on the exterior of this property near the Subject Property boundaries during the recent reconnaissance. However, based on the additional database listings including historical automotive and UST/LUST use of the property, known contamination, and cross to up-gradient location, it is considered to be a REC.



Glen Ann Towing

2115 S State St STE A

Ann Arbor, MI 48104

Federal Databases: None listed

State Databases: EDR Hist Auto

Tribal Databases: None listed

Approximate Distance from the Subject Property: Adjacent (across railroad tracks)

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: This business is listed as a Historic Auto Station site from 1979 through 2014. Various entities operated as a petroleum products, gasoline service station, and general automotive repair shop.

Discussion: Based on the historical automotive and gas station use of the property (over thirty years) and cross to up-gradient location, it is considered to be a REC.

Marathon Oil Co

2115 S State St

Ann Arbor, MI 48104

Federal Databases: None listed

State Databases: AST

Tribal Databases: None listed

Approximate Distance from the Subject Property: Adjacent (across railroad tracks)

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: This property is listed as an Aboveground Storage Tank (AST) site. Eight unidentified substances/unknown quantity "removed from the premises" ASTs in 1993 are associated with this site. No known leaks or spills are associated with these ASTs.

Discussion: However, based on the additional database listings including historical automotive and UST/LUST use of the property, known contamination, and cross to up-gradient location, it is considered to be a REC.

Gallup Silkworth Petroleum

2141 S State St

Ann Arbor, MI 48104

Federal Databases: RCRA-NonGen, FINDS, ECHO

State Databases: AST

Tribal Databases: None listed

Approximate Distance from the Subject Property: Adjacent (across railroad tracks)

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: This business is listed as a RCRA-NonGen site. RCRA details indicate that the property has been identified as a Non Generator in 1989 of ignitable waste. No violations are associated with this site's RCRA designation. This site's FINDS and ECHO listings are related to the RCRA and NPDES identifications. The NPDES permit expired in 2005. One unidentified substance 30,000-gallon "removed from the premises" AST in 1993 is associated with this site. No known leaks or spills are associated with this AST.

Discussion: No evidence of current hazardous waste generation or storage was observed on the exterior of this property near the Subject Property boundaries during the recent reconnaissance. However, based on the additional database listings including historical automotive and UST/"open" LUST use of the property, known contamination, and cross to up-gradient location, it is considered to be a REC.



Gallup-Silkworth Company Inc

2141-2151 S State St

Ann Arbor, MI 48104

Federal Databases: None listed

State Databases: EDR Hist Auto

Tribal Databases: None listed

Approximate Distance from the Subject Property: Adjacent (across railroad tracks)

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: This business is listed as a Historic Auto Station site from 1971 through 1994. Various entities operated as a fuel oil dealers, gasoline service station, petroleum bulk station, convenience store, and engine fuels and oils.

Discussion: Based on the historical automotive and gas station use of the property (over twenty years) and cross to up-gradient location, it is considered to be a REC.

Gallup-Silkworth Inc

2141 S State Street

Ann Arbor, MI 48104

Federal Databases: None listed

State Databases: MI LUST, MI UST, MI INVENTORY, MI BEA, MI AST, MI WDS

Tribal Databases: None listed

Approximate Distance from the Subject Property: Adjacent (across railroad tracks)

Approximate Direction from the Subject Property: West

Assumed Groundwater Gradient: Crossgradient

Regulatory Data Summary: The inventory of other known facilities (Inventory of Facilities) consists of all known facilities where there has been a release of a hazardous substance(s) in excess of the Part 201 Residential Cleanup Criteria or Part 213, Leaking Underground Storage Tanks, of the NREPA Residential Risk-Based Screening Levels (RBSLs), and/or where response actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use or under Part 213 to meet Residential RBSLs. The source of contamination was noted as an "open" LUST. Atlas reviewed online WDS (Waste Data System) records which include RCRA-related data. The WDS data further indicated that the site was out of business and no waste generation 1989. Seven ASTs ranging from unknown to 1,000-gallon unknown substances "removed from the premises" in 1991 and 1992 are associated with this site. Twelve USTs ranging from 1,000 to 20,000-gallon gasoline, diesel, fuel oil, kerosene, and used oil "removed from ground" or "closed in place/removed from ground" in the 1990s are associated with this site. Four "open" LUST incidents dated April 2, 1990, April 3, 1990, October 12, 1990, and September 16, 1992 are associated with these USTs.

Discussion: Atlas requested applicable records from EGLE and LARA for this site. Provided documents included a Baseline Environmental Assessment (BEA) report from 2018. The BEA indicated that 52 soil borings had been installed on this property to address former usage as a vehicle repair facility, multiple former USTs with "open" LUST incidents, and potential contamination migration from the northern adjacent property. A Remediation Status Report from May 1998 was reviewed. A groundwater treatment system had been operating consisting of two recovery wells. Two trailer-mounted carbon beds were used to remove the free product from the groundwater. After treatment, the water was discharged to a nearby ditch (NPDES permit obtained). A soil vapor extraction system was equipped with sparge and SVE blowers was on-site but had not yet been installed. The remediation system began operating on January 3, 1998 and was shut down in March-April 1998, then re-configured to operate as a pump and treat system. On April 14, 1998, the system was shut down due to the presence of free product in the carbon treatment unit. Approximately 34,543-gallons of groundwater had been treated. Select VOCs were detected in the influent stream. An Updated report from 2008 detailed the last known period of remedial work on the property. During June 2008, petroleum-impacted soil was removed from the southeast portion of the property in the



area of free product. A total of 1,920 cubic yards of soil were removed and 17,356-gallons of groundwater was removed. Groundwater samples were collected from 25 monitoring wells as well. All of the soil samples collected from the excavation were below Csat except for xylenes and 1,2,4-trimethylbenzene at sample location NW-4 which was collected from the northwest wall of the excavation relatively close to the former USTs. Due to the age of the data, the 2018 BEA did not use the prior data. On February 22, 2018 10 soil borings were installed at the property. Based on the concentrations of VOCs, PNAs, and metals in soil and/or groundwater at the property above the GRCC, the property was considered a “facility”. In the closest boring/monitoring well to the Subject Property (GP-6), which was installed on the east central portion of this property (approximately 200 feet away), benzene, ethylbenzene, 2-methylenaphthalene, naphthalene, phenanthrene, 1,2,4-trimethylbenzene, 1,2,5-trimethylbenzene, and xylenes (total) contamination was identified at a concentration exceeding the Drinking Water and Groundwater Surface Water Interface Protection Criteria.

Based on the historical automotive and UST/“open” LUST use of the property, known contamination, and cross to up-gradient location, it is considered to be a REC.

Based on distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases, none of the other sites listed in the databases searched are considered to represent a likely past, present or material threat of release in, on, or at the Subject Property. Of note, the other LUST/Inventory sites identified by the database report are located greater than 500-feet from the Subject Property. Given the physical setting characteristics of the Subject Property and surrounding area, supplemental agency file reviews were not warranted to verify the database report information.

5.4.2 Local Environmental Records Sources

Local Health Department

Atlas requested to review available well and septic records pertaining to the Subject Property from the Washtenaw County Health Department. As of the date of this report, Atlas has not received a response from the Washtenaw County Health Department, regarding available well and septic records of the Subject Property. If a response is received which changes the conclusions made in this report, an addendum will be forwarded.

Fire Department

Atlas requested information from the Ann Arbor Fire Department regarding records of storage tanks, hazardous materials/waste, spills/releases or fires at the Subject Property. Sarah Alanis, Ann Arbor Clerk’s Department, provided inspections records associated with the Subject Property. See Appendix L for documentation. The following pertinent information was identified in the building records:

- May 16, 1958 – two 1,500-gallon gasoline and one 1,500-gallon diesel. Paint and oil storage in southwest corner of garage.
- March 29, 1972 – office and garages, gas heated, excellent housekeeping, gasoline UST, and paint/oil storage in garage. Building information includes an oil furnace, incinerator in the office portion, a forge, fuel oil storage, and pumps associated with the garage repair and machine shop, and oil/air heating associated with the garage and metal shop directly at the rear of the main office building.
- January 1, 1979 – 12,000-gallon gasoline UST approved.
- January 11, 1980 – inspection report with observed spray paint booth not used in water meter repair shop and service garage (south building) needs general clean up including removing excess oil on top of 55-gallon drums.
- November 13, 1980 – 12,000-gallon UST approved.
- September 19, 1989 – suspected release from a UST failed tank tightness test.



- June 4, 1991 – one 12,000-gallon gasoline (south tank) installed in 1979 and one 12,000-gallon gasoline (north tank) installed in 1990.
- April 1992 – State of Michigan notice of intent to permanently close/remove UST.
- September 15, 1992 confirmed release from 12,000-gallon gas and 12,000-diesel USTs.
- October 22, 1992 – one 15,000-gallon gasoline and one 15,000-gallon diesel.

Historical use of the Subject Property for automotive use including USTs, and lack of pertinent supporting documentation, including removal and/or sampling, for the USTs is considered a *recognized environmental condition*.

Electrical Utility

Atlas confirmed with the Michigan Public Service Commission, that DTE Energy provides electricity to the Subject Property.

Water Utility

Atlas confirmed through municipal records that the City of Ann Arbor provides potable water utilities to the Subject Property area. The municipally supplied water comes from the Ann Arbor treatment plants via the Huron River and multiple well located south of Ann Arbor. Atlas confirmed that municipally supplied water meets all drinking water standards, including those for lead. A copy of the 2020 Water Quality Report is included in Appendix L.

Sewer Utility

Atlas confirmed that the City of Ann Arbor provides municipal sewage utilities to the Subject Property area.

Other Local Environmental Records Sources

No additional local environmental records sources were reviewed.



6.0 SITE RECONNAISSANCE

The following is a summary of the date, participants and weather conditions associated with the site reconnaissance.

SITE OBSERVATION SUMMARY	
Date(s)	03/08/2021
Atlas Assessor(s)	Andrew Temerowski, Project Scientist
Escorted By	Tim Oliver, 2050 Occupant
General Weather Conditions	33°F, cloudy skies

6.1 Methodology and Limiting Conditions

The site reconnaissance consisted of visual and/or physical observations of: the Subject Property and improvements; adjoining sites as viewed from the Subject Property; and, the surrounding area based on visual observations made during the trip to and from the Subject Property as described below.

METHODOLOGY AND LIMITING CONDITIONS		
Subject Property Areas	Methodology	Notes
Exterior	Atlas observed the exterior conditions, improvements and operations of the Subject Property from safely accessible common areas, roads and/or from the understood perimeter boundaries. Significant exterior features were observed when safely accessible.	No limiting conditions
Adjoining Properties	Atlas observed properties adjoining the Subject Property from safely accessible adjacent public roads and/or along the understood Subject Property perimeter boundaries.	No limiting conditions
Interior Common Areas	Atlas observed safely accessible interior common areas such as general storage, maintenance areas, mechanical equipment rooms, utility/janitorial rooms or closets, lobbies, hallways and recreation areas.	Secured Fire Department area in 2050 S. Industrial and Ann Arbor furniture area in 2000 S. Industrial were not accessible.
Other Interior Areas with Hazardous Substances and/or Petroleum Products	Atlas observed other safely accessible areas known or suspected to be associated with the use, storage or disposal of hazardous substances and/or petroleum products	No limiting conditions

6.2 Site Reconnaissance Summary

The following is a summary of visual and/or physical observations of the Subject Property and adjoining properties on the day of the site visit. Conditions, features or operations observed, likely present or identified from interviews, records review or prior reports will be discussed further below the table, if applicable. Photographs can be found in Appendix C.

SITE RECONNAISSANCE SUMMARY		
Condition, Feature or Operation Observed or Identified?	Yes	No
Hazardous Substances	x	
Underground Storage Tanks (USTs)		x
Aboveground Storage Tanks (ASTs)	x	
Other Petroleum Products		x
Railroad Spurs		x
Pipeline Markers		x
PCB Containing Electrical Equipment	x	
Hydraulic Equipment		x



SITE RECONNAISSANCE SUMMARY		
Unidentified Substance Containers		x
Nonhazardous Solid Waste	x	
Wastewater		x
Waste Pits, Ponds and Lagoons		x
Drains	x	
Sumps/Ejectors		x
Septic Systems		x
Stormwater Management Systems	x	
Wells		x
Other	x	

Hazardous Substances

Atlas did not observe the use or storage of any other hazardous substances or petroleum products on the Subject Property with the exception of small quantities (less than five gallons) of commercial cleaning and building maintenance products throughout the Subject Property buildings. The commercial cleaning and building maintenance products were properly stored in original containers.

Underground Storage Tanks (USTs)

Atlas did not observe any evidence of USTs in, on or at the Subject Property. Refer to Section 5.3 for a discussion of the prior known historical USTs of the Subject Property.

Aboveground Storage Tanks (ASTs)

Atlas observed one 15,000-gallon diesel AST located north of the 2050 building and one 15,000-gallon gasoline AST located west of the 2050 building. Surface staining was observed on the dispenser and underlying ground surface associated with the diesel AST and water sheening was observed on the ground surface in proximity to the dispenser associated with the gasoline AST. This surface staining is considered de minimus.

In addition, Atlas observed two 50-gallon air compressor tanks located in the Housing shop portion of the 2050 building, the air compressors are located on the concrete floor. One 100-gallon air compressor tank is located in the mezzanine of the CTN TV shop portion of the 2050 building, the air compressor tank is located on wooden skids upon the concrete floor. Surface staining was observed on the mezzanine compressor tank and the underlying surfaces. This surface staining is considered de minimus.

Other Petroleum Products

Atlas did not observe any evidence of the use, storage or disposal of other petroleum products in, on or at the Subject Property with the exception of one 5-gallon metal gas can in the Drain Commission shop portion of the 2050 building staged upon the concrete floor.

Railroad Spurs

Atlas did not observe evidence of railroad spurs in, on or at the Subject Property.

Pipeline Markers

Atlas did not observe evidence of pipeline markers in, on or at the Subject Property.



Polychlorinated Biphenyls (PCBs) Containing Electrical Equipment

Atlas observed one pad-mounted electrical transformer on the south side of the Subject Property 2000 building associated with the recently installed electric vehicle charging stations, one pole-mounted electrical transformer along the eastern Subject Property boundary, and two pole-mounted electrical transformers along the southern Subject Property boundary. The transformers appeared to be in good condition, with no evidence of leaks or staining. As the owner, DTE Energy, is responsible for testing these units for PCB-content, responding to any material releases associated with the transformers, and returning the condition of the real estate surrounding the transformers to their pre-release condition.

Fluorescent light ballasts were identified in fixtures throughout the Subject Property buildings. No evidence of leaking or staining around the outside of the light fixtures was observed by Atlas. Fluorescent light ballasts manufactured prior to 1979 may contain PCBs. Based on the construction dates of the Subject Property buildings in the 1940s and 1950s with subsequent renovations, it is not likely that the on-site fluorescent light ballasts contain PCBs. However, all light ballasts should be inspected in-house for PCB-content labeling during routine servicing and replacement, and ballasts that are either labeled as PCB-containing or units that are unlabeled should be disposed of properly in accordance with applicable regulations.

Hydraulic Equipment

Atlas did not observe hydraulic equipment in, on or at the Subject Property. However, patched concrete areas along the southwestern portion of the 2050 building suggest the former presence of a former below-grade hydraulic hoist. Furthermore, construction drawings dated 1963 for the City of Ann Arbor Utilities Department for the 2050 building depict two hydraulic hoists and a hydraulic lift mechanism within the southwest portion of the 2050 building.

The former presence of below-grade hydraulic hoists represents a *REC* since releases may have occurred which would not be evident.

Unidentified Substance Containers

Atlas did not observe evidence of unidentified substance containers in, on or at the Subject Property.

However, one 55-gallon drum was observed along the southeastern portion of the 2000 building and two 55-gallon drums were observed along the northwest portion of the 2050 building. The 55-gallon drums are associated with soil and/or purged groundwater from sampling events associated with the former UST tank farm and former heating oil UST. These drums are considered *de minimus*.

Nonhazardous Solid Waste

Three solid waste dumpsters were observed on the north side of the Subject Property 2050 building, serviced by Waste Management on a weekly basis. Atlas also observed two concrete containment structures, one metal recycling and one household refuse, and three cardboard recycling bins on the south side of the Subject Property parking lot, serviced by Ann Arbor Recycling during the University of Michigan student housing change season in August.

Wastewater

Atlas did not observe evidence of wastewater generated, treated or discharged (other than sanitary sewage from lavatories, janitor sinks and the kitchen) in, on or at the Subject Property.

Waste Pits, Ponds or Lagoons

Atlas did not observe evidence of waste pits, ponds or lagoons in, on or at the Subject Property.



Drains

Floor drains were observed in the restrooms and utility closets of the 2000 South Industrial Highway building. Trench floor drains were also observed in the shop areas of 2050 South Industrial Highway. No staining or odors were observed in association with the drains. One historic exterior trench drain was observed within the recently installed north-south running electric vehicle charging area. The floor drains are reportedly routed to the municipal, sanitary sewer and are not considered an environmental concern. The Subject Property occupant was unaware of the trench drains discharge.

Sumps/Ejectors

Atlas did not observe evidence of sumps/ejectors in, on or at the Subject Property.

Septic Systems

Atlas did not observe evidence of a septic system in, on or at the Subject Property.

Stormwater Management System

Stormwater from the Subject Property flows over building rooftops, paved parking lots, roadways and landscaped areas, and travels into catch basins located on the Subject Property and the adjacent roadway which discharge into the municipal stormwater system or water systems. The Subject Property is a mix of landscaped areas and developed land with covered areas consisting of building footprints and parking lots. The observed vegetation did not exhibit signs of biological stress. No significant staining from parked cars, strong odors or stressed vegetation was observed.

Wells

Atlas did not observe any potable water wells in, on or at the Subject Property. Seven groundwater monitoring wells were observed within the Subject Property. Refer to Section 5.3 for a discussion of the monitoring of prior known historical USTs of the Subject Property.

Other Condition, Feature or Operation

No apparent olfactory indications of strong, pungent or noxious odors were observed within the interior or exterior portions of the Subject Property, with the exception of a petroleum odor noted within the exterior northern entrance area of the building addressed as 2050 South Industrial Highway. No apparent visual indications of the presence of areas of significantly stained soil or pavement were observed in this area. Based on the historical presence of USTs, orphaned UST, and lack of pertinent supporting UST documentation associated with the on-site USTs, the potential exists for this area to contain an abandoned UST and is considered to be an REC.



7.0 SUBSURFACE VAPOR MIGRATION

Atlas conducted a Tier 1 vapor encroachment screen (VES) in accordance with ASTM E2600-15 *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions* for potential vapor encroachment conditions (VECs). A VEC is the presence or likely presence of chemicals of concern (COC) vapors in the vadose zone of the Subject Property caused by the release of vapors from contaminated soil or groundwater either on or near the Subject Property. A Tier 2 Non-Invasive Data Collection Screen was performed if prior assessment reports or regulatory documents were readily available.

Atlas considered the nature and extent of on-site and nearby sources of potential subsurface vapor migration by evaluating the current and historical usage of the Subject Property, the construction type and history, the physical setting, and the potential sources of subsurface vapor migration through the review of regulatory agency database information and/or prior reports to identify contaminated properties.

COC include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), volatile inorganic analytes and petroleum hydrocarbons, in most circumstances. Certain metals and radionuclides can represent VECs based on the known volatility of the constituents, but are uncommon. The vadose zone is the zone between the land surface and the water table within which moisture content is less than saturation (except in the capillary fringe) and pressure is less than atmospheric. Conditions may exist where there could be no vadose zone, such as the case of a building foundation sitting below the water table. In this case, it may be possible for COC vapors to adversely impact the indoor air without migrating through a vadose zone.

The default area of concern (AOC) is the approximate minimum search distance measured from the Subject Property boundary to a contaminated property with known or suspected COC contamination of soil and/or groundwater. If COC and/or petroleum hydrocarbon COC are used or stored on the Subject Property, or there is an institutional control recorded on the Subject Property for these COC, then the Subject Property is included in the default AOC.

The default AOC was adjusted accordingly based on review of groundwater flow direction, subsurface characteristics, surficial features, man-made features, known release information, and local knowledge. When groundwater flow direction can be estimated or determined, the crossgradient or downgradient radius distances can be significantly reduced.

The adjusted AOC are defined as the following distances from the Subject Property boundary:

Tier 1 Screening	Petroleum COC AOC Distance (LNAPL)	Petroleum COC AOC Distance (Non-LNAPL)	Non-Petroleum COC AOC Distance
Up-Gradient	528 feet	528 feet	1,760 feet
Cross-Gradient	165 feet	95 feet	365 feet
Down-Gradient	100 feet	30 feet	100 feet

When data on soil, groundwater, or soil gas contamination on properties within the AOC was available through on-line regulatory documents, (or at the regulatory agency office) a Tier 2 Screening was performed by evaluating whether contamination from these contaminated properties within the adjusted AOC falls within the critical distance of the Subject Property. The critical distance (CD) represents an estimate of the linear distance COC vapors volatilized from contaminated groundwater and/or soil might migrate in the vadose zone to the Subject Property based on industry protocols and available local records. The CD is the linear distance in any direction between the nearest edge of a contaminated plume and the nearest Subject Property boundary.



The Tier 2 CD are defined as the following distances from the Subject Property boundary.

Tier 2 Screening CD	Petroleum COC AOC Distance (LNAPL)	Petroleum COC AOC Distance (Non-LNAPL)	Non-Petroleum COC AOC Distance
Up-Gradient	100 feet	30 feet	100 feet
Cross-Gradient	100 feet	30 feet	100 feet
Down-Gradient	100 feet	30 feet	100 feet

Atlas reviewed potential sources of COC from current and historical Subject Property operations, and known or suspected releases in the surrounding area, using Tier 1 and, if warranted, Tier 2 approaches. The following is a summary of the VES conclusions:

Based on the identification of the *recognized environmental conditions* at the Subject Property, the potential for vapor intrusion should be considered.

Atlas reviewed reported releases within the area of concern and critical distance of the Subject Property. A BEA site was identified on the west adjacent property within the critical distance. Based on the identified *recognized environmental conditions* and results of previous soil/groundwater sampling in proximity to the Subject Property, the potential for vapor migration should be considered.

As discussed in Section 5.3 and 5.4.1, detection of various volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PNAs) was reported on the Subject Property and VOCs, PNAs, and metal contaminated soil and/or groundwater was reported on the west adjacent property. Based on the nature of contamination and last Phase II subsurface investigation conducted at the west adjacent property in 2018, the potential for a VEC does exist. No additional VECs were identified in relation to the Subject Property. See Section 5.4.1 for further discussion of adjacent or nearby properties and their potential for impact to the Subject Property.



8.0 INTERVIEWS

The following persons were interviewed to obtain information regarding environmental conditions in connection with the Subject Property.

INTERVIEW SUMMARY					
Role	Name	Title/Company	Type	# Attempts	Response?
Owner/Key Site Manager	Mr. Brian Steglitz	Owner; Interim Public Services Manager & water Treatment Plant Manager	Email	Two	No
Site Occupant	Mr. Tim Olivier	Occupant; Ann Arbor Affordable Housing Corporation	In Person	One	Yes
Site Occupant	Mr. Matthew Kulhanek	Occupant; Ann Arbor Fleet & Facilities Manager	Email	One	Yes
Local Health Dept.	Representative	Washtenaw County Health Department	Email	Two	No
Local Municipal Office	Project Boards and Commissions Coordinator, Sarah Alanis	Ann Arbor Municipal/Clerk Offices	Email	One	Yes
Michigan Department of Licensing and Regulatory Affairs (LARA)	Online FOIA website	FOIA Coordinator	Online	One	Yes
Michigan Department of Environment, Great Lakes and Energy (EGLE)	Online FOIA website	FOIA Coordinator	Online	One	Yes

Pertinent information from the interviews is discussed in applicable sections of this report.



9.0 ADDITIONAL SERVICES

The following additional services beyond the scope of ASTM E1527-13 were included in the scope of work for this ESA and are discussed further below.

Wetlands Document Review

Atlas consulted the U.S. Fish and Wildlife service on-line wetland mapper database and no wetlands were identified on the Subject Property or adjacent properties. A copy of the wetland map is included in Appendix L.

Flood Plain Document Review

According to the Federal Emergency Management Agency (FEMA) flood plain map, Map Number 26161C0263EG, dated April 3, 2012, the Subject Property is located in an area defined as "area of minimal flood hazard."

Mold Screen

A limited screen survey for readily observable mold and conditions conducive to mold growth was conducted on the Subject Property. Atlas did not observe any evidence of suspect mold growth during the reconnaissance, nor was any instance of historical mold growth or moisture intrusion disclosed.

Visual Observation of Suspect ACM

Atlas observed the following suspect ACMs on the Subject Property:

- Ceramic or resilient flooring and mastic
- Drywall and associated joint compound
- Plaster
- Cove base with associated mastic
- Roofing materials

All suspect ACMs identified at the property were observed in good condition, except an area of water damaged plaster ceiling in the 2000 building furnace room. The on-site presence of the suspect ACMs should not present a significant health hazard to property occupants, as long as their respective conditions do not deteriorate substantially. Nevertheless, federal and state laws require all ACMs that are likely to be disturbed or impacted by renovation or demolition activities to be removed prior to initiating any renovation or demolition activities that are likely to impact the ACMs. Therefore, Atlas recommends that bulk samples collected in accordance with the NESHAP (National Emission Standard for Hazardous Air Pollutants) requirements from the suspect ACMs listed above before disturbing these materials for purposes of renovation or demolition. Additionally, an Asbestos Operations & Maintenance (O&M) Plan is recommended to manage the suspect materials onsite.

A suspect ACM that has not been identified in this report might be located within walls, ceiling cavities, and/or in other non-accessible areas of the subject building. Precaution should be used in relation to any subsequently observed suspect ACM that may be present within walls, ceiling cavities, and/or other non-accessible areas of the subject building until the appropriate sampling and analysis has established the sampled material's asbestos content.

Radon Document Review

Radon is a naturally occurring colorless, odorless gas that is a by-product of the decay of thorium or uranium when present in indigenous bedrock, soil or, in rare cases, well water. The EPA guidance action level for annual residential exposure to radon is 4.0 picoCuries per liter of air (pCi/L). Radon testing is not a regulatory



requirement for private owners of commercial real estate, but comparing testing results to the guidance action level is commonly done to suggest whether or not further action to test or limit radon exposure at a building may be prudent.

According to the EPA Radon Zone Map for Washtenaw County, the subject property is located in Zone 1, which indicates a predicted average indoor radon screening level > 4 pCi/L. Specific published information from the federal database compiled by EDR for Washtenaw County showed that 30 percent of 10 indoor test results for the basement area was below the referenced USEPA Standard of 4.0 pCi/L. The average activity measured was 8.500 pCi/L for the basement area.

Based on the commercial/industrial usage of the Subject Property improvements with no basement, no additional investigation is recommended at this time.

Visual Observation of Suspect Lead-Based Paint (LBP)

The lead-based paint survey was not performed during this investigation since it was beyond the purview of the scope of work. Atlas observed the painted surfaces to be in good condition.

It should be noted, The Subject Property is developed with a 4.2 million gallon reservoir constructed in 1967. Based on the age of the reservoir the potential exists for lead-based paint to have been utilized on the structure. The structure was reportedly sandblasted and repainted in 1994. The potential exists for elevated levels of lead to be present in the soils at the base of the reservoir and is considered to be an REC.

Lead in Drinking Water Data Review

Atlas confirmed through review of the most recently published City of Ann Arbor Drinking Water Quality Report from 2020 provided on the City of Ann Arbor website, that the municipally-supplied water meets drinking water standards, including those for lead. Lead in drinking water testing was not conducted for this ESA. Documentation is included in Appendix L.

Other Additional Service

A description of the utilities that are provided to the Subject Property is presented below, along with their respective providers and the most recent dates of connection to the subject property (if known).

UTILITY	PROVIDER	CONNECTION DATE	INFORMATION SOURCE
Natural gas	DTE	N/A	Not applicable
Electric	DTE	N/A	Not applicable
Domestic water	City of Ann Arbor	N/A	Not applicable
Sanitary sewer	City of Ann Arbor	N/A	Not applicable
Storm sewer	City of Ann Arbor	N/A	Not applicable

There were no water wells or septic systems identified for the current subject property improvements. Atlas’s research did not indicate any environmental concerns associated with the utilities at the Subject Property. Given the provided documentation of the Subject Property, the Subject Property was not deemed possible for an onsite septic system in 1955 and is considered to be of low potential environmental concern.

The storm water that falls upon the improved parts of the Subject Property is directed by Subject Property surface grade to catch basins located in the parking lot and adjoining roadways.

Atlas notes data failure regarding the former fuel sources for heating all the historical buildings onsite, addressed as 2000 and 2050 South Industrial Highway. Based on the age of the structures, there is the potential for historical heating oil storage/usage at the property. Furthermore, as discussed in Section 5.3, a former 1,000-gallon heating oil UST was removed on June 10 and 11, 2021 associated with the main office structure of the Subject Property. Atlas did not observe any evidence of any additional former USTs



or evidence of a material release at the Subject Property during the recent Subject Property reconnaissance. However, further evaluation of the possible former usage of fuel oil at the Subject Property is recommended at this time.



10.0 REFERENCES

ASTM International, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E1527-13. November 2013.

ASTM International, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, ASTM Designation E2600-15. December 2015.

Ann Arbor Zoning Map, <https://www.a2gov.org/departments/planning/zoning/Pages/default.aspx>

Environmental Data Resources, Inc., EDR Radius Map Report, February 22, 2022; The EDR Aerial Photo Decade Package, February 22, 2022; The EDR City Directory Image Report, February 27, 2022; and Certified Sanborn Map Report, February 22, 2022

Farrand, W.R. and Bell, D.L., *Quaternary Geology of Southern Michigan*, 1982

FEMA, <https://msc.fema.gov/portal/search#searchresultsanchor>

Washtenaw County GIS, <https://gisappsecure.ewashtenaw.org/mapwashtenaw/>

Historic Aerials by Netroline, <https://www.historicaerials.com/viewer>, topo maps for the years 1906, 1920, 1944, 1951, 1954, 1967, 1974, 1978, 1980, 1984, 1989, 2014, 2017

Michigan Department of Environmental Quality, GeoWebFace, <http://www.deq.state.mi.us/GeoWebFace>

MI Public Service Commission, Utility Provider Search, <https://utilitysearch.apps.lara.state.mi.us/search>

State of Michigan Department of Natural Resources, *Bedrock Geology of Michigan*, 1987

State of Michigan Department of Environment, Great Lakes and Energy (EGLE), Waste Data System

Topoview, USGS Topographic Map, Ann Arbor East, Michigan Quadrangle, dated 1965, photorevised 1983

U.S.D.A. Web Soil Survey <http://websoilsurvey.nrcs.usda.gov/app>

USFWS on-line Wetland Mapper: <http://www.fws.gov/wetlands/data/Mapper.html>



11.0 TERMS & ACRONYMS

The following provides definitions and descriptions of key terms and acronyms that may be used in this report. Italics indicate terms that are defined by ASTM Standard Practice E1527-13. The Standard Practice should be referenced for further detail (such as the precise wording), related definitions or additional explanation regarding the meaning of terms.

recognized environmental condition(s) (REC) - 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.

material threat - a physically observable or *obvious* threat which is reasonably likely to lead to a release that, in the opinion of the *environmental professional* (EP), is threatening and might result in impact to public health or the environment.

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 the appropriate governmental agencies. Conditions determined to be *de minimis* are not RECs nor controlled recognized environmental conditions.

historical recognized environmental condition (HREC) - 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 property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release an HREC, the EP must determine whether the past release is a REC at the time the assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a REC at the time the Phase I ESA is conducted, the condition will be reported as a REC.

controlled recognized environmental condition (CREC) - 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 limitation, institutional controls, or engineering controls).

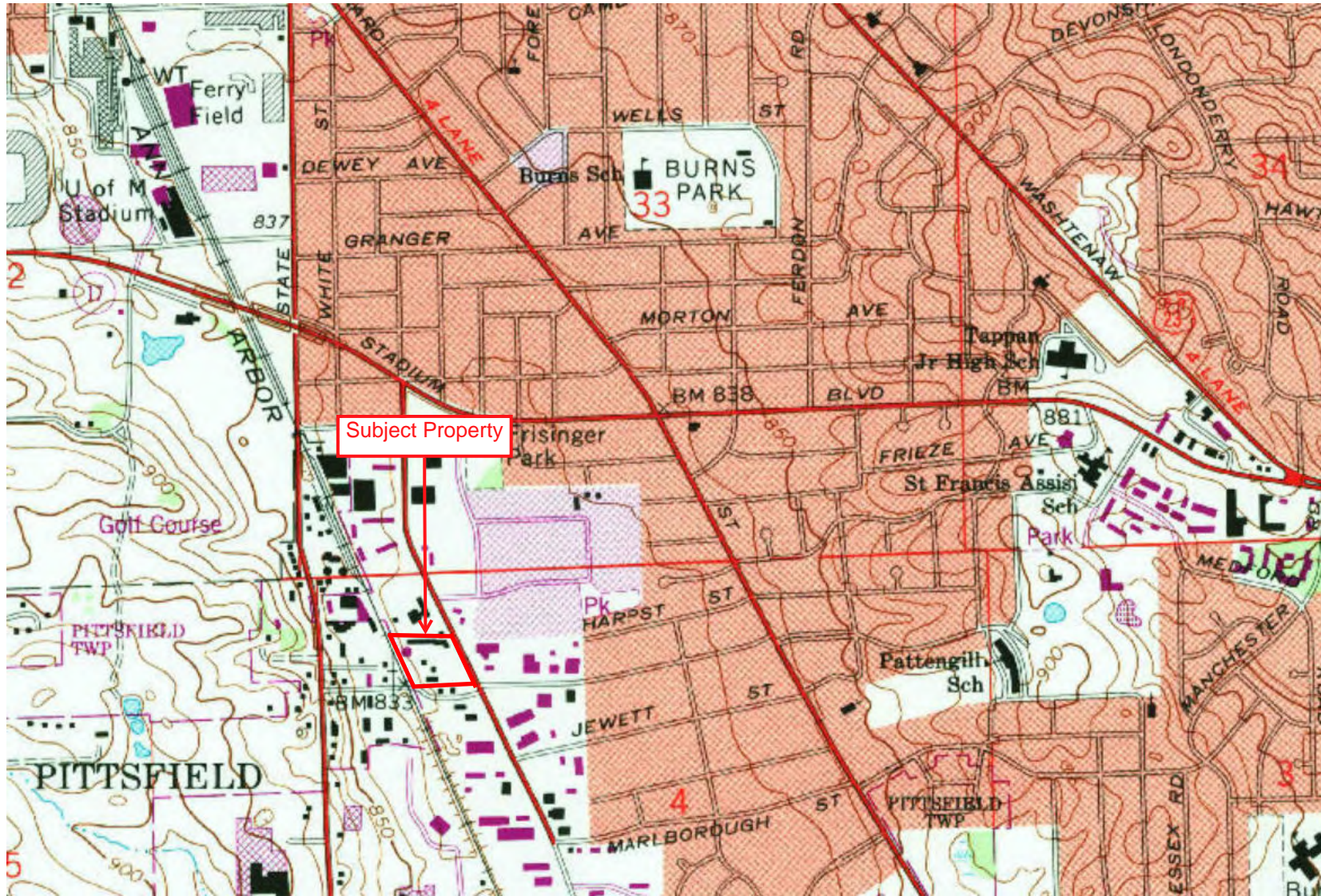
migrate/migration - refers to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.

business environmental risk (BER) - a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Evaluation of business environmental risk issues may involve addressing one or more non-ASTM scope considerations.

Subject Property – a lot or assemblage of lots that comprise a parcel of commercial real estate as described in Section 1.1 that is the subject of this ESA report.



APPENDIX A
SITE VICINITY MAP



Source: USGS Topographic Map 7.5 Minute Ann Arbor East, Michigan Quadrangle dated 1965, photorevised 1983



Subject Vicinity Map
Industrial Property
2000 South Industrial Highway
Ann Arbor, Michigan

PROJECT NO.: 188DD22012

DRAWN BY: AJT





APPENDIX B
SITE PLAN

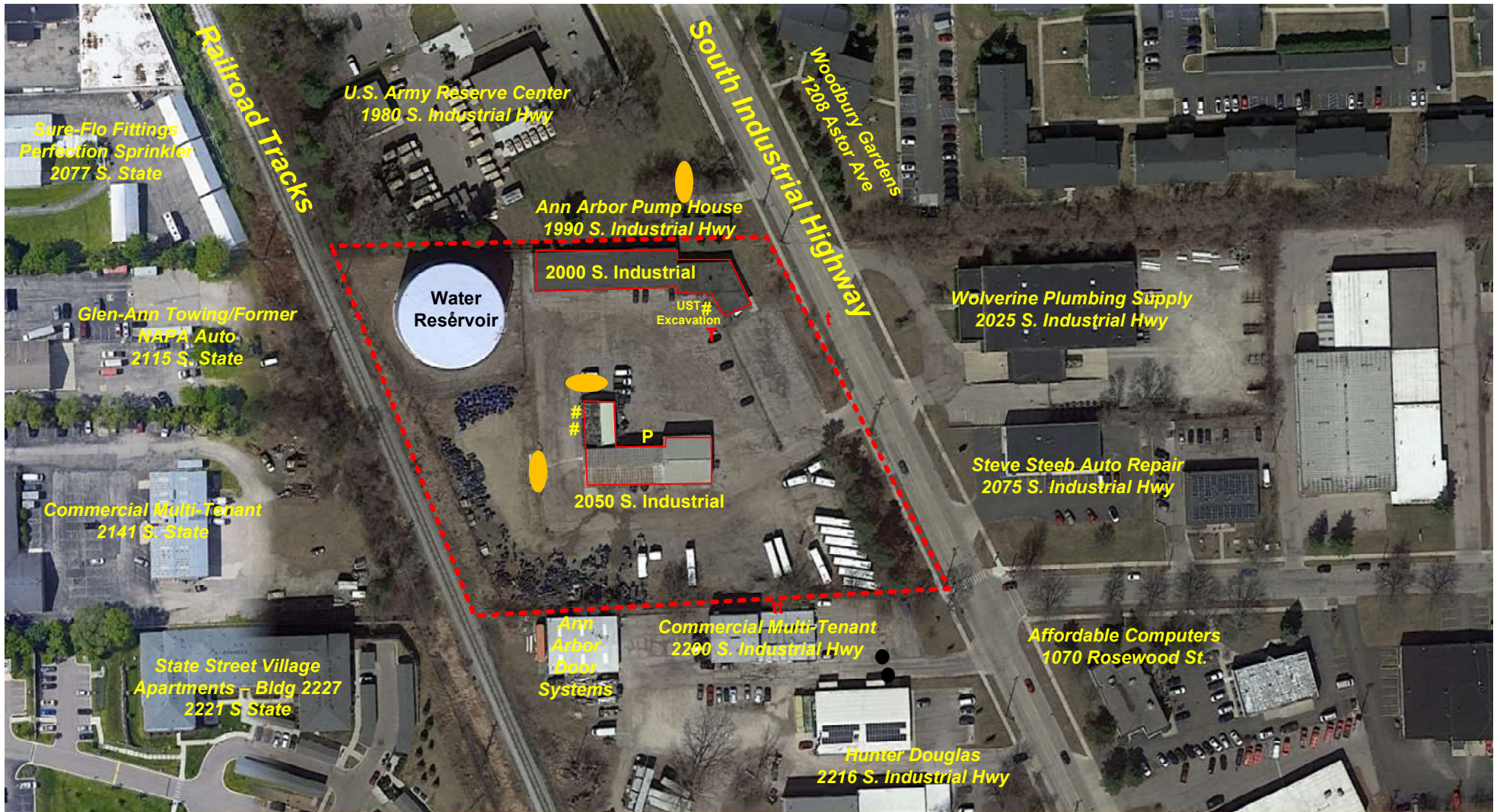
LEGEND:

- - - - = Subject Property Boundary
- = Subject Property Building

- T** = Pad-mounted Transformer
- t** = Pole-mounted Transformer

- = Aboveground Storage Tank
- #** = 55-Gallon Drum

- P** = Petroleum Odor Smell



Subject Property Plan

**Industrial Property
 2000 South Industrial Highway
 Ann Arbor, Michigan**

PROJECT NO.: 188DD22012

DRAWN BY: AJT





APPENDIX C
SITE PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 1: View of the 2000 South Industrial Highway subject property, facing northwest.



Photo 2: View of the eastern portion of the 2000 South Industrial Highway subject property building, facing north. Note the disturbed soil/asphalt parking lot for drainage.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 3: View of a pad-mounted electrical transformer and trench drain located within the northeastern parking lot portion of the 2000 South Industrial Highway subject property, facing north.



Photo 4: View of the former heating oil UST excavation, groundwater monitoring wells, and 55-gallon drum located within the northeastern parking lot portion of the 2000 South Industrial Highway subject property, facing north.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 5: View of the southern portion of the 2000 South Industrial Highway subject property building, facing east. Note the secure unassessed furniture warehouse space east of the open storage area.



Photo 6: View of the western portion of the 2000 South Industrial Highway subject property building, facing northwest.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 7: View of the 2000 South Industrial Highway subject property building conference/break room.



Photo 8: View of the 2000 South Industrial Highway subject property building restroom with floor drain.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 9: View of the 2000 South Industrial Highway subject property building hot water heater closet with floor drain.



Photo 10: View of the 2000 South Industrial Highway subject property building mechanical room with potential floor access point of the former heating oil UST.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 11: View of the office area within the 2000 South Industrial Highway subject property building.



Photo 12: View of the northern portion of the 2050 South Industrial Highway subject property building, facing southwest.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 13: View of the northern entrance of the 2050 South Industrial Highway subject property building, facing southeast. Note the stormwater catch basin and area of petroleum odor at entry door.



Photo 14: View of the general refuse and recycling dumpsters of the subject property, facing east. Note the 15,000-gallon diesel fuel AST at right.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 15: View of the monitoring well associated with the 15,000-gallon diesel fuel AST.



Photo 16: View of 15,000-gallon diesel fuel AST, facing east. Note the staining present at the dispenser.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 17: View of dispenser staining associated with the 15,000-gallon diesel AST.



Photo 18: View of 15,000-gallon gasoline AST, facing southwest.



Photo 19: View of surface staining/sheening near the base of the dispenser of the 15,000-gallon diesel fuel AST.



Photo 20: View of the housing commission office area within the 2050 South Industrial Highway subject property building.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 21: View of the housing commission warehouse space within the 2050 South Industrial Highway subject property building. Note the stored paint containers, air compressors, and trench drain.



Photo 22: View of the drain commission warehouse area within the 2050 South Industrial Highway subject property building.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 23: View of trench drain within the drain commission warehouse space within the 2050 South Industrial Highway subject property building.



Photo 24: View of flammable storage cabinet within the drain commission warehouse space within the 2050 South Industrial Highway subject property building.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 25: View of CTN TV warehouse space within the 2050 South Industrial Highway subject property building.



Photo 26: View of janitor sink within the CTN TV commission warehouse space within the 2050 South Industrial Highway subject property building.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 27: View of trench drain and floor patching within the CTN TV warehouse space within the 2050 South Industrial Highway subject property building.



Photo 28: View of diesel fuel dispenser within the CTN TV warehouse space within the 2050 South Industrial Highway subject property building.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 29: View of air compressor within the CTN TV mezzanine warehouse space within the 2050 South Industrial Highway subject property building.



Photo 30: View of water department warehouse space within the 2050 South Industrial Highway subject property building. Note the raised floor at rear.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 31: View of the Huron river Watershed Council warehouse space within the 2050 South Industrial Highway subject property building.



Photo 32: View of the secure unassessed Fire Department evidence room warehouse space within the 2050 South Industrial Highway subject property building at left.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 33: View of the western portion of the subject property, recycling containers followed by water tank, facing north.



Photo 34: View of the southern portion of the subject property, drain commission storage followed by recycling containers, facing east.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 35: View of the southern portion of the subject property, flooded drain commission storage, facing south.



Photo 36: View of the southern portion of the subject property, drain commission storage and recycling, facing south.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 37: View of the southern portion of the subject property, drain commission storage stockpiles with debris, facing west.



Photo 38: View of the southeastern portion of the subject property, former glass refuse bins concrete pad, facing northwest.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 39: View of northern adjacent property U.S. Army Reserve Center (1980 S. Industrial).



Photo 40: View of northern adjoining property Pump House (1990 S. Industrial).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 41: View of northeastern adjacent property Woodbury Gardens Apartments (1208 Astor).



Photo 42: View of eastern adjoining property Wolverine Plumbing Supply (2025 S. Industrial).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 43: View of eastern adjacent property Steve Steeb Auto repair (2075 S. Industrial).



Photo 44: View of southeastern adjoining property Affordable Computers (1070 Rosewood).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 45: View of southern adjacent property Multi-Tenant Commercial (2200 S. Industrial).



Photo 46: View of southern adjacent property Multi-Tenant Commercial – Ann Arbor Door Systems (2200 S. Industrial).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 47: View of western adjacent property railroad tracks.



Photo 48: View of western adjoining property across railroad tracks Sure-Flo Fittings/Perfection Sprinklers (2077 S. State).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 49: View of western adjoining property across railroad tracks Glen-Ann Towing/former NAPA Auto Center (2115 S. State).



Photo 50: View of western adjoining property across railroad tracks Multi-Tenant Commercial (2141-2179 S. State).

PHASE I ENVIRONMENTAL SITE ASSESSMENT
2000 South Industrial Highway
Ann Arbor, Michigan



Photo 51: View of western adjoining property across railroad tracks State Street Village Apartments – Bldg #2227 (2221 S. State).



APPENDIX D
USER PROVIDED DOCUMENTATION



46555Humboldt Drive, Suite 100
Novi, MI 48377
248.669.5140 | oneatlas.com

ATTACHMENT CLIENT/USER QUESTIONNAIRE

Per ASTM Standard Practice E 1527-13, Section 6, User Responsibilities, the User of an ESA has specific obligations for performing tasks during the ESA that will help identify the possibility of *recognized environmental conditions* in connection with the subject property. Failure by the User to fully comply with the requirements may result in a *data gap* being identified in the report and may impact their ability to use the report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). These requirements include completing this questionnaire and conducting an environmental lien search. If this questionnaire or the results of the environmental lien search are not received by ATLAS prior to issuance of the draft report, then ATLAS assumes that the Client/User does not have any information or actual knowledge pursuant to ASTM Standard Practice E 1527-13, Section 6, User Responsibilities. ATLAS makes no representations or warranties regarding a Client/User's qualification for protection under any federal, state or local laws, rules or regulations.

Complete the following and return via email or fax to:

Project Manager: Ann O'Brien
Email: ann.obrien@oneatlas.com
Fax Number: 248.669.5147

If other parties are intending to be the Users of the Phase I ESA report, please forward a copy of this questionnaire for them to complete and return to ATLAS.

Subject Property Location: 2000 S. Industrial Hwy, Ann Arbor, MI

Please provide the following information (if available) per the requirements of ASTM E 1527-13.

1. Environmental cleanup liens that are filed or recorded against the subject property (40 CFR 312.25)

Are you aware of any environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state, or local law? Yes or No If yes, please provide a description of the lien(s).

2. Activity and land use limitations (AULs) that are in place on the subject property or that have been filed or recorded in a registry (40 CFR 312.26)

Are you aware of any AULs, 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?

Yes or No If yes, please provide.



3. Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protections (40 CFR 312.28)

As the user of this ESA 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?

Yes or No If yes, please explain.

4. Relationship of the purchase price to the fair market value of the subject property if it were not contaminated (40 CFR 312.29)

a. Does the purchase price being paid for this subject property reasonably reflect the fair market value of the subject property? Yes or No

b. If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

Yes or No If yes, please explain.

Purchase price has not been determined

5. Commonly known or reasonably ascertainable information about the subject property (40 CFR 312.30)

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? Yes or No If yes, please state.

Limited knowledge over the last decade (Matt Kulhanek)

b. Do you know of specific chemicals that are present or once were present at the subject property?

Yes or No If yes, please state.

c. Do you know of spills or other chemical releases that have taken place at the subject property?

Yes or No If yes, please state. (Matt Kulhanek) C-1594-92 & C-1524-92 - both closed.

C-0126-20 - Gasoline and Diesel fuel in the dispenser area only. Closed to regulatory criteria.

Part 201 Release of heating oil from an orphan tank discovered 4/14/21. Ongoing activity.



6. Do you know of any environmental cleanups that have taken place at the subject property?

Yes or No If yes, please state. (Matt Kulhanek)

C-0126-20 resulted in limited removal of contaminated soils.

7. The degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of this ESA, based on your knowledge and experience related to the subject property are there any obvious indicators that point to the presence or likely presence of contamination at the subject property?

Yes or No If yes, please explain.

previous use as City Public Works facility

8. Please state the reason for this Phase I Environmental Site Assessment.

Current user (Ann Arbor Housing Commission staff) occasionally smells a chemical seeping from ground at entrance to Maintenance Facility. AAHC is also a potential buyer of the property from the City of Ann Arbor Water Fund

9. Will you be using a lending institution to finance the purchase of this property?

Yes or No If yes, please provide the name and additional requirements, if any.

10. List the names of the entities requiring reliance in the Phase I Environmental Site Assessment report.

City of Ann Arbor - Water Fund, Ann Arbor Housing Commission, Ann Arbor Housing Development Corporation, Michigan State Housing Development Authority

11. What is the intended future use of the subject property?

Residential, Offices, Maintenance Facility



12. Provide the name and contact information for the owner/operator of the subject property. ATLAS will request that the owner/operator complete a questionnaire and will contact the owner/operator to schedule a subject property inspection, unless otherwise specified by the User.


Brian Steglitz, Interim Public Services Area Administrator

734-794-6000 ext. 43905 BSteglitz@a2gov.org

This questionnaire was completed by:

Name Jennifer Hall,

Title Executive Director

Signature 

Company of User Ann Arbor Housing Commission

Address of User 2000 S. Industrial Hwy

Date 3/8/2022

Also responses from Matt Kulhanek, City of Ann Arbor Fleet & Facility Manager

ABSOLUTE TITLE, INC.

2875 W. Liberty Rd.
Ann Arbor, MI 48103
ph. (734) 662-1050/fax (734) 662-3608

INVOICE

Date: June 19, 2019

File No.: 86011

To: **Ann Arbor Housing Commission**

Attn: Jennifer Hall

Re: **The City of Ann Arbor**
2000 South Industrial Highway

Title Search

\$175.00

INVOICE

Date: June 19, 2019

File No.: 86011

To: **Ann Arbor Housing Commission**

Attn: Jennifer Hall

Re: **The City of Ann Arbor**
2000 South Industrial Highway

Title Search

\$175.00

**TITLE SEARCH
ISSUED BY
ABSOLUTE TITLE, INC.**

File No.: **86011**

Address reference:
2000 South Industrial Highway
Ann Arbor, MI 48108

SCHEDULE A

1. Effective Date: May 31, 2019 at 5:00 P.M.
 2. Policy or Policies to be issued: Amount
2006 ALTA Owner's Policy NONE
- Proposed Insured:
NONE

3. The estate or interest in the land described or referred to in the Search and covered herein is FEE SIMPLE and is at the effective date hereof vested in:

The City of Ann Arbor, a Michigan municipal corporation

4. The land referred to in this Search is situated in the City of Ann Arbor, Washtenaw County, Michigan, and is described as follows:

Commencing at the Northwest corner of Section 4, Town 3 South, Range 6 East, Pittsfield Township, Washtenaw County, Michigan; thence along the West line of said Section, Southerly 528.66 feet; thence North 87°55' East 533.29 feet for a Place of Beginning; thence continuing North 87°55' East 442.5 feet to the West line of the Industrial Highway; thence along said West line South 25°45' East 410.32 feet; thence South 87°54' West 159.81 feet; thence South 23°27'30" East 12.20 feet; thence South 87°54' West 300.0 feet to the East line of the Ann Arbor Railroad right of way; thence along said East line North 23°27'30" West 416.26 feet to the Place of Beginning, being Lot 21, Frisinger Industrial Subdivision, as recorded in Liber 15 of Plats, Pages 25 and 26, Washtenaw County Records, and a part of the Northwest ¼ of said Section 4. ✓

Due to the limited nature of the search, liability for inaccuracies or errors in the search is limited to refund of the search fee actually paid.

Absolute Title, Inc.

By: _____
Authorized Signatory
Phone 662-1050
Fax 662-3608



SCHEDULE B - SECTION I
REQUIREMENTS

The following are the requirements to be complied with:

1. **Record deed from The City of Ann Arbor, a Michigan municipal corporation to party to be insured.**
2. **Submit resolution of Ann Arbor City Council authorizing the execution of said deed.**
3. 2018 winter taxes exempt.
2018 summer taxes exempt.
All previous years taxes paid.
Special Assessments: None.
Tax I.D. No. 09-12-04-200-013
Requirements: None.

SCHEDULE B - SECTION II

EXCEPTIONS

Schedule B of the policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company.

1. Standard exceptions set forth on the inside back cover.
2. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed Insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.
3. Liens for any tax and/or assessment which become due and payable on or after the effective date of this Commitment.
4. Easement for public utilities and county drain as shown on the recorded plat.
5. Release of Right of Way for drain, as recorded in Liber 596, Page 618, Washtenaw County Records, and modified by instrument recorded in Liber 860, Page 304, Washtenaw County Records.
6. Corrective Action Notice from Michigan Department of Environmental Quality Underground Storage Tank Division, as recorded in Liber 3436, Page 811, Washtenaw County Records.



RELEASE OF RIGHT OF WAY

For and in consideration of prospective benefits to be derived by ¹ me by reason of the
Locating, establishing and constructing

of a certain Drain under the supervision of the County Drain Commissioner of the County of
Washtenaw and State of Michigan, as hereinafter described,

² I, Charles Pontney

of Pittsfield Township

do hereby convey and release to the said County of Washtenaw, the Right of Way
for a certain Drain, hereinafter more particularly designated and described, over and across the following
lands ³ owned by me, and situated in the Township

of Pittsfield County and State aforesaid, and more particularly described
as follows, to-wit: ⁴ A strip of land 66 ft wide on each side of the center
line of said drain across the following described land:

Beginning on the west line of Section 4, Town 3 South, Range 6 East,
8 chains and 1 link south of the northwest corner of said section;
thence east 30 chains and 97 links to the center of a ditch; thence
south 5 chains and 85½ links; thence west 30 chains and 97 links to
to the section line; thence north 5 chains and 85½ links to the place
of beginning, containing 18.13 acres of land more or less. Intending
to convey two certain tracts of land deeded to Stephen Adams by Mary
E. Foster by two certain deeds recorded in Liber 94, page 120 and Liber
102, page 73; excepting and reserving therefrom that part of said
land and premises now occupied by the Ann Arbor Railroad as its right
of way. This deed is also subject to the right of way acquired by
one Ernest J. Knowlton over a portion of said land as described in a
certain deed from Stephen Adams and wife to said Knowlton dated April
21st, 1885 and recorded in Liber 106, page 345.

The Right of Way hereby conveyed and released is for the sole and only purpose of
Locating, establishing and constructing

over and across said premises a certain Drain, petition for which in writing was made on the
4th day of June A. D. 19 23, by

City of Ann Arbor, Harry Schwab, John W. Herrst, Emma Herrst, Samuel
Schultz, Lola B. Schultz, Edwin H. Smith, Louis C. Andrews, Charles L.
Brooks, F. H. Gernaey, Eli A. Gallup, Alfred G. Gooch, E. R. Calkins, Wm.
Goodyear and others, and the necessity for which has been determined by the said County Drain

Commissioner in his order bearing date the 8th day of August
A. D. 19 25, in which said order the route and course of said drain is described as follows, to-wit: ⁵

PARCEL NO. 36

Commencing at a point on the west line of Packard Home Sites, 13.1 feet north of the south line of Rose wood Street, section 4, Pittsfield Township, Washtenaw County, Michigan;

thence N. 20°-39' E. 586.5 feet

to a point on the west line of Packard Home Sites, 16.0 feet north of Harps Street.

The portion of the center line of the drain described above, 586.5 feet is on the east line of the lands of Charles Bentley, which lands are described as follows:

Beginning on the west line of Section 4, Township 5 South, Range 6 East, 6 chains and 1 link south of the northwest corner of said section; thence east 30 chains and 97 links to the center of a ditch; thence south 5 chains and 88½ links; thence west 30 chains and 97 links to the section line; thence north 5 chains and 88½ links to the place of beginning, containing 18.13 acres more or less. Intending to convey two certain tracts of land devised to Stephen Adams by Mary E. Foster by two certain deeds recorded in Liber 94 page 120 and Liber 102 page 75; excepting and reserving therefrom that part of said land and premises now occupied by the Ann Arbor Railroad as its right-of-way. This deed is also subject to the right of way acquired by one Ernest J. Howlton over a portion of said land as described in a certain deed from Stephen Adams and wife to said Howlton dated April 21st, 1885 and recorded in Liber 106 page 345.

Number of Station	Distance from Ground to Grade at Center Line of Drain
233 + 30.76	16.0 feet
234 + 0	15.0 "
235 + 0	15.0 "
256 + 0	15.1 "
237 + 0	15.2 "
237 + 17.08	15.2 "

1. This portion of the drain is a covered section of 10" 6" circular monolithic reinforced concrete construction.

2. The center line of the drain is located 20 feet to the left of the survey line, which is marked on the ground with hub and guard stakes, wherever a change of direction occurs.

3. The width of right-of-way required for the construction of the drain across the above described parcel of land shall be 66 feet on each side of the center line of the drain.

This conveyance is based upon the above described line of route and shall be deemed to include the extreme width of said Drain as shown in the survey thereof, to which survey reference is hereby made for a more particular description, and includes a release of all claims to damages in any way arising from or incident to the opening and maintaining of said Drain across said premises, and also sufficient ground on either side of the center line of said Drain for the construction thereof and for the deposit of the excavations therefrom.

Witness, *My* hand and seal this *3rd* day of *Nov* A. D. 192*6*

In Presence of
Blayton E Deabe } *Chas Pontney*
County Drain }
Commissioner }
SEAL SEAL SEAL

I hereby approve of the above Release of Right of Way on the Pittsfield Ann Arbor Drain according to the survey of the corrected minutes dated July 8, 1926.

Dated this *20* day of *July* A. D. 1926.

In Presence of
Blayton E Deabe
County Drain
Commissioner
Charles Pontney

Charles Pontney
Parcel No 27
D-6-(Laws 1923)

RELEASE OF RIGHT OF WAY

IN THE MATTER OF

Pittsfield Drain
Ann Arbor Drain
TO

PHS

Received for Record, this

A. D. 19

RECEIVED
FOR RECORD
MAY 15 9 05 AM '26
THOMAS A. FITZGERALD
REGISTER OF DEEDS
WASHINGTON COUNTY, MICH.

DOUBLEDAY BROTHERS AND COMPANY
KALAMAZOO, MICHIGAN

RELEASE OF RIGHT-OF-WAY

KNOW ALL MEN BY THESE PRESENTS: That the COUNTY OF WASHTENAW, a Michigan Municipal Corporation, quit claims to THE LEWIS & FRISINGER COMPANY, a Michigan Corporation, whose street number and post office address is 2000 South Industrial Highway, Ann Arbor, Michigan, the following described premises situated in the City of Ann Arbor, County of Washtenaw, and State of Michigan, to-wit:

The westerly 36 feet of the drain right-of-way acquired by Washtenaw County by Release of Right-of-Way dated November 3, 1921, and recorded May 15, 1952, in Liber 596 on Page 618, Washtenaw County Records, which original right-of-way is described as over:

Beginning on the west line of Section 4, Town 3 south, Range 6 east, 8 chains and 1 link south of the northwest corner of said section; thence east 30 chains and 97 links to the center of a ditch; thence south 5 chains and 85½ links; thence west 30 chains and 97 links to the section line; thence north 5 chains and 85½ links to the place of beginning, containing 18.13 acres of land more or less, Pittsfield Township, Washtenaw County, Michigan,

together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining for the sum of One Dollar and other valuable considerations;

Dated this 18th day of February, 1959.

Signed, Sealed and Delivered
in Presence of :

COUNTY OF WASHTENAW, A Michigan Municipal Corporation

Mary Jane Mitchell
Mary Jane Mitchell

BY: William I. Scheel
William I. Scheel
Chairman of the Board of Supervisors
of the County of Washtenaw

Ruth Walch
Ruth Walch

BY: Luella M. Smith
Luella M. Smith
Clerk of the Board of Supervisors of
the County of Washtenaw

STATE OF MICHIGAN)
) SS.
COUNTY OF WASHTENAW)

On this 18th day of February, 1959, before me personally appeared William I. Scheel and Luella M. Smith to me personally known, who being by

me sworn, did each for himself say that they are respectively the Chairman and Clerk of the Board of Supervisors of the County of Washtenaw, a Michigan Municipal Corporation named in and which executed the within instrument, and that said instrument was signed and sealed in behalf of said municipal corporation by authority of its Board of Supervisors; and said William I. Scheel and Luella M. Smith acknowledged said instrument to be the free act and deed of said municipal corporation.

Helen B. Miller

Helen B. Miller

Notary Public, Washtenaw County, Michigan

My commission expires: 1-24-60

RECEIVED
FOR RECORD

FEB 24 11 50 AM '59

CLERK OF SUPERVISORS
REGISTER OF DEEDS
WASHTENAW COUNTY, MICH

RECORDED
WASHTENAW COUNTY, MI

JUN 4 9 43 AM '97

PEGGY A. HAINES
COUNTY CLERK/REGISTER

CORRECTIVE ACTION NOTICE TO REGISTER OF DEEDS

DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - UNDERGROUND STORAGE TANK DIVISION

CORRECTIVE ACTION NOTICE TO REGISTER OF DEEDS

<p>Instructions: Use this form for the corrective action notice to be filed with the register of deeds. This form is needed when the corrective action plan is based upon a commercial or industrial Tier 1 table pursuant to Section 21310a(1), Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act (NREPA), Act No. 451 of the Public Acts of 1994, being Section 324.21310a(1) of the Michigan Compiled Laws Annotated. Submit a copy of the notice and proof of recording with the Closure Report (EQP3843) to the appropriate UST District Office listed on the back of the Closure Report Cover Sheet. Form must be completed in its entirety.</p>
<p>The owner/operator identified below has prepared a site assessment or corrective action plan requiring land use controls. The site assessment or corrective action plan was developed as a result of a release from an underground storage tank(s) and was prepared pursuant to the provision in Section 21310a(1) of NREPA. Regulated substances were discovered during the investigation and/or removal of underground storage tank(s) (USTs). This notice of corrective action is filed with the County Register of Deeds and covers the land commonly known as listed below and more fully described in Exhibit A, attached. (Attach a legal property description in exhibit A for the land where the institutional controls would apply and a map of the property).</p>
<p>Owner/Operator: <u>City of Ann Arbor, P.O. Box 8647, Ann Arbor, Michigan 48107</u></p> <p>Release discovered during <input type="checkbox"/> investigation or <input checked="" type="checkbox"/> removal. <small>2 removed in 1992</small></p> <p>Number of USTs <u>3</u> previously abandoned Type of USTs <u>Steel</u></p> <p>County where deed is registered: <u>Washtenaw</u></p> <p>Common description of land, township/city, county: <u>2000 South Industrial Highway, City of Ann Arbor, Washtenaw County</u></p>
<p>The land use that was the basis of corrective action at this site is as follows: <u>Commercial III restrictions: Utilization of ground water resources and underground utility/construction activities in localized area of impacting soils.</u></p> <p><i>Describe the land use restriction(s) commercial III or IV, or industrial that was/were the basis of the corrective action</i></p> <p>If there is a proposed change in the land use at any time in the future, that change may necessitate further evaluation of potential risks to the public health, safety, and welfare and to the environment. The Department of Environmental Quality shall be contacted regarding any proposed change in the land use, and the change may necessitate further evaluation of potential risks to the public health, safety, and welfare and the environment.</p>
<p>This notice is being filed by the property owner or with the expressed written permission of the property owner.</p> <p>The filing of this notice is consistent with the provisions of Section 21310a(1) of NREPA. <input type="checkbox"/> The corrective action plan cited above is maintained on file at _____</p> <p><input checked="" type="checkbox"/> A corrective action plan is not needed as the site meets a Tier 1 commercial/industrial lookup table.</p>

I hereby attest to the accuracy of the statements in this document and all attachments. I further certify that the language on this form has not been modified in any way.

City of Ann Arbor

Craig Hupy

Field Utilities
Superintendent

April 11, 1997

Owner or Operator's Signature

Date

Craig Hupy

Print Owner or Operator's Name

IN WITNESS WHEREOF, the said Owner of the above described property has caused the Institutional Control to be executed on the 11 day of April, 1997.

Homayoon Pirooz
Witness

Janine Mueller
Witness

Homayoon Pirooz, P.E.

Janine Mueller

Print Witness' Name

Print Witness' Name

State of Michigan County of Washtenaw

Subscribed and sworn to me before this 4th day of June, 1997 *Marylou Zimmermann*

Notary Public

MARYLOU ZIMMERMAN

Washtenaw County, Michigan

(Insert County)

Commission Expires: 10-15-98

My Commission Expires: 10-15-98

Drafted by: City of Ann Arbor-Engineering Div.

Company Name

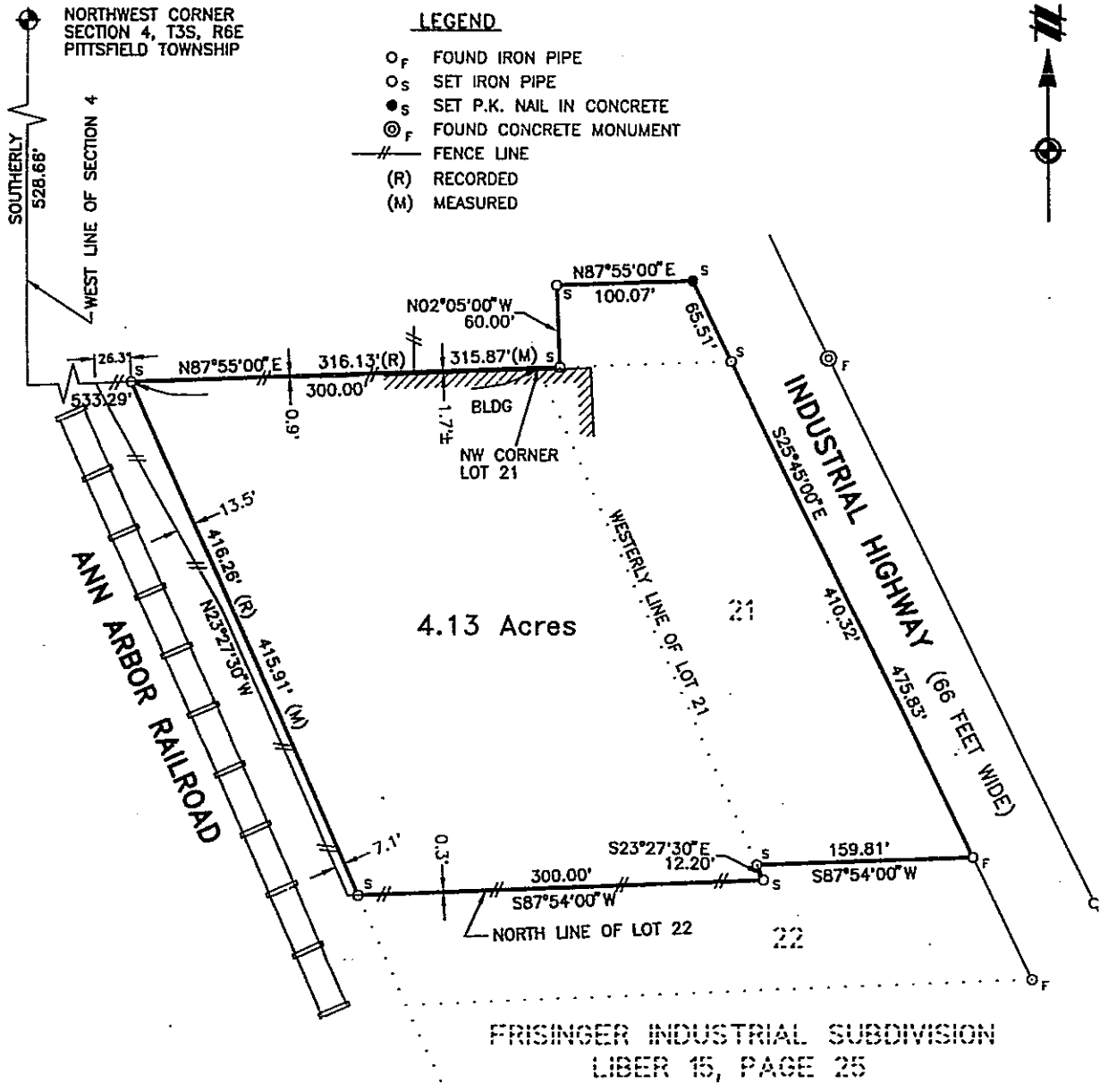
Janine Mueller

Drafters name

100 North Fifth Avenue

Company Address

Ann Arbor, Michigan 48107



LEGAL DESCRIPTION

Commencing at the Northwest corner of Section 4, T3S, R6E, Pittsfield Township, City of Ann Arbor, Washtenaw County, Michigan; thence Southerly 528.66 feet along the west line of said Section 4; thence N87°55'00"E 533.29 feet for a PLACE OF BEGINNING; thence continuing N87°55'00"E 300.00 feet to the Northwest corner of Lot 21 of Frisinger Industrial Subdivision, as recorded in Liber 15 of Plats, page 25, Washtenaw County Records, Washtenaw County, Michigan; thence continuing N87°55'00"E 15.87 feet along the north line of said Lot 21; thence N02°05'00"W 60.00 feet; thence N87°55'00"E 100.07 feet; thence S25°45'00"E 475.83 feet along the westerly right-of-way line of Industrial Highway to the Southeast corner of said lot 21; thence along the north line of Lot 22 of said Frisinger Industrial Subdivision the following three courses: S87°54'00"W 159.81 feet, S23°27'30"E 12.20 feet, and S87°54'00"W 300.00 feet; thence N23°27'30"W 415.91 feet along the easterly right-of-way line of the Ann Arbor Railroad to the Place of Beginning, being a part of the Northwest 1/4 of said Section 4, containing 4.13 acres of land, more or less, and being subject to easements and restrictions of record, if any.

BEARINGS ARE BASED UPON FRISINGER INDUSTRIAL SUBDIVISION

CLIENT WATER UTILITIES DEPT.		ATWELL-HICKS, INC. CIVIL ENGINEERING • SURVEYING • PLANNING ENVIRONMENTAL SERVICES 313-994-4000 • FAX NO. • 313-994-1599 ANN ARBOR, MICHIGAN	
SURVEY OF A 4.13 ACRE PARCEL OF LAND IN THE NW 1/4 OF		DATE: 5/23/97	
SECTION 4 TOWN 3 SOUTH, RANGE 6 EAST	PITTSFIELD TOWNSHIP WASHTENAW COUNTY		JOB: 42973 CAD 2973SU01
SCALE: 1 INCH = 100 FEET	0 50 100		DR. JSE CH. TDS
			BOOK 215V PG. 71
			SHEET 1 OF 1
			FILE NO. 536-168

APPRAISAL OF

2000 South Industrial Highway,
City of Ann Arbor,
Washtenaw County, Michigan 48108

As of September 11, 2019
For Ann Arbor Housing Commission

GERALD ALCOCK COMPANY LLC

Real Estate Counseling and Appraising
315 East Eisenhower Parkway, Suite 5
Ann Arbor, Michigan 48108
Telephone: (734) 994-0554

GERALD ALCOCK COMPANY, L.L.C.
Real Estate Counseling and Appraising

Principals
Julie M. Simpson
Marcel H. Vidovic, MAI
Michael T. Williams, MAI

Lorie D. Alcock
Susan B. Campbell, CPA
Stephen J. Simpson
Karen L. Paul
Glee R. Loman
David A. Williams, PGA
Joanne M. Stockman
Alex J. Groves, MAI
Robert F. Elder, PGA
Kristina Keift

Gerald V. Alcock, MAI
Founder, 1977

September 25, 2019

Ms. Jennifer Hall
Executive Director
Ann Arbor Housing Commission
2000 South Industrial Highway
Ann Arbor, Michigan 48104

Re: Appraisal of 2000 South Industrial Highway, Ann Arbor, Washtenaw
County, Michigan 48108

Dear Ms. Hall:

As contracted by engagement document, an appraisal of the above-referenced property has been completed, the findings of which are submitted in this report. The purpose of this appraisal is to express three current opinions of market value for the noted real estate, based upon development proposals associated with hypothetical condition, iterated in the eponymous subsection of this report. The title interest appraised is fee simple estate.

This appraisal cannot be completely understood without reading the "General Assumptions and Limitations of Appraisal" and "Extraordinary Assumptions" sections of this report. Any reader of this report is advised to thoroughly read and understand said sections before relying on any information, analysis or conclusion presented therein.

The appraisers prepared this report and the value estimates herein in compliance with the requirements of the Uniform Standards of Professional Appraisal Practice (USPAP). This is an Appraisal Report. The "Required Statements" section of this report offers descriptions of these terms.

315 East Eisenhower
Parkway, Suite 5
Ann Arbor, Michigan
48108

Telephone:
(734) 994-0554

Facsimile:
(734) 939-1100

email:
manager@geraldalcock.com

Web:
www.geraldalcock.com

September 25, 2019
Ms. Jennifer Hall
Executive Director
Ann Arbor Housing Commission
Page Two

It is the appraisers' opinion that the current market value of the appraisal property, based upon hypothetical condition associated with Scenario 1 assuming an R4B, Multiple-Family Dwelling District zoning designation and development proposal, pertaining to fee simple title interest, as of September 11, 2019, is:

One Million Four Hundred Thousand (\$1,400,000) Dollars

It is the appraisers' opinion that the current market value of the appraisal property, based upon hypothetical condition associated with Scenario 2, assuming an R4D, Multiple-Family Dwelling District zoning designation and development proposal, pertaining to fee simple title interest, as of September 11, 2019, is:

Two Million Two Hundred Ninety-Five Thousand (\$2,295,000) Dollars

It is the appraisers' opinion that the current market value of the appraisal property, based upon hypothetical condition associated with Scenario 3, assuming an O, Office District zoning designation and development proposal, pertaining to fee simple title interest, as of September 11, 2019, is:

Three Million Five Hundred Twenty-Five Thousand (\$3,525,000) Dollars

These value estimates are made subject to the “General Assumptions and Limitations of Appraisal” of this report and to the following “Hypothetical Condition and Extraordinary Assumptions to this Appraisal” as applicable.

Hypothetical Condition

1. At the direction of the client, the appraisal property is analyzed in accordance with three development proposals put forth within the body of the text and at exhibit B herein, hypothetically assuming R4B, R4D, Multiple-Family Dwelling or O, Office zoning district scenarios, presuming the property is vacant, excepting preservation of a water tower facility with assumed easement access; ready for development without environmental hazards; and, is not subject to any uncited adverse easements or deed restrictions. The water tower facility is presumed to have no contributing impact

September 25, 2019
Ms. Jennifer Hall
Executive Director
Ann Arbor Housing Commission
Page Three

other than as a view factor and occupation of physical tower area and assumed easement access, hypothesized to be reflected in the number of units proposed. The tower and presumed easement are assumed to be maintained by the City. Valuation predicated upon any other condition, could impact the value conclusions reported herein.

Extraordinary Assumptions

1. The appraisers have been provided with historical title work pertaining to varying configurations of property, of which the subject has been a part. The documentation includes an Atwell-Hicks, Inc. survey, dated May 23, 1997, which appears to include an area of land extending from the northwest border of the site, but appears to be excluded from current municipal mapping and legal description. The appraisers have not otherwise been provided with a legal description, building or site plans and have been directed by the client to make an exterior inspection from the street. They have relied upon a legal description, site descriptions and areas culled or deduced from municipal documents. It is an assumption of this report that gross and net site areas, descriptive detail and condition delineated herein roughly conform to actual (hypothetically vacant) conditions; if not, the value conclusions could be impacted; and
2. The appraisers have not been provided with professional soil boring analysis for the appraisal property. Valuation is predicated upon the assumption that the subject soils are suitable for commercial-type construction similar to that proposed or found on surrounding parcels. If such is not the case, the value conclusions could be impacted.

The use of this appraisal is to serve as an estimate of the market value of the property under valuation for the purpose of assisting the client with asset management and financial planning.

This appraisal has been prepared for our client, the Ann Arbor Housing Commission, the intended user of the report.

September 25, 2019
Ms. Jennifer Hall
Executive Director
Ann Arbor Housing Commission
Page Four

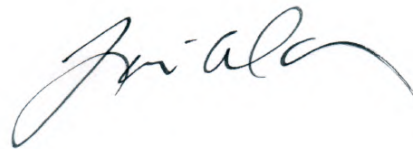
The attached report, comprising ten sections and two exhibits, is an explanation of the method of valuation. This letter and report must not be separated because together they provide the necessary detail, analysis and explanation in support of the value opinions expressed herein.

Respectfully submitted,

Gerald Alcock Company, LLC



Michael T. Williams, MAI
General Certified Appraiser
License No. 1201004033



Lorie Alcock
General Certified Appraiser
License No. 1201000499



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ADDENDUM

Municipal Documents A

Private Documents B



EXECUTIVE SUMMARY

- Location:** The property is located at the west side of South Industrial Highway, at the juncture of Rosewood Street, in the city of Ann Arbor, Washtenaw County, Michigan.
- Mailing Address:** Municipal records indicate that the property under valuation has an address assignment of 2000 South Industrial Highway, Ann Arbor, Michigan 48108.
- Tax Identification:** 09-12-04-200-013
- Property Owner:** Municipal records indicate the property is owned by the city of Ann Arbor.
- Type of Report:** This is an Appraisal Report.
- Occupancy and Use:** The property is owner-occupied for water treatment related and Housing Commission office uses.
- Improvements:** The property is improved with buildings and holding tank related to water treatment and Housing Commission office uses, analyzed as hypothetically vacant, excepting preservation of the water tank.
- Site:** The appraisal property, configured to a near parallelogram, comprises approximately 4.09 gross and net acres, with 410.32 feet of frontage and one curb cut on the west side of South Industrial Highway with a depth of 459.81 feet at its irregular southern border. The property lies adjacent to an Ann Arbor Railroad eastern right-of-way. Topography is generally level. Although cover consists of impervious building and site improvements, the property is analyzed under hypothetical condition as though vacant, excepting preservation of a water tower facility with assumed easement access; ready for development without environmental hazards; and, is not subject to any uncited adverse easements or deed restrictions. City site improvements include sidewalk, streetlights and concrete curbs and gutters.



Utilities: The property is serviced by all standard commercial and municipal utilities, inclusive of public water and sewerage, natural gas, electricity, and telephone utilities.

Zoning: The property is zoned PL, Public Land District. At the direction of the client, valuation is variably predicated upon R4B, R4D, Multiple-Family Dwelling and O, Office District zoning parameters.

Highest & Best Use: Highest and best use of the property is redevelopment to an intense multiple-family use, as allowed by code under assumed R4B or R4D zoning parameters, or to an office use, as allowed by code, under assumed O zoning parameter.

Interest Appraised: Fee Simple Estate

**Estimated Market Value
of the Subject Property:**

	Valuation Condition	Valuation Date	Value Estimate
Scenario 1	Hypothetical R4B	09/11/19	\$1,400,000
Scenario 2	Hypothetical R4D	09/11/19	\$2,295,000
Scenario 3	Hypothetical O	09/11/19	\$3,525,000

Assumptions: These value estimates are made subject to the “General Assumptions and Limitations of Appraisal,” and the following “Hypothetical Condition and Extraordinary Assumptions” to this report.

Hypothetical Condition

1. At the direction of the client, the appraisal property is analyzed in accordance with three development proposals put forth within the body of the text and at exhibit B herein, hypothetically assuming R4B, R4D, Multiple-Family Dwelling or O, Office zoning district scenarios, presuming the property is vacant, excepting preservation of a water tower facility with assumed easement access; ready for development without environmental hazards; and, is not subject to any uncited adverse easements or deed restrictions. The water tower facility is presumed to have



no contributing impact other than as a view factor and occupation of physical tower area and assumed easement access, hypothesized to be reflected in the number of units proposed. The tower and presumed easement are assumed to be maintained by the City. Valuation predicated upon any other condition, could impact the value conclusions reported herein.

Extraordinary Assumptions

1. The appraisers have been provided with historical title work pertaining to varying configurations of property, of which the subject has been a part. The documentation includes an Atwell-Hicks, Inc. survey, dated May 23, 1997, which appears to include an area of land extending from the northwest border of the site, but appears to be excluded from current municipal mapping and legal description. The appraisers have not otherwise been provided with a legal description, building or site plans and have been directed by the client to make an exterior inspection from the street. They have relied upon a legal description, site descriptions and areas culled or deduced from municipal documents. It is an assumption of this report that gross and net site areas, descriptive detail and condition delineated herein roughly conform to actual (hypothetically vacant) conditions; if not, the value conclusions could be impacted; and

2. The appraisers have not been provided with professional soil boring analysis for the appraisal property. Valuation is predicated upon the assumption that the subject soils are suitable for commercial-type construction similar to that proposed or found on surrounding parcels. If such is not the case, the value conclusions could be impacted.



View North of South Industrial Highway

View South of South Industrial Highway



View East of Rosewood Street



Site Interior

Site Interior



Site Interior





IDENTIFICATION OF PROPERTY

Real Property

Address

The property under valuation has an address assignment of 2000 South Industrial Highway, Ann Arbor, Michigan 48108.

Tax Identification Number

09-12-04-200-013

Legal Description

A legal description for the property under valuation, culled from municipal documentation, upon which the appraisers have relied, is put forth at exhibit A herein.

Leases and Title Interest Appraised

To the best of the appraisers' knowledge, the property is not subject to lease and the fee simple title interest is the focus of the analysis at hand.

Furniture, Fixtures and Equipment

Valuation of personal property and trade fixtures is beyond the scope of this appraisal, which is limited to real property alone. In estimating the market value of the property, the appraisers specifically exclude from valuation any and all items which are considered to be chattel possessions of the property owner or occupant.

Client

The appraisers were engaged by the Ann Arbor Housing Commission to prepare this appraisal report.



Property Owner

Municipal records indicate the property is owned by the city of Ann Arbor.

Occupancy and Use

The property is owner-occupied for water treatment related and Housing Commission office uses.



PURPOSE, DEFINITION OF MARKET VALUE, USE AND INTENDED USER OF REPORT, AND SCOPE

Purpose

The purpose of this appraisal is to estimate current as-is market values assuming varying zoning parameters, pertaining to fee simple interest to the appraisal property, identified in the foregoing section of this report, subject to the conditions and limitations stated in this report.

Fee Simple Estate (Interest): Absolute ownership unencumbered by any other interest or estate, subject only to the limitations imposed by the governmental powers of taxation, eminent domain, police power, and escheat.¹

Definition Of Market Value

As used herein, the definition of market value is as follows:

The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller each acting prudently and knowledgeably, and assuming the price is not affected by undue stimulus.

Implicit in this definition is the consummation of a sale as of a specified date and by the passing of title from seller to buyer under conditions whereby:

1. Buyer and seller are typically motivated;
2. both parties are well informed or well advised, and acting in what they consider their own best interests;
3. a reasonable time is allowed for exposure in the open market;
4. payment is made in terms of cash in U.S. dollars or in terms of financial arrangements comparable thereto; and

¹ The Dictionary of Real Estate Appraisal, Fifth Edition, Appraisal Institute, Chicago, IL, 2010, p. 78



5. the price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions granted by anyone associated with the sale.²

Use and Intended User of Report

The use of this appraisal is to serve as an estimate of the market value of the property under valuation for the purpose of assisting the client with asset management and financial planning.

This appraisal has been prepared for our client, the Ann Arbor Housing Commission, the intended user of the report.

Appraisal Development and Report Process (Scope)

The scope of this appraisal encompasses the necessary research and analysis to prepare a report in accordance with its intended uses as set forth in the above subsection and with the Uniform Standards of Professional Appraisal Practice of the Appraisal Foundation. In the appraisal of the subject property, the appraisers employed the following data sources:

Physical Data

The property was inspected on the date noted at the “Narrated Dates” subsection of this report. The appraisers secured current assessment, special assessment, and zoning data pertinent to the subject property. The following are additional sources were used to provide information pertaining to the subject property:

1. Ann Arbor Municipal Offices
2. Washtenaw County Treasury Department

Area and Neighborhood Data

The appraisers conducted a physical inspection of the area within which the subject is located to obtain area and neighborhood data. Additionally, governmental sources were contacted in order to obtain information pertaining to such things as adequacy of infrastructure; availability of utilities; employment statistics; zoning; flood hazards;

² *The Dictionary of Real Estate Appraisal*, Third Addition, Appraisal Institute, Chicago, IL, 1993, p.140.



environmental hazards; and anticipated development trends. Government officials, and real estate brokers conducting business in the area of the subject were contacted regarding supply, demand, and market trends.

Market Data Sources

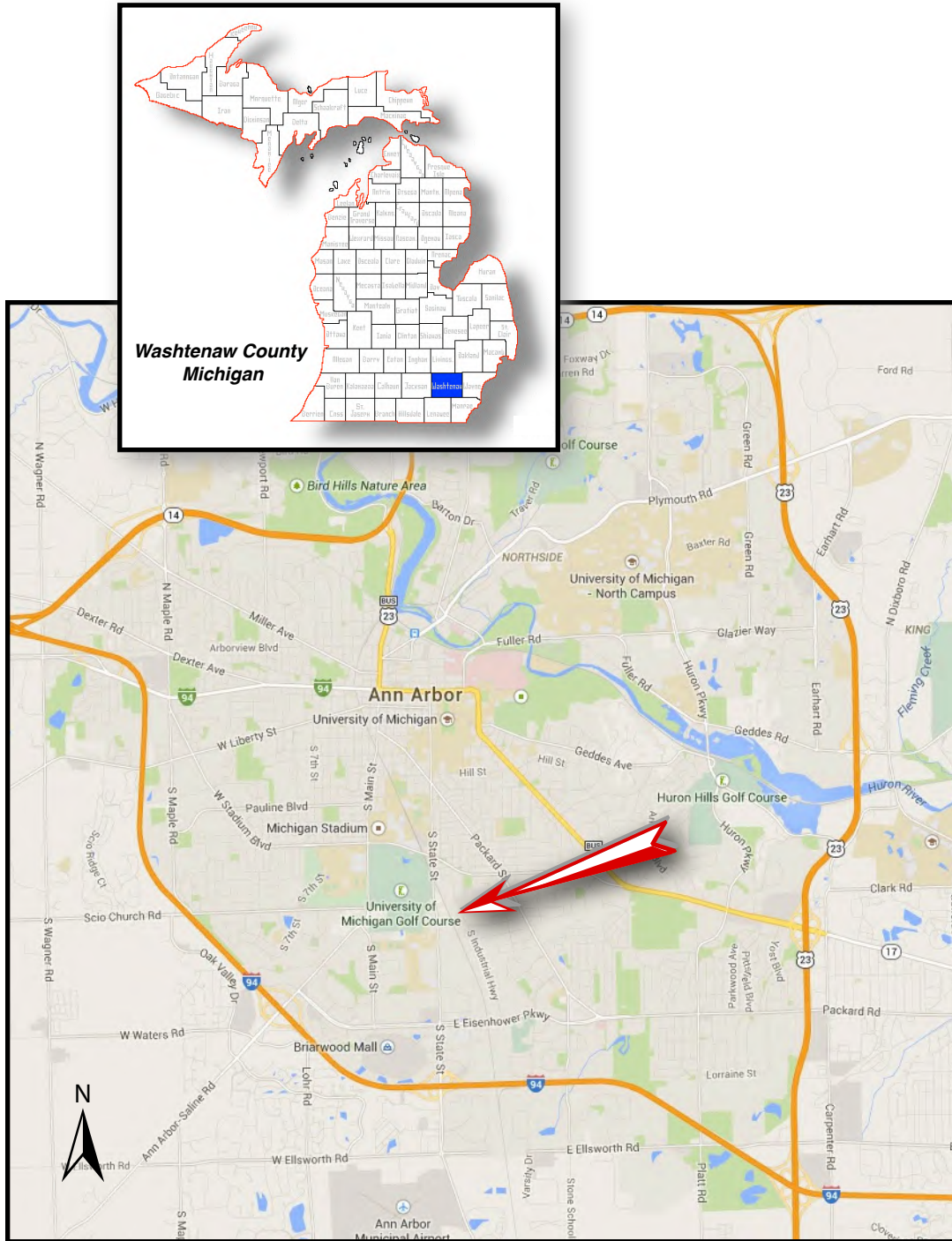
Physical data for each individual comparable sale is detailed within the “Analysis of Value,” subsection of this report. The sources of this data are cited at this section. Real estate brokers conducting business in the area of the subject were interviewed regarding recent real estate activity in the area. Sources of additional general market data are listed as follows:

Data files from the Gerald Alcock Company
Ann Arbor Area Board of Realtors Multiple Listing Service
Costar Comps
Swisher Commercial
Colliers International

The steps the appraisers used to develop the value estimate stated herein proceed from the Highest and Best Use analysis set forth within the "Analysis of Value" subsection of this report. The General Underlying Assumptions and Limiting Conditions to which this report and its value conclusion are subject are set forth in the section bearing that title and must be thoroughly read and understood by anyone using this report.



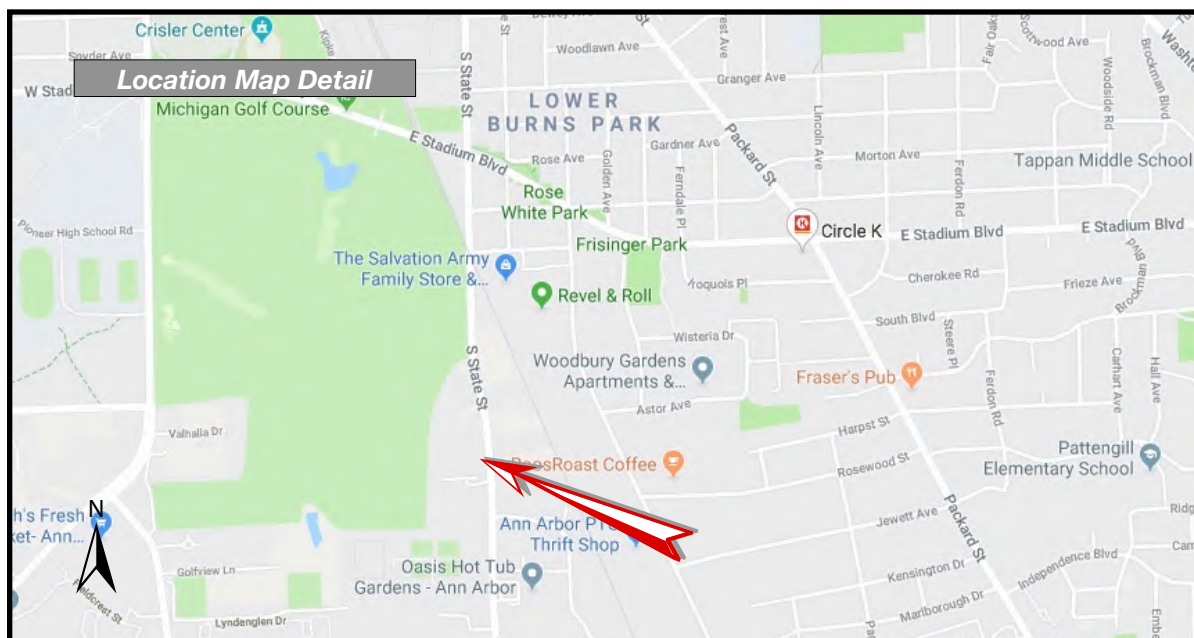
DESCRIPTION OF PROPERTY





Location and Neighborhood

As shown in the adjacent map graphic, the property is located at the west side of South Industrial Highway, at the juncture of Rosewood Street, in the city of Ann Arbor, Washtenaw County, Michigan. The property has an Ann Arbor mailing address and is serviced by Ann Arbor Public school district.



South Industrial Highway is a two-lane corridor, providing nexus to East Eisenhower Parkway to the south and East Stadium Boulevard to the north. It is an established industrial artery predominated by light industrial and office uses with a concentration of commercial development found near the intersection with East Stadium Boulevard, including the Colonial Lanes Plaza shopping center, Revel and Roll bowling alley, a CVS pharmacy, Lucky's Market (which recently replaced the former Kroger grocery store), an urgent care facility, and the Ann Arbor Transportation Authority (AATA) headquarters. Woodbury Gardens apartment complex is also found in the vicinity, south of East Stadium Boulevard, comprised of several hundred rental units, constructed in the mid-1960s. Areas immediately northeast, east, and southeast of the subject are predominantly single-family in nature, consisting of moderate homes in established subdivisions. The University of Michigan Golf Course is located northwest of the subject.

Eisenhower Parkway is a highly developed office corridor, loosely identifying with the super-regional Briarwood shopping mall. It is improved with multi-story office buildings, considered one of the premier office locations within the City.



The subject is about two miles north of Interstate-94, with access from South State. I-94 provides connection to the cities of Detroit to the east and Chicago to the west and links to M-14 to the north and US-23 to the east.

The City's central business district, about one mile northwest, is largely built-up with modern office and retail uses, as well as historical mixed-use office and multiple-family conversions. Within the Ann Arbor CBD and Campus District, there are several multi-story developments for student housing, professional occupancy, parking and retail/office uses that are recently constructed or progressing.

The University of Michigan central campus and Campus Commercial District are located about two miles northwest of the subject. The University of Michigan is a state university, with a student body of approximately 44,000 persons, offering undergraduate- and graduate-level programs, having nationally recognized Law and Business schools. The University of Michigan Medical Center, the largest teaching and research facility in the Midwest, is a sprawling hospital campus that dominates the south side of the Huron River, approximately one half mile northeast of the subject. Together, the University and Medical Center are the largest employers in Washtenaw County, with over 33,000 employees in combination.

In summary, the appraisal location is mixed-use, peripheral, but convenient to both the University of Michigan and Ann Arbor's Central Commercial District, as well as to local highways and interstates. The city of Ann Arbor, while largely developed, continues to attract a diverse homeowner base, buoyed by the relative resilience of the commercial and educational core. Development opportunities emerge through annexation of land, infill and raze and redevelopment. While population and household growth estimates fluctuate, new housing units are generally well patronized.

The Ann Arbor MSA encompasses areas only within the boundaries of Washtenaw County and thus has the same statistical data as the County. Owing to its central location, as well as cultural and educational advantages, the city of Ann Arbor is the metropolitan center to large portions of surrounding townships and neighboring towns. A summary of recent trends compiled by ESRI in population and households—for the city of Ann Arbor, Washtenaw County, and the State of Michigan—is set forth in the following table.

As shown in the following graphic, the City had a 2010 population of 113,960 persons, which is estimated to have increased by 9,022 persons as of 2019, representing an annual increase of 0.85 percent per year over the nine-year period. From 2019 to 2024, the population in the City is anticipated to increase by 0.59 percent annually. The County population in 2010 was 344,791 persons, increasing annually by 0.76 percent, to 369,148



persons by 2019, forecast for an annual 0.59 percent increase from 2019 to 2024. Growth in the State had an estimated annual increase in populous of 0.24 percent per year from 2010 to 2019, and is forecast to increase at a rate of 0.27 percent per year from 2019 to 2024.

Population & Household Trends

Population	2010	2019	2024	Compound Annual Change	
				2010-2019	2019-2024
City of Ann Arbor	113,960	122,982	126,639	0.85%	0.59%
Washtenaw County	344,791	369,148	380,236	0.76%	0.59%
State of Michigan	9,883,640	10,097,879	10,233,588	0.24%	0.27%
Households					
City of Ann Arbor	47,071	50,035	51,701	0.68%	0.66%
Washtenaw County	137,193	144,715	149,092	0.59%	0.60%
State of Michigan	3,872,508	3,983,294	4,047,627	0.31%	0.32%

Source: ESRI

The number of households in the City was 47,071 in 2010, which increased at an annual rate of 0.68 percent by 2019. Households in the County increased at an annual rate of 0.59 percent, while the State increased by 0.31 percent over the same period. Household growth in the City is forecast to increase by 0.66 percent; the County is forecast for a 0.60 percent increase; and the State is forecast for a 0.32 percent annual increase by 2024.

Median household income levels for the city of Ann Arbor, Washtenaw County, and the State of Michigan are illustrated in the following table called, “Median Household Income.”

Median Household Income Trends

Median Household Income	2019	2024	2019-2024
City of Ann Arbor	\$65,324	\$75,502	2.9%
Washtenaw County	\$71,983	\$83,282	3.0%
State of Michigan	\$55,885	\$63,460	2.6%

Source: ESRI



The reader should note that the figures cited in the foregoing table are expressed in current dollars. Median household incomes in the City and County are forecast to surpass the projected Township and State figures. It is worthwhile to note that median household income in Washtenaw County is above both State and national levels.

The client relies upon a Median Family Income rate derived from HUD. Following is the 2019 rate for Ann Arbor, MI MSA.

Area	Unrounded FY 2019 MFI Estimate	Rounded FY 2019 MFI Estimate
Ann Arbor, MI MSA	\$101,222	\$101,200

As shown, there is a disparity of 54.92 percent between the 2019 median household income for the Ann Arbor MSA derived from ESRI, which appraisers typically rely upon, and the figure derived from HUD. The HUD figure is derived from a 2016 American Community Survey five-year median income estimate adjusted for a CPI inflation factor, and rounded. Moody's Analytics DataBuffet.com indicates that the differential is a consequence of the definitions of family and household. The U.S. Census Bureau writes:

A family consists of two or more people (one of whom is the householder) related by birth, marriage, or adoption residing in the same housing unit. A household consists of people who occupy a housing unit regardless of relationship. A household may consist of a person living alone or multiple unrelated individuals or families living together.

Moody's elaborates: "Median family income is typically higher than median household income because of the composition of households. Family households tend to have more people, and more of those members are in their prime earning years[,] as contrasted with members who have lesser incomes because they are young or elderly."

The following chart illustrates unemployment trends over the last ten years for the city of Ann Arbor, Washtenaw County and the State of Michigan.



Unemployment Rates

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
City of Ann Arbor	9.1%	9.2%	6.9%	5.8%	6.1%	5.1%	2.9%	2.6%	1.8%	2.2%
Washtenaw County	8.6%	8.6%	6.5%	5.4%	5.8%	4.8%	3.6%	3.1%	3.0%	2.6%
State of Michigan	13.6%	13.1%	10.3%	8.9%	8.7%	7.2%	5.4%	4.7%	4.7%	4.0%

Source: US Department of Labor

City, County, and State experienced increasing unemployment which peaked in 2010, resultant of regional and national declines in the economy. Beginning in 2011 through the present, unemployment rates indicate significant decline, relative to prior years.

The local economy in Washtenaw County, greater Ann Arbor, and surrounding communities historically improved in the early aughts with an increasing employment base owing to a diverse local economy anchored by the University of Michigan, health care, and a variety of high-tech, research and development businesses. Washtenaw County and greater Ann Arbor have historically been insulated from cyclical economic conditions owing to their more diverse employment base. The City remains one of the most stable communities in the area owing to the presence of the University of Michigan and the University of Michigan Medical Center. The appraisal property's mixed-use peripheral location—convenient to both the University of Michigan and Ann Arbor's Downtown Central Business District—is considered suitable for a variety of users, depending of the zoning parameter.

Site, Yard Improvements and Utilities

The appraisal property, configured to a near parallelogram, comprises approximately 4.09 gross and net acres, with 410.32 feet of frontage and one curb cut on the west side of South Industrial Highway with a depth of 459.81 feet at its irregular southern border. The property lies adjacent to an Ann Arbor Railroad eastern right-of-way. Topography is generally level. Although cover consists of impervious building and site improvements, the property is analyzed under hypothetical condition as though vacant, excepting preservation of a water tower facility with assumed easement access; ready for development without environmental hazards; and, is not subject to any uncited adverse easements or deed restrictions. City site improvements include sidewalk, streetlights and concrete curbs and gutters.

The property is serviced by all standard commercial and municipal utilities, inclusive of public water and sewerage, natural gas, electricity, and telephone utilities. A tax plat map with topographical and aerial overlays depicting the subject site follows.





Assessed Valuation and Taxes

On August 26, 1994, Proposal “A” was adopted by Michigan voters. Proposal A established a new property tax base for Michigan which is known as taxable value. State Equalized Value, or S.E.V., is no longer the tax base. Property taxes are now calculated using the following formula.

$$\text{Tax Rate (Mills Levied)} \times \text{Taxable Value} = \text{Tax Bill}$$

Proposal A provides that, until such time as the ownership of a property is transferred, its taxable value may not increase annually at greater than five percent, or the annual inflation rate, whichever is less. This process is referred to as putting a limit, or cap, on annual increases in property taxes and applies to each individual parcel of property. The notable exception to this would be in the case of new construction or loss of improvements.

The Michigan constitution requires that an assessed value be established annually for each parcel of property according to the market value of the property, at 50 percent of “the usual selling price,” as has historically occurred. Assessments are subject to county and state equalization and each taxable parcel is assigned an S.E.V. Neither assessed values nor S.E.V.’s are capped.

The property under valuation is identified under the following tax code. As the property has a tax exempt status, 2019 state equalized (SEV) and taxable values are not available.

Tax Code	2019 SEV	2019 TV
09-12-04-200-013	Exempt	Exempt

Treasury Department documentation indicates there are currently no special assessments levied against the subject property.

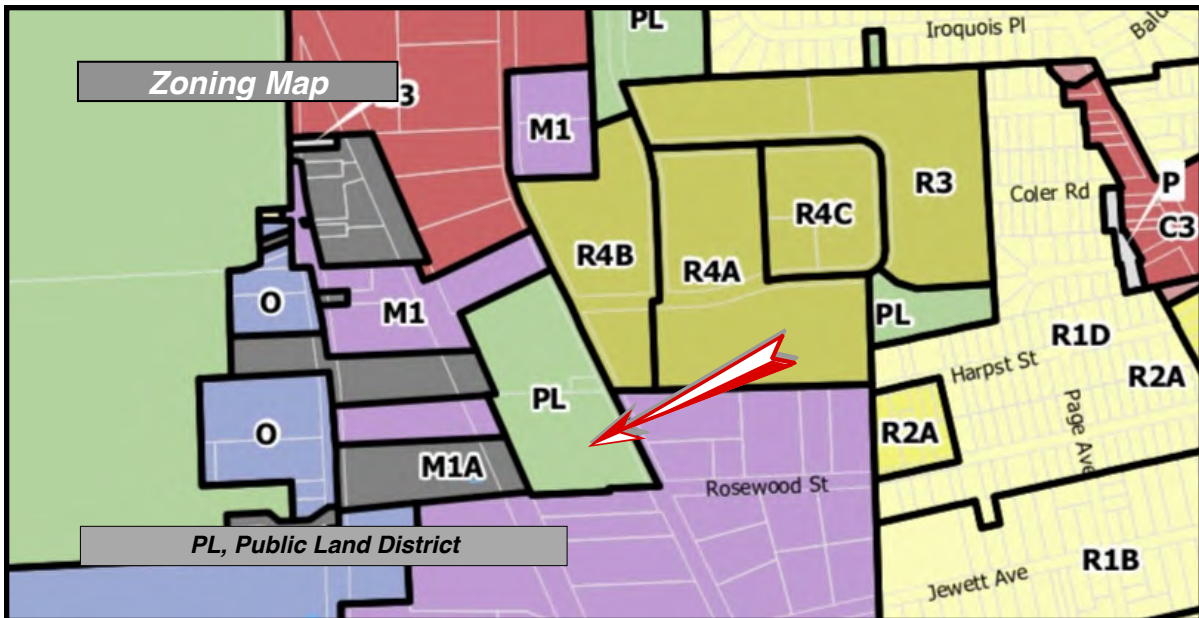
Flood Hazard

According to the flood insurance rate map published by the Federal Emergency Management Agency (FEMA), for the city of Ann Arbor, community panel number 26161C0263E, effective date April 3, 2012, the property lies in a Zone X category, determined to be an area of minimal flood hazard.



Zoning

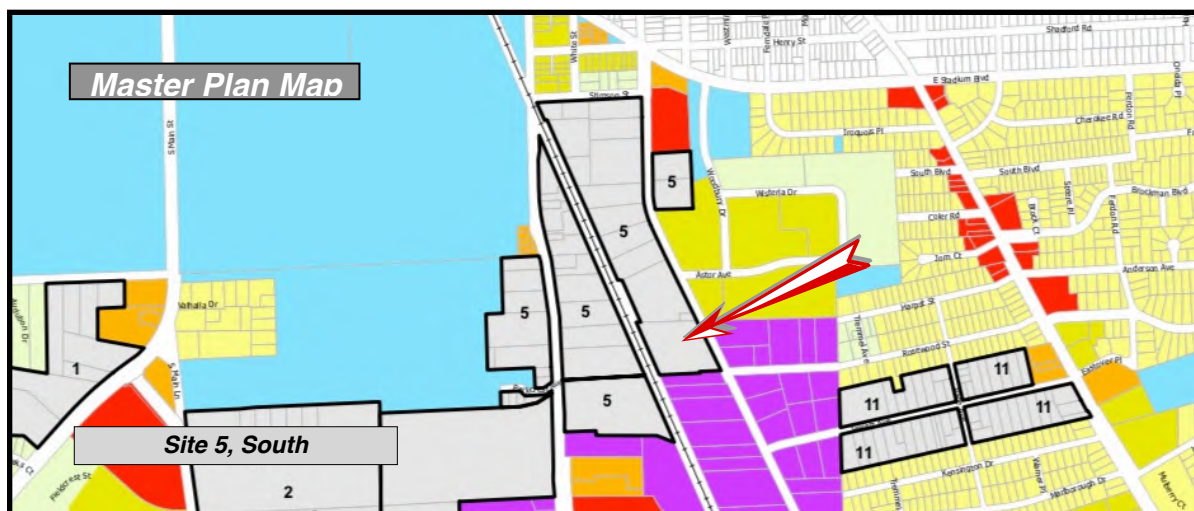
As shown below, the subject property is currently zoned PL, Public Land District.





The property is master-planned as part of Site 5 within the South Area Future Land Use map. Site 5 is defined as follows.

Site 5: Both sides of State Street to the south end of the U of M Golf Course, and the north end of South Industrial. As sites are annexed into the City, uses consistent with the light industrial district should be encouraged. Residential and commercial uses should be discouraged, except for the parcels adjacent to the Stimson and South Industrial commercial area. This area could serve as a location for a City garage facility since it is zoned or master planned appropriately and is centrally located. Sites on the west side of State Street should be office use. If ORL zoning is desired in this vicinity, the area zoned M1 and M2 south of the proposed de Koning Drive has large parcels and land uses that fit the intent of the district. -Page 111



As noted in the Hypothetical Condition subsection of this report, valuation is predicated upon assumption of R4B, R4D, Multiple-Family Dwelling and O, Office Districts. Following are discussions of those districts.

Office District

The zoning ordinance states that the intent of this “district is primarily for office buildings. The office district classification will be applied as a transitional use buffer between residential uses and uses which would be incompatible in direct contact with residential districts.”

Permitted principal uses in the office district include business offices; offices of physicians, dentists and other health practitioners; legal, engineering, architectural and other; finance, insurance, real estate; travel bureau; banks; government offices; a variety of businesses, such as advertising and consumer credit agencies, among other services; nonprofit, member, political and religious organizations; veterinary hospitals and kennels; beauty salons; any



permitted use in the “R” dwelling district, subject to all regulations of the district in which it occurs; indoor court game facilities; artists’ studios; funeral homes; private colleges and universities, among other uses.

Permitted accessory uses include those allowed in the R3 district(which include townhouses, any permitted use in the R2A two-family dwelling district, and child care and nursery schools) and incidental services within office buildings.

The office district requires a minimum site area of 6,000 square feet and a minimum lot width of 50 feet; maximum 40 percent allowance of useable floor area in percentage of lot area; maximum height of 40 feet and three stories; and 25-foot front setback; 20-foot side setback for that open space abutting residentially-zoned land, otherwise none; and 30-foot rear setback for that open space abutting residentially zoned land, otherwise none.

Multiple-Family Dwelling Districts

The ordinance states that the R4B, R4C, R4C/D and R4D districts “are intended to permit dwelling units to be arranged one above the other or side by side.”

The R4B multiple-family dwelling district should be located in intermediate areas of the City, situated on small tracts of land in established areas for in-fill purposes or medium sized tracts of land for moderate-sized developments.

The R4D multiple-family dwelling district is intended to permit a higher density in the form of high-rise buildings on substantial tracts of land located in areas other than the central business district.

Permitted principal uses in the R4B through R4D districts include multi-family dwellings; rooming and boarding houses and emergency centers; any permitted use in the R1C single-family dwelling districts, R2A and R2B two-family dwelling districts, and R3 townhouse dwelling districts, subject to all the regulations of the district in which the use first occurs; convalescence and nursing homes, homes for the elderly, subject to 400 square feet of lot area per occupant; hospitals, as a special exception use pursuant to section 5:104, provided that there is a minimum of 1,500 square feet of lot area per bed. Permitted accessory uses include those allowed in the R3 district.

Following are zoning requirements for R4B and R4D districts as well as respective development potential projections under each parameter specific to the subject sites, prepared by Carlisle Wortman Associates for the Ann Arbor Housing Commission.



Scenario 1 (R4B, Multiple-Family Dwelling District)

Zoning Requirements	
Lot Area	178,058 sq/ft (4.09 acres)
Maximum Dwelling Units Per Acre (15 units per acre)	4.09 x 15 = 61 units
Minimum Lot Area Per Dwelling Units (2,900 sq/ft per unit)	2,900 sq/ft = 61 units
Minimum Open Space	55% (97,930 sq/ft)
Recreational Open Space per Unit	100 x 300 sq/ft = 30,000 sq/ft
Setbacks	Front: 15 min, 40 max Side: 12 plus + the minimum building height setback Rear: 30 plus + the minimum building height setback
Maximum Building Height	Maximum of 35 feet or 45 feet for Buildings with parking below at least 35% of the building
Parking	Vehicle: 2 spaces per dwelling unit. Bike: 1 space per 5 dwelling units, 50% enclosed, and 50% fixed hoop style racks.
Consistent with Master Plan	Yes, with appropriate buffering
Floodplain / Floodway	No
Treeline Dedication	No

Development Potential	
Number of Units	52
Building Type	Apartment
Avg. Unit Size	820 sq/ft
Total Building Size	50,013 sq/ft
Building Height	3-stories, 35 feet
Parking	104 surface lots

As shown, the R4B district allows a minimum lot area per dwelling area of 2,900 square feet, equating to a density allowance to 15 units per acre (UPA). After consideration for preservation of the water tower, open space and parking requirements, the 4.09-acre site is proposed to support 52 820-square-foot apartment units in a three-story building comprising 50,013 gross square feet, with 104, or two surface parking spaces per unit.



Scenario 2 (R4D, Multiple-Family Dwelling District)

Zoning Requirements	
Lot Area	178,058 sq/ft (4.09 acres)
Maximum Dwelling Units Per Acre (25 units per acre)	4.09 x 25 =102 units
Minimum Lot Area Per Dwelling Units (1,740 sq/ft per unit)	1,740 sq/ft = 102 units
Minimum Open Space	50% (89,030 sq/ft)
Recreational Open Space per Unit	100 x 300 sq/ft = 30,000 sq/ft
Setbacks	Front: 15 min, 40 max Side: 30 plus + the minimum building height setback Rear: 30 plus + the minimum building height setback
Maximum Building Height	120 feet
Parking	Vehicle: 2 spaces per dwelling unit. Bike: 1 space per 5 dwelling units, 50% enclosed, and 50% fixed hoop style racks.
Consistent with Master Plan	Yes, with appropriate buffering
Floodplain / Floodway	No
Treeline Dedication	No

Development Potential	
Number of Units	85
Building Type	Apartment
Avg. Unit Size	870 sq/ft
Total Building Size	87,000 sq/ft
Building Height	5-stories, 60 feet
Parking	170 total, 119 surface and 51 under building

As shown, the R4D district allows a minimum lot area per dwelling area of 2,900 square feet, equating to a density allowance to 25 units per acre (UPA). After consideration for preservation of the water tower, open space and parking requirements, the 4.09-acre site is proposed to support 85 870-square-foot apartment units in a five-story building comprising 87,000 gross square feet, with 170, or two parking spaces per unit, 119 of which are surface types and 51 of which are underground.



Scenario 3 (O, Office District)

Zoning Requirements	
Lot Area	178,058 sq/ft (4.09 acres)
Floor Area Ratio (F.A.R)	75%
Minimum Open Space	Not applicable
Recreational Open Space per Unit	Not applicable
Setbacks	Front: 15 min, 40 max Side: 30 plus + the minimum building height setback Rear: 30 plus + the minimum building height setback
Maximum Building Height	No maximum except in any area on a parcel extending 300 feet from an abutting residentially zoned land, the maximum height limits shall be 55 feet and 4 stories.
Parking	Vehicle: 1 space per dwelling unit. Bike: 1 space per 5 dwelling units, 50% enclosed, and 50% fixed hoop style racks.
Consistent with Master Plan	Yes, with appropriate buffering
Floodplain / Floodway	No
Treeline Dedication	No

Development Potential	
Number of Units	141
Building Type	Apartment
Avg. Unit Size	820 sq/ft
Total Building Size	133,543 sq/ft
Building Height	4-stories, 44 feet
Parking	141 surface spaces

As shown, the Office district allows a 75 percent Floor Area Ratio (FAR). After consideration for preservation of the water tower, buffering and parking requirements, the 4.09-acre site is proposed to support 141 820-square-foot apartment units in a four-story building comprising 133,543 gross square feet, with 141, or one surface parking space per unit.



Easements and Deed Restrictions

As detailed in the “Hypothetical Condition” subsection of this report, value predicated upon the assumption the the appraisal property is not subject to any uncited adverse easements or deed restrictions. For purposes of valuation, the water tower facility is presumed to have easement access, hypothesized to be reflected in the number of units proposed. The tower and presumed easement are assumed to be maintained by the City.

The appraisers have not been provided with current title work of the subject property. Historical title work pertains to other configurations of the property. The appraisers express no opinion as to the existence of easements or restrictions to the subject property that would adversely affect market value or in any way create an exception to clear title. For the purposes of this appraisal, it is presumed that any easements or restrictions to clear title consist only of typical utility, drainage and road right-of-way easements that do not preclude normal development of the property and have no influence on market value. As stated in the Hypothetical Condition subsection of this report, valuation is predicated upon the absence of adverse easements or deed restrictions affecting the property.

Environmental Hazards

The appraisers did not detect the presence of obvious signs of contamination on the site as a result of physical exterior inspection from the street. Notwithstanding the foregoing statement, the appraisers specifically note that the recognition, detection or measurement of contamination is outside the scope of this appraisal assignment and their professional expertise. Consequently, the value opinion expressed herein is predicated upon the absence of toxic or otherwise hazardous substances or materials from the property. If contaminants now affect the appraisal property, or will do so in the future, their presence may adversely affect the marketability and/or value of the property expressed herein. As stated in the Hypothetical Condition subsection of this report, valuation is predicated upon the absence of environmental hazards affecting the property.



ANALYSIS OF VALUE

Current Market Conditions and Trends

National

According to the most recent University of Michigan's Research Seminar in Quantitative Economics, for March 2019, "Real GDP grew by 2.9 percent in 2018, the strongest reading in thirteen years. Over 2019 - 2020, we expect GDP growth to decelerate as the temporary boost from the tax cuts and federal spending fades. Our forecast assumes de-escalation of trade tensions with China and no new tariffs on other nations.

The initial estimate of real GDP growth in the fourth quarter of 2018 showed a deceleration to a 2.6 percent seasonally adjusted annual rate, down from 4.2 percent in the second quarter and 3.4 percent in the third quarter. Investment in structures, government spending except for defense, and imports were all drags on GDP growth. The bright spots in the fourth quarter were consumer durables, intellectual property investment, investment in cars, and investment in multi-family residential structures.

The shutdown and the sharp stock market sell-off at the end of 2018 appear to have broken the wave of high confidence the economy had been riding since the 2016 election. Measures of consumer and business confidence worsened in December and January. The stock market, policy uncertainty measures, and confidence indices have been improving recently, alleviating concerns of imminent recession. These recession scares may become more frequent as the economy comes off a fiscal high during 2019.³

More highlights within the March 2019 released RSQE forecast are reported as, "Wage growth continues to improve. As of February, year-over-year average hourly earnings of employees on private non-farm payrolls were growing at a 3.4 percent pace, the strongest reading since April 2009. The unemployment rate temporarily jumped to 4.0 percent in January, largely due to the partial government shutdown. The unemployment rate ticked back down to 3.8 percent in February.

Driven by falling oil prices, headline CPI inflation decelerated considerably in recent months, falling to 1.5 percent year-on-year in February. Core CPI inflation retreated slightly early in 2019, registering 2.1 percent over the prior 12 months in February.

³ University of Michigan. *RSQE*, March 2019



Every year since 2015, strong light vehicle sales in the fourth quarter have been followed by weakness in the next quarter, and this trend has held up so far in 2019. Light vehicle sales averaged 17.5 million units in the fourth quarter of 2018, while the January–February 2019 average was 16.6 million units. Inventories of light trucks appear to be rising. We expect inventory control to occur through production slowdowns rather than growth of incentives in the near term.

The single-family home market suffered multiple setbacks in 2018. Price appreciation eroded affordability, continuing a trend that had been ongoing for several years. Mortgage rates rose to their highest level since 2011 in the fourth quarter of 2018. Slowing sales and rising inventory shifted the housing market balance in favor of buyers, with home price appreciation slowing.

We expect federal government spending to ramp up during the first half of 2019, reflecting fiscal 2018 - 19 federal appropriations making their way into NIPA outlays and a catch-up of spending delayed by the recent partial federal shutdown. The path of spending beyond fiscal 2019 is uncertain and probably not as lavish.

On March 2, the debt ceiling reset to 22 trillion dollars; without action, sequester-level caps will return in fiscal 2020. We expect Congress to address both issues without major drama. Our forecast is for Congress to continue on its current trajectory of increasing spending and ballooning deficits over the next two years.

The stock market dived while financial volatility shot up in December after an interest rate hike and hawkish guidance from the Federal Reserve. By early January the Fed reversed course, with Chairman Powell reassuring markets that the Fed would be flexible with the policy tools at its disposal.

Inflation remains close to the Fed's two percent target, while the labor market tightens somewhat further. As a result, we currently project one 25-basis-point fed funds rate range increase in December 2019, followed by one more in 2020.⁴

2019-2020 Outlook

Calendar-year growth slows to 2.4 percent in 2019 and only 1.8 percent in 2020, as the fiscal boost from lower taxes and higher federal spending wanes.

⁴ Ibid



As the economy slows, so do light vehicle sales. The all-time high of 2016's 17.5 million units is now a distant memory. Total light vehicle sales fall from 17.2 million units in 2018 to 16.8 - 16.9 million units in 2019 - 2020.

Total housing starts barely improve in 2019 - 2020. Single-family home starts stay flat in 2019 and increase only 20,000 units in 2020. We expect multi-family home starts to edge down between 2018 and 2020.

Average monthly non-farm payroll job gains decelerate from about 207,000 job additions per month in 2019 Q1 to 143,000 in 2019 Q4 and to 109,000 at the end of 2020. The unemployment rate continues to decline, falling from 3.9 percent in 2019 Q1 to 3.6 percent at the end of 2019. It stays at that level until the end of 2020.

In 2019, core CPI inflation remains about flat with 2018's 2.1 percent pace and then ticks up to 2.2 percent in 2020. Driven by lower energy prices, headline CPI inflation decelerates to 1.7 percent in 2019. A mild rise in energy prices helps inflation to rise to 2.0 percent in 2020.⁵

Michigan

According to the most recent University of Michigan's Research Seminar in Quantitative Economics, for April 2019, "Michigan has added jobs in every year from 2011 to 2018, resulting in total growth of 555,400 jobs. The pace of job growth has generally slowed over the recovery period, however, from 88,400 job gains in 2011 to 49,400 in 2017. The state added 50,000 jobs in 2018, placing it slightly above that trend.

We forecast Michigan's economy to add 37,000 jobs in 2019 and 26,000 in 2020. Those totals translate to growth rates of 0.8 percent and 0.6 percent, respectively, down from an average of 1.7 percent from 2011 - 2018.

Michigan's unemployment rate has stayed in the 3.9 - 4.0 percent range every month since June 2018, and we expect it to average 3.9 percent in each of the next two years. We see the state's labor force participation rate creeping up to 61.5 percent in that time, but the aging of the state's labor force puts a ceiling on how far it can climb.⁶

⁵ Ibid

⁶ University of Michigan. *RSQE*, April 2019



More highlights within the April 2019 released RSQE forecast are reported as, “Local inflation picked up from 2.1 percent in 2017 to 2.4 percent in 2018, due in large part to the increase in gas and energy prices from mid-2017 through the third quarter of 2018. Energy prices have since tumbled substantially, which we expect to put significant downward pressure on inflation in 2019. Local inflation registers 1.3 percent this year before climbing to 1.9 percent in 2020 as energy prices stabilize.

Nominal personal income growth dipped from 3.5 percent in 2017 to 3.3 percent in 2018 amid a disappointing slowdown in the growth of wages and salaries and proprietors’ income. We see personal income growth accelerating over the next two years to 3.6 percent in 2019 and 4.0 percent in 2020. A rebound in the growth of wage and salary income in 2019 is joined by pickups in the growth of proprietors’ income and property income in 2020.

Real disposable personal income growth held flat at 1.4 percent per year from 2017 to 2018, as higher inflation and slower nominal growth were counter-balanced by a decline in personal taxes driven by the 2017 tax cuts. Real disposable income growth accelerates to 2.2 percent in 2019 as local inflation recedes and nominal income growth picks up. It then dips to 2.1 percent in 2020 with the rebound in local inflation.⁷

More highlights within the November released RSQE forecast are reported as, “Driven largely by higher gas prices, local inflation picks up from 2.1 percent in 2017 to 2.5 percent this year, on pace with the U.S. inflation rate. We see local inflation moderating to 1.9 percent next year and 2.0 percent in 2020, as the recent increase in energy prices recedes into the rearview mirror.

Nominal personal income growth accelerates by two-tenths of a percentage point to 3.76 percent in 2018, helped by strong growth in wage and salary income and a large increase in transfer income. Income growth stays roughly steady in 2019 before jumping to 4.3 percent in 2020. The acceleration that year is driven by a pickup in the wage and salary, proprietors’, and property components of income, reflecting in part the tight labor market and higher interest rates that we foresee.

We also see the growth of real disposable income ticking up two-tenths of a percentage point from 2017 to 2018. Its growth in 2018 is boosted by the decreased burden of federal taxation resulting from the TCJA of 2017. We see real disposable income growth staying roughly flat next year, as local inflation recedes but the boost from the tax cuts fades. Real income growth

⁷ Ibid



jumps by six-tenths of a percentage point in 2020, reflecting faster nominal income growth and stable inflation.”⁸

The most notable activity in the Ann Arbor real estate market over the last several years has been the addition of several multi-story apartment towers, the lion’s share of which cater to students, and as saturation occurs, to young professionals. The CBD has experienced a surge in new development of large- and small-scale luxury condominiums. While such development fosters dense populace in the area, affecting a greater need for goods and services, new development in the city’s central business district and South Main Street also displaces small shops because of high values and lease rates.

While this section typically discusses current national, regional, and local trends for the type of property under valuation, the subject property is analyzed as hypothetically vacant, not suitable for comparison to larger, investment-grade, properties. The property is suitable for intense development and there are no national or regional trends for such properties.

The table on the following page summarizes current trends in the local apartment market within a two-mile radius of the subject.

<i>Two-Mile Radius Market Summary</i>	
Buildings	Apt-All Bed 420
Rentable Building Unit	12,323
Vacancy	
QTD 2019	4.90%
3Q 2018	4.20%
3Q 2017	3.10%
3Q 2016	2.70%
3Q 2015	4.30%
Typical Office Asking Rent	Rent/Unit
QTD 2019	\$1,690
3Q 2018	\$1,694
3Q 2017	\$1,655
3Q 2016	\$1,555
3Q 2015	\$1,560

Source: CoStar

⁸ Ibid



Apartment vacancies within the area are at 4.90 percent, up slightly from early 2015. Apartment rents for one-, two-bedroom and efficiencies average \$1,690 per unit, up slightly from third quarter 2015.

The City remains one of the most stable communities in the area owing to the presence of the University of Michigan and the University of Michigan Medical Center. The appraisal property's location—peripheral, but convenient, to the University of Michigan and Ann Arbor's Downtown Central Business District—is considered suitable for a variety of users, depending of the zoning parameter. The past few years evidence significant demand for redevelopment.

Highest and Best Use of Property

As defined by the Appraisal Institute, the highest and best use is

The reasonably probable and legal use of vacant land or an improved property, which is physically possible, appropriately supported, financially feasible, and that results in the highest value.⁹

The use to which land can be put and the intensity to which it can be developed have a direct bearing on its value. The purpose of the highest and best use analysis, therefore, is to identify the most probable and profitable use of a property so that value may be estimated predicated upon such use.

This definition reflects the importance of determining the most productive use of a property as it relates to value. Certain criteria—physically possible, legally permissible, financially feasible, and maximally productive—are considered in order to determine its highest and best use.

A property is analyzed both “As Improved” and “As Though Vacant,” in consideration of a premise which states “as long as the value of the property as improved is greater than the value of the land as though vacant, the highest and best use is the use of the property as improved.” The analysis addresses the property as hypothetically vacant and the as improved analysis is not considered.

⁹ Appraisal Institute, *The Appraisal of Real Estate*, Eleventh Edition, Chicago, Illinois, p. 275.



As Though Vacant

All physical characteristics of the site, with special consideration for any features which might preclude or enhance development of the property for a particular type of use are examined. Based on the assumed zoning scenarios and availability of utilities, the property is capable of supporting office and/or residential development, as allowed by code. Soils are presumed suitable for development. The property comprises 4.09 gross acres. Topography is generally level. All municipal utilities are available to the property. The property is typical of other office and residential sites in the area, although a property of this size is generally scarce. The site has sufficient frontage and exposure on South Industrial Highway. To the best of the appraisers' knowledge, information, and belief, there are no physical characteristics of the property that would interfere with, preclude, or enhance normal development potential. Based on the above physical characteristics, the property is suitable for development to numerous uses permitted under the assumed office and multiple-family zoning designations.

Legal restrictions, as they apply to the subject property, involve the public restrictions of the assumed zoning in addition to utility easements and road right-of way easements. The assumed office designation permits a variety of office and some residential uses. The assumed multiple-family designation permits a variety of multiple-family uses with varying density allowances. The property is appraised as though vacant, excepting preservation of a water tower facility with assumed easement access; ready for development without environmental hazards; and, is not subject to any uncited adverse easements or deed restrictions. There are no known private deed restrictions that affect the subject or the surrounding sites. The potential uses that meet the requirements of legal permissibility are most uses allowed under the varying codes assumed herein. Future office or multiple-family development in the fee simple interest appear to have most viability, under the zoning parameters hypothetically presumed herein.

Financial feasibility considers a use that will produce an income or return which is equal to or greater than the amount needed to satisfy operating expenses in addition to a return on investment. Of the permitted uses to the property, all would likely produce income greater than that needed to satisfy operating expenses, although it is difficult to determine with certainty lacking benefit of plans, specifications, or costs for a proposed project. There are ample instances of raze and redevelop in urban Ann Arbor, owing to scarcity of development land.

There is currently a resurgence of luxury condominium development on small sites for urban living use, while student high-rise projects on larger sites have recently entered the market with more development proposed in the CBD. The subject lies in a logical path of



development opportunity, as projects expand into more outlying areas of the city, owing to scarcity of land.

Of the possible uses to the appraisal property as though vacant, multiple-family development as allowed by varying codes assumed herein would produce highest and best use of the property.

Methods of Valuation and Dates of Report

There are three generally recognized approaches to valuing real property: The cost approach, the sales comparison approach, and the income approach. Each of the three approaches has inherent strengths. In selection of the procedures and techniques to be used in a valuation, the appraisers must consider the appropriateness of the valuation approaches relative to the nature of the property under valuation to determine which approaches will produce supportable estimates of market value. Each method and its applicability in the instant analysis are discussed below.

Discussion of the Cost Approach and Its Appropriateness in this Analysis

In the cost approach, the cost of replacement or reproduction of the buildings and all other improvements to the land are estimated. Depreciation, if any, from all causes is then estimated and deducted from reproduction or replacement cost to give net depreciated reproduction or replacement cost of improvements. To this is added land value to give an indication of total property value by the cost approach. This approach is most useful for valuing property with new or proposed improvements that utilize a site to its most intense use. In valuing income-producing properties, this approach generally sets an upper limit to value. This is based on the tenet known in appraising as the principle of substitution which, “. . . states that a prudent purchaser would pay no more for real property than the cost of acquiring or developing an equally desirable substitute. . . .”¹⁰

This approach is most useful for valuing property with new or proposed improvements that utilize a site to its most intense use. Because the appraisers are analyzing the property as though vacant, the cost approach is considered inappropriate.

¹⁰*Real Estate Appraisal Terminology*, The American Institute of Real Estate Appraisers and the Society of Real Estate Appraisers, 1975, Ballinger Publishing Company, Cambridge, Massachusetts, P. 201.



Discussion of the Income Approach and Its appropriateness in this Analysis

The income capitalization approach assumes that the value of the property arises from its potential for producing income to an investor. First, gross income, operating expenses and net operating income before allowances for depreciation charges and debt service are estimated. The resulting estimated net operating income (NOI or I_0) is then capitalized into an indication of value using a market related capitalization rate.

The appraisal property has a highest and best use as development land and the income approach is not generally appropriate for the valuation of raw development land and will not be utilized in the analysis.

Discussion of the Sales Comparison Approach and its Appropriateness in this Analysis

The sales comparison approach, is defined as "[an] appraisal technique in which the market value estimate is predicated upon prices paid in actual market transactions (...) It is a process of correlation's and analysis of similar recently sold properties. . ." ¹¹

The sales comparison approach is typically used in valuing vacant properties, as predicated for the subject, when there is adequate and reliable sale information of comparable properties. Sales of such transactions provide viable market indicators from which value may be deduced. The sales comparison approach will be employed in the analysis of the appraisal property as though vacant.

Summary

The sales comparison approach to value will be utilized separately in the analyses of the subject property as though hypothetically vacant, assuming R4B, R4D and Office zoning parameters.

Effective Dates

The date of the appraisal report is September 25, 2019. The effective current date of valuation is September 11, 2019, the date of property inspection.

¹¹AIREA, p. 30.



Scenario 1 R4B Sales Comparison Approach

Scenario 1 is predicated upon Hypothetical Condition that the property is zoned R4B, Multiple-Family Dwelling District and ready for development as proposed. The R4B district allows a minimum lot area per dwelling area of 2,900 square feet, equating to a density allowance to 15 units per acre (UPA). After consideration for preservation of the water tower, open space and parking requirements, the 4.09-acre site is proposed to support 52 820-square-foot apartment units in a three-story building comprising 50,013 gross square feet, with 104, or two surface parking spaces per unit.

The sales comparison approach is based on the principle of substitution. This approach has greatest value in appraisal situations involving land or improved properties within a particular area, having common elements and similar amenities. In the absence of sales with sufficient similarity to allow direct comparison, other reasonably similar improved properties are considered, because they provide a range of unit prices within which the current real estate market is operating and within which the appraisal property would be expected to sell.

Several units of comparison can be used depending upon the type of property under valuation. A typical unit of comparison most recognized by the market for multiple-family development land is the price per proposed or developed number of units. This is the unit of comparison used in the instant analysis. The significant items of comparisons are the transaction and physical items shown as follows:

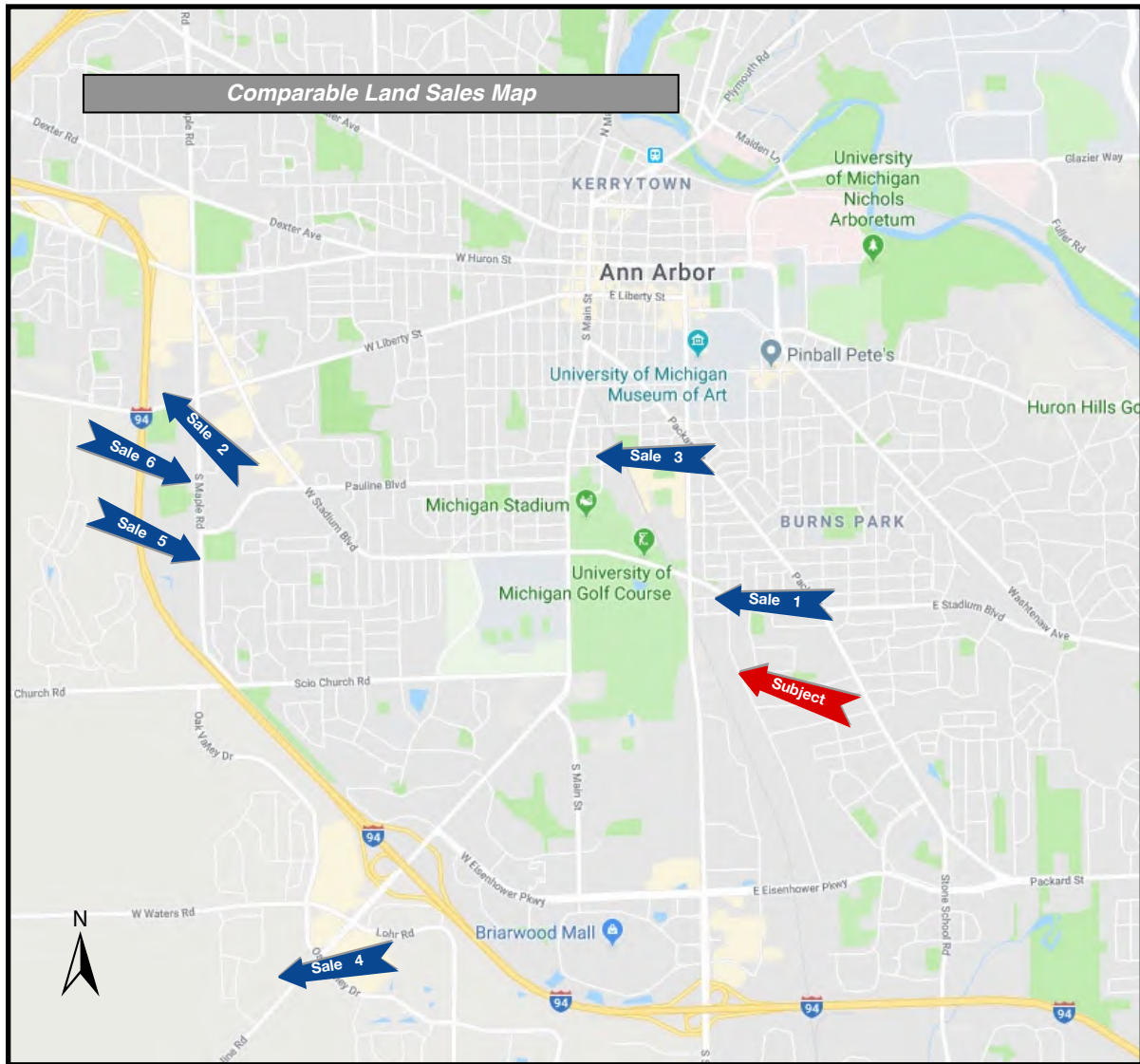
Transaction Items

- Buyer Expenditures
- Property Rights
- Financing Terms
- Conditions Of Sale
- Market Conditions

Physical Items

- Location
- Topography/ Cover
- Zoning
- Utilities
- Development Potential
- Number of Units

The five sales considered to best represent the subject market are provided in detail and are summarized and adjusted at "Scenario 1, R4B Hypothetical Condition: Land Sales Adjustment Grid." A map locating the comparables relative the the subject property as well as detail of the comparable sales are put forth on the following pages and precede the presentation of the grid table.





Comparable 1

MARKET DATA

Vacant Multi-Family Development Land Sale



Photograph Date:

Location: 814, 818, 824 and 830 Henry Street, Ann Arbor, Washtenaw County, MI

Sale Date: July 2018

Sale Price: \$1,601,000 Cash

Purchaser: Prentice Partners of Ann Arbor LLC

Seller: Copi Samuel M, Jam II Investments, LLC, MacMullan Marcia & Donald Trust

Site: These sites are located on the southwest corner of Henry Street, E Stadium Blvd, and South Industrial intersection. The parcels total 0.58 acres or 25,264.8 square feet. The individual sites are rectangular in shape. The three rental houses total 6,048 sf of GBA.

Zoning: R4C, Multiple Family

Utilities: All Municipal

Tax Code: 09-09-33-316-010, -009, -008, -007

Occupancy: Vacant

Comments: The buyer plans to demolish the existing three rental houses. Estimated demo costs are \$30,000. The assemblage is proposed for a \$5.5 million student apartment complex. There will be 26,000 square feet in 11 3-story buildings with 6 bedrooms for a total of 66 beds. There will also be 18 parking spaces and 20 bicycle parking spaces as well. Individual sales were:

814 Henry	7/25/2018	\$351,000	Jam II (Deed 5267/786)
818 Henry	7/18/2018	\$625,000	Copi (Deed 5266/702)
824-830 Henry	3/27/2018	\$625,000	MacMullan (Deed 5251/186)

Source: MLive, Ann Arbor Assessor's Records

Indicators: \$63.37 per square foot

\$62.73 per square foot of proposed building area, including demolition



Comparable 2

MARKET DATA

Vacant Multi-Family Development Land Listing



Photograph Date:

Common Name: Liberty Townhomes

Location: 2658 West Liberty Street, Ann Arbor, Washtenaw County, Michigan

Sale Date: September 2019

Sale Price: \$1,650,000 Cash or Equivalent

Purchaser: Active

Seller: MCP Liberty Devco., LLC (Trowbridge Companies)

Site: The subject site is irregular-shaped and contains 4.66 acres, or 202,990. Topography is generally level with the western property line abutting the I-94 expressway. According to City Engineer, Troy Baughman, there are no connection charges slated for this parcel. Any additional offsite expense for development is not known. The parcel is in the Ann Arbor School District.

Zoning: R4B, Multiple Family Residential (Max Density 15 Units / Acre)

Utilities: All Municipal

Tax Code: 09-08-25-400-015

Exposure Time: 10 months

Occupancy: Vacant

Comments: The property sold in March 2017 for \$650,000, or \$3.20 per square foot of land area at which time the buyer acquired the property with 68 preliminarily approved units, but revised to 52 townhouse style rental units with attached garages.

The property is currently listed for \$1,650,000 and marketed as a development opportunity with potential for 72 apartment units among six three-story buildings.

Source: Jack Johns, CBRE, Inc., (248) 351-2018

Indicators: \$ 8.13 per square foot

\$ 354,077 per acre

\$ 22,917 per unit



Comparable 3

MARKET DATA

Vacant General Commercial Sale



Photograph Date:

Location: Block Bounded by E. Hoover, Brown, Green and E. Davis, Ann Arbor, Washtenaw

Sale Date: June 2019

Sale Price: \$6,800,000 Cash or Equivalent

Purchaser: Hoover Greene Owner, LLC

Seller: Precision Properties, LLC and others

Site: Eighteen contiguous properties together are bounded by East Hoover and East Davis Avenues and Brown and Greene Streets, forming a rectangular shape, encompassing 1.63 gross acre, which appears to be net of the road rights-of-way, with ample road frontage on all arteries. Coverage is dominated by building and site improvements.

Zoning: C2B, Business Service and R4C, Multiple-Family Dwelling District

Utilities: All Municipal

Tax Code: 09-09-32-110- multiple three-digit end numbers

Occupancy: 100% Occupied

Comments: The entire block, comprising 1.63 acres, (18 parcels) sold to Redico, a developer based in Southfield, MI for \$6,800,00, or \$95.77 per square foot of land area. A contract was signed in late 2017 and closed in June 2019. The developer plans a four-story, mixed-use, 141,720-square-foot facility budgeted for \$26 million representing 198.7% FAR. The entire block is being rezoned to commercial, presumably C2B allowing 200% FAR. The price per planned FAR indicator is \$48 per square foot of proposed building area.

Sept. 2019 Redico website describes 167-unit multi-family development with retail and underground parking.

Source: Assessment Record/ Confidential

Indicators: \$95.75 per square foot

\$4,171,779 per acre

\$40,719 per planned multi-family units (net of retail feature)



Comparable 4

MARKET DATA

Vacant Residential Mix Use Sale



Photograph Date:

Location: 3240 and 3300 Ann Arbor-Saline Rd., Pittsfield Township, Washtenaw County,

Sale Date: March 2018

Sale Price: \$6,882,500 Cash to mortgage

Purchaser: Uptown Ann Arbor, LLC

Seller: Tracey E. Coates / Bruce & Stephanie Benz

Site: The two-parcel assemblage is irregular in shape, with 15.08 gross acres or 656,885 gross square feet. The site has 406 feet of frontage on Ann Arbor-Saline Road and about 454 feet of frontage along Oak Valley Drive.

Zoning: FB, Form Based Ann Arbor-Saline Area District - Site Type A

Utilities: All Municipal

Tax Code: L-12-07-200-014, L-12-07-200-021

Exposure Time: 44 months

Occupancy: Vacant

Comments: The two parcels were purchased in March and June of 2018 to construct the Uptown Ann Arbor apartment and retail mixed-use development, consisting of 197 apartment units and 17,220 square feet of retail space comprised of 9 units.

As of September 2019 assessment records show the property identified as 3300 Ann Arbor-Saline Road (L-12-07-200-025) with total building area of 171,949 square feet among eight buildings. The price per square foot of building area is \$40.04.

Source: GAC #19097

Indicators: \$ 10.48 per square foot

\$ 456,399 per acre

\$ 33,410 per unit

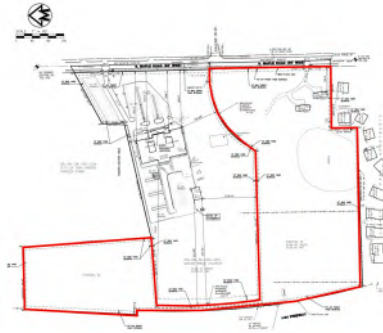
\$40.04 per square foot of building area



Comparable 5

MARKET DATA

Vacant Multi-Family Development Land Sale



Photograph Date:

Common Name: Midtown Ann Arbor

Location: WS S. Maple Road at Pauline Boulevard, Ann Arbor, Washtenaw County, MI

Sale Date: December 2017

Sale Price: \$4,880,000 Cash to mortgage

Purchaser: Midtown Ann Arbor, LLC

Seller: Grace Bible Church

Site: The irregular shaped site contains 20.46 gross or 20 net acres with 608.34 feet of frontage along the west side of S. Maple Road and a depth along the southern boundary of 1,141 feet. Topography is rolling (representing the highest elevation within the city) and partially wooded. Site configuration is such that the northern pod, encompassing rough 5 acres, will be mitigated for wetland development, thus, allowing clustering of development of the southern region and the replacement of scattered low-quality wetlands. Soils are Miami loam over the southern region.

Zoning: R4B, Multiple Family Residential District (15 UPA)

Utilities: All Municipal

Tax Code: 09-08-36-100-009

Occupancy: Vacant

Comments: With initial municipal review, no formal submission for preliminary plan approval has been made. The initial site layout featured 256 side-by-side and stacked condominium units, for a net density of 12.80 units-per-acre. However, given tight configuration, initial planning suggests a reduction of developable units. **As of 3/20/19: Midtown Ann Arbor Condominiums proposal under review for 253 units in 14 buildings with 385,685 square feet of buildings area.**

As part of sale agreement, Grace Bible Church will allow for development of an above ground storm water detention basin within its western region, paid for by Midtown Ann Arbor.

Two houses will be demolished in conjunction with development, with an estimated expense of \$20,000, which is not included in the sale price.

Source: File 18720, City of Ann Arbor Assessor

Indicators: \$244,000 per net acre

\$5.60 per net square foot

\$19,289 per unit

\$12.65 per square foot of proposed buildings area, before demolition

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Comparable 6

MARKET DATA

Vacant Multi-Family Development Land Sale



Photograph Date:

Common Name: Under Construction for Hickory Way Apartments

Location: 1110 and 1132 South Maple Road (to Become 1120 South Maple), Ann Arbor,

Sale Date: March 2018

Sale Price: \$995,000 Cash to mortgage

Purchaser: Avalon Nonprofit Housing Corporation

Seller: Harry Gable Jr., and Erik and Mary Hansen

Site: Two contiguous sites, together configure to an elongated rectangle and contain 4.937 gross acres, with 178.26 feet of frontage on the west side of South Maple Road, between Adrienne Drive and St. Charles Street, north of West Liberty Street. The maximum depth of the site is 1,206.84 feet. Topography is level and coverage consists of woodlands and two older homes dating to 1948, together comprising 2,803 square feet. Estimated cost to demolish the non-contributory improvements is \$20,000.

Zoning: R4B, Multiple-Family Dwelling District (15 UPA)

Utilities: All Municipal

Tax Code: 09-08-36-100-010 and -011

Occupancy: Owner Occupied

Comments: As of March 2019, the property is under construction for development to a two phase 70-unit affordable housing apartment complex comprising 92,281 square feet, housed in two three-story buildings with elevators and 105 parking spaces, equating to 1.5 spaces per unit. Thus the project equates to 14 UPA. The first phase with 34 units has received an \$8 million tax credit for Michigan State Housing Development Authority (MSHDA) and other funding is in process.

The transactions from separate sellers occurred on the same day.

Source: Assessment Record, M-Live, Avalon Housing, (734) 663-5858

Indicators: \$ 201,539 per acre

\$ 4.63 per square foot

\$ 14,214 per unit

\$10.78 per square foot of proposed buildings area, before demolition



"Scenario 1, R4B Hypothetical Condition: Land Sales Adjustment Grid"

	Subject	Sale 1	Sale 2	Sale 3	Sale 4	Sale 5	Sale 6
Sale Price		\$1,601,000	\$1,650,000	\$6,800,000	\$6,882,500	\$4,880,000	\$995,000
Date of Sale		Jul 1, 2018	Active List	Jun 1, 2019	Mar 1, 2018	Dec 1, 2017	Mar 1, 2018
Buyer Expenditures		\$30,000	\$0	\$200,000	\$0	\$20,000	\$20,000
Property Rights Transferred		0%	0%	0%	0%	0%	0%
Conditions Of Sale		0%	0%	0%	0%	0%	0%
Financing		0%	0%	0%	0%	0%	0%
Market Conditions	0.3333%	4.67%	-10.00%	1.00%	6.00%	7.00%	6.00%
Adjusted Price		\$1,707,113	\$1,485,000	\$7,070,000	\$7,295,450	\$5,243,000	\$1,075,900
Site Size In Units	52	38	72	167	206	253	70
Adjusted Price Per Unit		\$44,924	\$20,625	\$42,335	\$35,415	\$20,723	\$15,370
Location	S. Industrial	Henry, E. Stadium	W. Liberty, I-94	E. Hoover, Brown, Green	Ann Arbor-Saline	S. Maple	S. Maple
Township	Ann Arbor	Ann Arbor	Ann Arbor	Ann Arbor	Pittsfield Twp	Ann Arbor	Ann Arbor
Adjustment		-10.0%	0.0%	-20.0%	-10.0%	0.0%	0.0%
Topography/ Cover	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Wood
Adjustments		0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
Zoning	R4B (15 UPA) Proposed for 12.71 UPA	R4C (20 UPA) Prop for 18.97 UPA	R4B (15 UPA) Marketed for 15.45 UPA	C2B, R4C to C2B Proposed for 102 UPA	FB Proposed for 13.66 UPA	R4B (15 UPA) Proposed for 12.37 UPA	R4B (15 UPA) Approved for 14 UPA
Adjustment		0.0%	0.0%	-10.0%	-5.0%	0.0%	0.0%
Utilities	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal
Adjustment		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Development Potential	Water Tower, RR	No Hindrance	Shape	No Hindrance	No Hindrance	25% Wetland Mitigation	Shape
Adjustment	Presumed Easement /View Deficit	-5.0%	0.0%	-5.0%	-5.0%	10.0%	0.0%
Number of Units	52	38 Equivalent	72	167	206	256	70
Adjustment		0.0%	0.0%	5.0%	10.0%	15.0%	0.0%
Gross Adjustments		15.0%	0.0%	40.0%	30.0%	25.0%	10.0%
Net Adjustments		-15.0%	0.0%	-30.0%	-10.0%	25.0%	10.0%
Adjusted Sale Price Per Unit		\$38,185	\$20,625	\$29,635	\$31,873	\$25,904	\$16,907

Index of Comparable Land Sales

1. 814, 818, 824 and 830 Henry Street, Ann Arbor
2. 2658 West Liberty Street, Ann Arbor
3. 145, 147 & 151 E. Hoover; 917 & 919 Brown; and 910 Green, Ann Arbor
4. 3240 and 3300 Ann Arbor-Saline Road, Pittsfield Township
5. WS South Maple Road, Ann Arbor
6. 1110 and 1132 South Maple Road, Ann Arbor

High	\$38,185
Mean	\$27,188
Median	\$27,769
Low	\$16,907



Adjustments:

The appraisers note that Sale One is being developed with 11, six-bedroom units which are intended for student housing. Typical average bedroom count is 1.5 to 2.0 beds per unit. Using a 1.75 ratio yields approximately 38 units as an equivalent estimate for this analysis.

Buyer Expenditures: Buyer expenditures include the costs incurred by the buyers immediately following the purchase of a property. Sales One, Three, Five and Six are adjusted for various buyer expenses. The remaining presented data do not require adjustment.

Property Rights Conveyed: The fee simple title to the subject property is examined. The presented sales conveyed with fee simple title interest and no adjustment is applied.

Conditions of Sale: The consummated sales are reported to be arm's-length transactions. Therefore, no adjustments are warranted.

Terms of Sale/Financing: All sales were purchased on the basis of cash or presumed cash equivalent terms for this market. Thus, no adjustments are necessary.

Market Conditions: The consummated sales occurred within the past 30 months of the current date of valuation. As discussed in the "Current Market Conditions and Trends" subsection of this report, the development land sector is trending upward and adjustment is predicated upon four percent per annum, or 0.003333 percent per month, for those properties located outside of Ann Arbor's CBD. Downward adjustment is applied to Comparable Two, an active listing, in consideration of negotiation inherent to real estate transactions.

Location: Location adjustments are made in consideration of visibility characteristics, traffic patterns, accessibility, local economies, demographic trends, and neighborhood real estate values. The property has good visibility and exposure characteristics in an outlying mixed-use area of the city, suitable for rejuvenation. Downward adjustment is applied to Comparable One, close to campus and planned for student housing; Comparable Three, identifying with demand in the Michigan Stadium area, close to campus and CBD; and to Comparables Four, located in a high traffic area, convenient to interstate access. No adjustment is applied to the remaining presented data on an overall basis, having similar or offsetting locational characteristics.

Topography and Cover: The subject property features level topographical characteristics with predominantly clear coverage, similar to Comparables One through Five, for which no



adjustment is applied. Upward adjustment is applied to Comparable Six, with a wooded site, which would require clearing.

Zoning: Scenario 1 is predicated upon the assumption that the property is zoned R4B, Multiple-Family Dwelling district, allowing a development density of 15 units per acre, proposed for development to 52 units equating to 12.71 UPA. Downward adjustment is applied to Comparable Three, to be rezoned from mixed designations to all C2B, allowing 200 percent FAR, proposed for 102 UPA and some retail space, which commands higher rent. No adjustment is applied to the remaining presented data, with variable zoning designations, proposed for similar density levels and use. Sale Four has a similar density but also allows some retail use, for which downward adjustment is applied. No adjustment is applied to the remaining presented data, with variable zoning designations, proposed for similar density levels and use.

Utilities: All municipal utilities are available to the subject property and to the presented data and no adjustment is warranted.

Development Potential: The appraisal property will be hindered by a water tower improvement, with presumed easement access and view deficit. It is also adjacent to a railroad right-of-way. Downward adjustment is applied to Comparables One, Three and Four, without significant hindrances. No adjustment is applied to Comparables Two and Six, with elongated shape hindrance. Upward adjustment is applied to Comparable Five after consideration of a 25 percent wetland mitigation hindrance.

Number of Units: As predicated in Scenario 1, the subject is presumed approved for development to 52 apartment units. A tenet in the real estate industry indicates that as the number of units increases, the value per unit decreases. The presented data are proposed for development to 11 to 256 units. In the case of Comparable One, 11 units with 66 beds is an atypical configuration. Based upon average bedroom to unit ratios found in the market, the development equates to about 38 units for analysis purposes and no adjustment is applied. No adjustment is applied to Comparables Two and Six. Variable upward adjustment is applied to Comparables Three through Five, proposed for higher unit count.

Summary: After all adjustments, the comparable land sale prices range from \$16,907 to \$38,185, with a mean of \$27,188 and a median indicator of \$27,769 per unit. Comparable Six adjusts to the low end of the spectrum. Comparable One adjusts to the high end of the spectrum and is most proximate to the subject, but represents a typical unit equivalency, based upon bedroom count. If the high and low adjusted indicators are discarded, the remaining indicators average \$27,009 per unit. The appraisers resolve to a market indicator of \$27,000 per unit. Thus,



52 units @ \$27,000 per unit = \$1,400,000 (rd.)

It is the appraisers' opinion that the current market value of the appraisal property, based upon hypothetical condition associated with Scenario 1 assuming an R4B, Multiple-Family Dwelling District zoning designation and development proposal, pertaining to fee simple title interest, as of September 11, 2019, is:

One Million Four Hundred Thousand (\$1,400,000) Dollars

Scenario 2 R4D Sales Comparison Approach

Scenario 2 is predicated upon Hypothetical Condition that the property is zoned R4D, Multiple-Family Dwelling District and ready for development as proposed. The R4D district allows a minimum lot area per dwelling area of 1,740 square feet, equating to a density allowance to 25 units per acre (UPA). After consideration for preservation of the water tower, open space and parking requirements, the 4.09-acre site is proposed to support 85 apartment units in a five-story building comprising 87,000 gross square feet, with 170, or two parking spaces per unit, 51 of which would be under building and the remainder of which would be surface lots.

The appraisers refer the reader to the foregoing analysis of Scenario 1, wherein the method, technique, data, and adjustments and conclusion are the same as that for Scenario 2, and are not reiterated here. Following is a discussion of the grid and conclusion to value for Scenario 2 analysis.



"Scenario 2, R4D Hypothetical Condition: Land Sales Adjustment Grid"

	Subject	Sale 1	Sale 2	Sale 3	Sale 4	Sale 5	Sale 6
Sale Price		\$1,601,000	\$1,650,000	\$6,800,000	\$6,882,500	\$4,880,000	\$995,000
Date of Sale		Jul 1, 2018	Active List	Jun 1, 2019	Mar 1, 2018	Dec 1, 2017	Mar 1, 2018
Buyer Expenditures		\$30,000	\$0	\$200,000	\$0	\$20,000	\$20,000
Property Rights Transferred		0%	0%	0%	0%	0%	0%
Conditions Of Sale		0%	0%	0%	0%	0%	0%
Financing		0%	0%	0%	0%	0%	0%
Market Conditions	0.3333%	4.67%	-10.00%	1.00%	6.00%	7.00%	6.00%
Adjusted Price		\$1,707,113	\$1,485,000	\$7,070,000	\$7,295,450	\$5,243,000	\$1,075,900
Site Size In Units	85	38	72	167	206	253	70
Adjusted Price Per Unit		\$44,924	\$20,625	\$42,335	\$35,415	\$20,723	\$15,370
Location	S. Industrial	Henry, E. Stadium	W. Liberty, I-94	E. Hoover, Brown, Green	Ann Arbor-Saline	S. Maple	S. Maple
Township	Ann Arbor	Ann Arbor	Ann Arbor	Ann Arbor	Pittsfield Twp	Ann Arbor	Ann Arbor
Adjustment		-10.0%	0.0%	-20.0%	-10.0%	0.0%	0.0%
Topography/ Cover	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Wood
Adjustments		0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
Zoning	R4D (25 UPA) Proposed for 20.78 UPA	R4C (20 UPA) Prop for 18.97 UPA	R4B (15 UPA) Marketed for 15.45 UPA	C2B, R4C to C2B Proposed for 102 UPA	FB Proposed for 13.66 UPA	R4B (15 UPA) Proposed for 12.37 UPA	R4B (15 UPA) Approved for 14 UPA
Adjustment		0.0%	0.0%	-10.0%	-5.0%	0.0%	0.0%
Utilities	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal
Adjustment		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Development Potential	Water Tower, RR	No Hindrance	Shape	No Hindrance	No Hindrance	25% Wetland Mitigation	Shape
Adjustment	Presumed Easement /View Deficit	-5.0%	0.0%	-5.0%	-5.0%	10.0%	0.0%
Number of Units	85	38 Equivalent	72	167	206	256	70
Adjustment		0.0%	0.0%	5.0%	10.0%	15.0%	0.0%
Gross Adjustments		15.0%	0.0%	40.0%	30.0%	25.0%	10.0%
Net Adjustments		-15.0%	0.0%	-30.0%	-10.0%	25.0%	10.0%
Adjusted Sale Price Per Unit		\$38,185	\$20,625	\$29,635	\$31,873	\$25,904	\$16,907

Index of Comparable Land Sales

1. 814, 818, 824 and 830 Henry Street, Ann Arbor
2. 2658 West Liberty Street, Ann Arbor
3. 145, 147 & 151 E. Hoover; 917 & 919 Brown; and 910 Green, Ann Arbor
4. 3240 and 3300 Ann Arbor-Saline Road, Pittsfield Township
5. WS South Maple Road, Ann Arbor
6. 1110 and 1132 South Maple Road, Ann Arbor

High	\$38,185
Mean	\$27,188
Median	\$27,769
Low	\$16,907



Summary: After all adjustments, the comparable land sale prices range from \$16,907 to \$38,185, with a mean of \$27,188 and a median indicator of \$27,769 per unit. Comparable Six adjusts to the low end of the spectrum. Comparable One adjusts to the high end of the spectrum and is most proximate to the subject, but represents a typical unit equivalency, based upon bedroom count. If the high and low adjusted indicators are discarded, the remaining indicators average \$27,009 per unit. The appraisers resolve to a market indicator of \$27,000 per unit. Thus,

$$85 \text{ units @ } \$27,000 \text{ per unit} = \$2,295,000 \text{ (rd.)}$$

It is the appraisers' opinion that the current market value of the appraisal property, based upon hypothetical condition associated with Scenario 2 assuming an R4D, Multiple-Family Dwelling District zoning designation and development proposal, pertaining to fee simple title interest, as of September 11, 2019, is:

Two Million Two Hundred Ninety-Five Thousand (\$2,295,000) Dollars

Scenario 3 Office Sales Comparison Approach

Scenario 3 is predicated upon Hypothetical Condition that the property is zoned O, Office District and ready for development as proposed. The Office district allows a density of 75 percent floor area ratio (FAR). After consideration for preservation of the water tower, open space and parking requirements, the 4.09-acre site is proposed to support 141 apartment units in a four-story building comprising 133,543 gross square feet, with 141, or one surface parking space per unit.

The appraisers refer the reader to the foregoing analysis of Scenario 1, wherein the method, technique, data, and adjustments that are the same as that for Scenario 3, are not reiterated here. Following is a discussion of differing adjustments, the grid and conclusion to value for Scenario 3 analysis.

Zoning: Scenario 3 is predicated upon the assumption that the property is zoned O, Office district, allowing a development density of 75 percent FAR. Downward adjustment is applied to Comparable Three, to be rezoned from mixed designations to all C2B, allowing 200 percent FAR, proposed for 102 UPA and some retail space, which commands higher rent. No adjustment is applied to the remaining presented data, with variable zoning designations, proposed for similar density levels and use. Sale Four has a similar density but also allows some retail use, for which downward adjustment is applied. No adjustment is applied to the



remaining presented data, with variable zoning designations, proposed for similar density levels and use.

Number of Units: As predicated in Scenario 3, the subject is presumed approved for development to 141 apartment units. A tenet in the real estate industry indicates that as the number of units increases, the value per unit decreases. The presented data are proposed for development to 11 to 256 units. In the case of Comparable One, 11 units with 66 beds is an atypical configuration. Based upon average bedroom to unit ratios found in the market, the development equates to about 38 units for analysis purposes and downward adjustment is applied. Downward adjustment is applied to Comparables One, Two and Six, planned for lesser units. No adjustment is applied to Comparable Three, planned for a similar unit count. Variable upward adjustment is applied to Comparables Four and Five, proposed for higher unit count.



"Scenario 3, Office Hypothetical Condition: Land Sales Adjustment Grid"

	Subject	Sale 1	Sale 2	Sale 3	Sale 4	Sale 5	Sale 6
Sale Price		\$1,601,000	\$1,650,000	\$6,800,000	\$6,882,500	\$4,880,000	\$995,000
Date of Sale		Jul 1, 2018	Active List	Jun 1, 2019	Mar 1, 2018	Dec 1, 2017	Mar 1, 2018
Buyer Expenditures		\$30,000	\$0	\$200,000	\$0	\$20,000	\$20,000
Property Rights Transferred		0%	0%	0%	0%	0%	0%
Conditions Of Sale		0%	0%	0%	0%	0%	0%
Financing		0%	0%	0%	0%	0%	0%
Market Conditions	0.3333%	4.67%	-10.00%	1.00%	6.00%	7.00%	6.00%
Adjusted Price		\$1,707,113	\$1,485,000	\$7,070,000	\$7,295,450	\$5,243,000	\$1,075,900
Site Size In Units	141	38	72	167	206	253	70
Adjusted Price Per Unit		\$44,924	\$20,625	\$42,335	\$35,415	\$20,723	\$15,370
Location	S. Industrial	Henry, E. Stadium	W. Liberty, I-94	E. Hoover, Brown, Green	Ann Arbor-Saline	S. Maple	S. Maple
Township	Ann Arbor	Ann Arbor	Ann Arbor	Ann Arbor	Pittsfield Twp	Ann Arbor	Ann Arbor
Adjustment		-10.0%	0.0%	-20.0%	-10.0%	0.0%	0.0%
Topography/ Cover	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Clear	Level/ Wood
Adjustments		0.0%	0.0%	0.0%	0.0%	0.0%	10.0%
Zoning	O (75% FAR) Proposed for 34.47 UPA	R4C (20 UPA) Prop for 18.97 UPA	R4B (15 UPA) Marketed for 15.45 UPA	C2B, R4C to C2B Proposed for 102 UPA	FB Proposed for 13.66 UPA	R4B (15 UPA) Proposed for 12.37 UPA	R4B (15 UPA) Approved for 14 UPA
Adjustment		0.0%	0.0%	-10.0%	-5.0%	0.0%	0.0%
Utilities	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal	All Municipal
Adjustment		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Development Potential	Water Tower, RR	No Hindrance	Shape	No Hindrance	No Hindrance	25% Wetland Mitigation	Shape
Adjustment	Presumed Easement /View Deficit	-5.0%	0.0%	-5.0%	-5.0%	10.0%	0.0%
Number of Units	141	38 Equivalent	72	167	206	256	70
Adjustment		-5.0%	-5.0%	0.0%	5.0%	10.0%	-5.0%
Gross Adjustments		20.0%	5.0%	35.0%	25.0%	20.0%	15.0%
Net Adjustments		-20.0%	-5.0%	-35.0%	-15.0%	20.0%	5.0%
Adjusted Sale Price Per Unit		\$35,939	\$19,594	\$27,518	\$30,103	\$24,868	\$16,139

Index of Comparable Land Sales

1. 814, 818, 824 and 830 Henry Street, Ann Arbor
2. 2658 West Liberty Street, Ann Arbor
3. 145, 147 & 151 E. Hoover; 917 & 919 Brown; and 910 Green, Ann Arbor
4. 3240 and 3300 Ann Arbor-Saline Road, Pittsfield Township
5. WS South Maple Road, Ann Arbor
6. 1110 and 1132 South Maple Road, Ann Arbor

High	\$35,939
Mean	\$25,693
Median	\$26,193
Low	\$16,139



Summary: After all adjustments, the comparable land sale prices range from \$16,139 to \$35,939, with a mean of \$25,693 and a median indicator of \$26,193 per unit. Comparable Six adjusts to the low end of the spectrum. Comparable One adjusts to the high end of the spectrum and is most proximate to the subject, but represents a typical unit equivalency, based upon bedroom count. If the high and low adjusted indicators are discarded, the remaining indicators average \$25,521 per unit. The appraisers resolve to a market indicator of \$25,000 per unit. Thus,

$$141 \text{ units @ } \$25,000 \text{ per unit} = \$3,525,000 \text{ (rd.)}$$

It is the appraisers' opinion that the current market value of the appraisal property, based upon hypothetical condition associated with Scenario 3 assuming an O, Office District zoning designation and development proposal, pertaining to fee simple title interest, as of September 11, 2019, is:

Three Million Five Hundred Twenty-Five Thousand (\$3,525,000) Dollars

The preceding value estimate is made subject to the “General Assumptions and Limitations of Appraisal” of this report and to the following “Hypothetical Condition and Extraordinary Assumptions to this Appraisal.”

Hypothetical Condition

1. At the direction of the client, the appraisal property is analyzed in accordance with three development proposals put forth within the body of the text and at exhibit B herein, hypothetically assuming R4B, R4D, Multiple-Family Dwelling or O, Office zoning district scenarios, presuming the property is vacant, excepting preservation of a water tower facility with assumed easement access; ready for development without environmental hazards; and, is not subject to any uncited adverse easements or deed restrictions. The water tower facility is presumed to have no contributing impact other than as a view factor and occupation of physical tower area and assumed easement access, hypothesized to be reflected in the number of units proposed. The tower and presumed easement are assumed to be maintained by the City. Valuation predicated upon any other condition, could impact the value conclusions reported herein.

Extraordinary Assumptions

1. The appraisers have been provided with historical title work pertaining to varying configurations of property, of which the subject has been a part. The documentation



includes an Atwell-Hicks, Inc. survey, dated May 23, 1997, which appears to include an area of land extending from the northwest border of the site, but appears to be excluded from current municipal mapping and legal description. The appraisers have not otherwise been provided with a legal description, building or site plans and have been directed by the client to make an exterior inspection from the street. They have relied upon a legal description, site descriptions and areas culled or deduced from municipal documents. It is an assumption of this report that gross and net site areas, descriptive detail and condition delineated herein roughly conform to actual (hypothetically vacant) conditions; if not, the value conclusions could be impacted; and

2. The appraisers have not been provided with professional soil boring analysis for the appraisal property. Valuation is predicated upon the assumption that the subject soils are suitable for commercial-type construction similar to that proposed or found on surrounding parcels. If such is not the case, the value conclusions could be impacted.

Sales History Analysis

Municipal records indicate the property is owned by the city of Ann Arbor, which entity has owned the property in excess of three years. The appraisers are not aware that the property is currently listed for sale or lease.

Estimated Marketing Period, Exposure Period

As used herein, the definition of exposure time is as follows.

The time a property remains on the market. The estimated length of time the property interest being appraised would have been offered on the market prior to the hypothetical consummation of a sale at market value on the effective date of the appraisal: a retrospective estimate based upon an analysis of past events assuming a competitive and open market. Exposure time is always presumed to occur prior to the effective date of the appraisal...¹²

A discussion with area brokers and review of similar sales in our company database indicates that marketing times can range from six months several years depending on the age, size, and

¹² *The Dictionary of Real Estate Appraisal*, Third Edition, Appraisal Institute, Chicago, IL, 1993, page 126.



location of a facility. Given current market conditions and location of the property, the appraisers consider an exposure time of six to 12 months be a reasonable estimate.

As used herein, the definition of marketing period is as follows.

The time it takes an interest in a real property to sell on the market subsequent to the date of an appraisal. Reasonable marketing time is an estimate of the amount of time it might take to sell an interest in real property at its estimated market value during the period immediately after the effective date of the appraisal...¹³

Marketing time is prospective and takes into account current market conditions. The estimated market value in this report assumes a reasonable exposure time to the market, which is normal for properties of this type. The marketing time is the estimated length of time the property interest under analysis would have been listed on the market prior to a hypothetical sale at the estimated market value on or after the effective date of the appraisal.

Assuming the subject property were aggressively marketed by a competent broker at a listing price close to the estimated market value, the appraisers estimate approximately six to 12 months for the property.

¹³ *Dictionary*, page 220.



ASSUMPTIONS AND LIMITATIONS OF APPRAISAL

This appraisal is for no purpose other than property valuation, and the appraiser(s) is neither qualified nor attempting to go beyond that narrow scope. The reader should be aware that there are also inherent limitations to the accuracy of the information and analysis contained in this appraisal. Before making any decision based on the information and analysis contained in this report, it is critically important to read this entire section to understand these limitations.

Appraisal Is Not A Survey

It is assumed that the utilization of the land and improvements is within the boundaries of the property lines of the property described and that there is no encroachment or trespass unless noted in this appraisal report.

No survey of the property has been made by the appraiser and no responsibility is assumed in connection with such matters. Any maps, plats, surveys, or drawings reproduced and included in this report are intended only for the purpose of showing spatial relationships or location. Sizes and dimensions should not be scaled from them. The reliability of the information contained on any such map or drawing is assumed by the appraiser and cannot be guaranteed to be correct. A surveyor should be consulted if there is any concern on boundaries, setbacks, encroachments, or other survey matters.

The legal description given to the appraiser is presumed to be correct, but it has not been confirmed by a survey.

Appraisal Is Not A Legal Opinion

No responsibility is assumed for matters of a legal nature that affect title to the property nor is an opinion of title rendered. The title is assumed to be good and marketable. The value estimate is given without regard to any questions of title, boundaries, encumbrances, or encroachments. We are not usually provided an abstract of the property being appraised and, in any event, we neither made a detailed examination of it nor do we give any legal opinion concerning it.

It is assumed that there is full compliance with all applicable federal, state, and local environmental regulations and laws unless noncompliance is stated, defined, and considered



in this appraisal report. A comprehensive examination of laws and regulations affecting the subject property was not performed for this appraisal.

It is assumed that all applicable zoning and use regulations and restrictions have been complied with, unless a non-conformity has been stated, defined, and considered in the appraisal report. Information and analysis shown in this report concerning these items is based only on a rudimentary investigation. Any significant question should be addressed to local zoning or land use officials and/or an attorney.

It is assumed that all required licenses, consents, or other legislative or administrative authority from any local, state, or national government or private entity or organization have been or can be obtained or renewed for any use on which the value estimated contained in this report is based. Appropriate government officials and/or an attorney should be consulted if an interested party has any questions or concerns on these items since we have not made a comprehensive examination of laws and regulations affecting the subject property.

Appraisal Is Not An Engineering Or Property Inspection Report

This appraisal should not be considered a report on the physical items that are a part of this property. Although the appraisal may contain information about the physical items being appraised (including their adequacy and/or condition), it should be clearly understood that this information is only to be used as a general guide for property valuation and not as a complete or detailed physical report. The appraisers are not construction, engineering, environmental, or legal experts, and any statement given on these matters in this report should be considered preliminary in nature.

The observed condition of the foundation, roof, exterior walls, interior walls, floors, heating system, plumbing, insulation, electrical service, and all mechanicals and construction is based on a casual inspection only and no detailed inspection was made. For instance, we are not experts on heating systems and no attempt was made to inspect the interior of the furnace. The structures were not checked for building code violations, and it is assumed that all buildings meet applicable building codes unless so stated in this report.

Some items such as conditions behind walls, above ceilings, behind locked doors, or under the ground are not exposed to casual view and therefore were not inspected. The existence of insulation, if any is mentioned, was found by conversation with others and/or circumstantial evidence. Since it is not exposed to view, the accuracy of any statements about insulation cannot be guaranteed.



It is assumed that there are no hidden or unapparent conditions of the property, sub-soil, or structures that would render it more or less valuable. No responsibility is assumed for such conditions, or for the engineering that may be required to discover such factors. Since no engineering or percolation tests were made, no liability is assumed for soil conditions. Sub-surface rights (mineral and oil) were not considered in making this appraisal.

Wells, septic systems, and utility lines, if any, are assumed to be in good working condition and of sufficient size and capacity for the stated highest and best use.

The age of any improvements to the subject property mentioned in this report should be considered a rough estimate. We are not sufficiently skilled in the construction trades to be able to reliably estimate the age of improvements by observation. We therefore rely on circumstantial evidence which may come into our possession (such as dates on architectural plans) or conversations with those who might be somewhat familiar with the history of the property such as property owners, on-site personnel, public records, or others. Parties interested in knowing the exact age of improvements on the land should contact us to ascertain the source of our data and then make a decision as to whether they wish to pursue additional investigation.

The appraiser(s) has observed those parts of the mechanical equipment and systems that constitute an integral part of the property and that are generally visible. From such observation, the appraiser(s) has reported any apparent conditions that the appraiser believes might bear on the conclusions of this report. The appraiser(s) has not, however, tested such mechanical equipment and systems, and thus assumes no responsibility for their operating performance (unless specifically so stated in this appraisal).

The appraiser(s) has not made a specific compliance survey and analysis of the subject to determine whether or not it is in conformity with the Americans with Disabilities Act ("ADA"). It is possible that a compliance survey of the property, together with a detailed analysis of the requirements of the ADA, could reveal that the property is not in compliance with one or more of the requirements of ADA. If so, this fact could have a negative impact upon the value of the property. The appraiser has no direct evidence relating to this issue and did not consider possible non-compliance with the requirements of the ADA in estimating the value of the property.

Because no detailed inspection was made, and because such knowledge goes beyond the scope of this appraisal, any observed condition or other comments given in this appraisal report should not be taken as a guarantee that a problem does not exist. Specifically, no guarantee is made as to the adequacy or condition of the foundation, roof, exterior walls, interior walls, floors, heating system, air conditioning system, plumbing, electrical service,



insulation, or any other detailed construction matters. If any interested party is concerned about the existence, condition, or adequacy of any particular item, we would strongly suggest that a construction expert be hired for a detailed investigation.

Appraisal Is Not An Environmental Issues Or A Hazardous Materials Report

No toxic materials or environmental impact studies were either requested or made in conjunction with this appraisal, and the appraiser(s) hereby reserves the right to alter, amend, revise or rescind any of the value opinion(s) based upon subsequent or subsequently-revealed toxic materials, pollutants or environmental impact studies, research or investigations, or due to stigma associated with potential environmental hazards.

We are not environmental experts, and we do not have the expertise necessary to determine the existence of environmental hazards such as the presence of mold, urea-formaldehyde foam insulation, toxic waste, asbestos, radon gas, PCB's, lead-based paint, contaminants such as petroleum products, or hazardous chemicals escaping from underground storage tanks, other potentially hazardous materials, or any other environmental hazards on the subject or surrounding properties. If we know of any problems of this nature which we would believe would create a significant problem, they are disclosed in this report. Nondisclosure should not be taken as an indication that such a problem does not exist, however. An expert in the field should be consulted if any interested party has questions on environmental factors.

No chemical or scientific tests were performed by the appraiser(s) on the subject property, and it is assumed that the air, water, ground, and general environment associated with the property present no physical or health hazard of any kind unless otherwise noted in the report. It is further assumed that the property does not contain any type of dump site and that there are no underground tanks (or any underground source) leaking toxic or hazardous materials or substances into the groundwater or the environment unless otherwise noted in the report.

Appraisal Is Made Under Conditions Of Uncertainty With Limited Data

As can be seen from limitations presented above, this appraisal has been performed with a limited amount of data. Data limitations result from a lack of certain areas of expertise by the appraiser(s) (that go beyond the scope of the ordinary knowledge of an appraiser), the inability of the appraiser(s) to view certain portions of the property, the inherent limitations of relying upon information provided by others, etc.



There is also an economic constraint, however. The appraisal budget (and the fee for this appraisal) did not contain unlimited funds for investigation. We have spent our time and effort in the investigative stage of this appraisal in those areas where we think it will do the most good, but inevitably there is a significant possibility that we do not possess all information relevant to the subject property.

Before relying on any statement made in this appraisal report, interested parties should contact us for the exact extent of our data collection on any point which they believe to be important to their decision-making. This will enable such interested parties to determine whether they think the extent of our data gathering process was adequate for their needs or whether they would like to pursue additional data gathering for a higher level of certainty.

Information (including projections of income and expenses) provided by local sources, such as government agencies, financial institutions, accountants, attorneys, and others is assumed to be true, correct, and reliable. No responsibility for the accuracy of such information is assumed by the appraiser(s).

The comparable sales data relied upon in this appraisal are believed to be from reliable sources. Though all the comparables were examined, it was not possible to inspect them all in detail. The value conclusions are subject to the accuracy of said data.

Engineering analyses of the subject property were neither provided for use nor made as a part of this appraisal contract. Any representation as to the suitability of the property for uses suggested in this analysis is therefore based only on a rudimentary investigation by the appraiser and the value conclusions are subject to said limitations.

All values shown in the appraisal report are based on our analysis as of the effective date(s) of valuation stated in this appraisal report. (The value[s] estimated in this appraisal report may change in the future because of changing local or national economic conditions or capital money market changes.) These values may not be valid in other time periods or as conditions change. We take no responsibility for events, conditions, or circumstances affecting the property's market value that take place subsequent to either the date of value contained in this report or the date of our field inspection, whichever occurs first.

Since projected mathematical models and other projections are based on estimates and assumptions which are inherently subject to uncertainty and variation depending upon evolving events, we do not represent them as results that will actually be achieved.

This appraisal is an estimate of value based on an analysis of information known to us at the time the appraisal was made. We do not assume any responsibility for incorrect analysis



because of our incorrect or incomplete information. If new information of significance comes to light, the value given in this report is subject to change without notice.

Opinions and estimates expressed herein represent our best judgment but should not be construed as advice or recommendation to act. Any actions taken by you, the client, or any others should be based on your own judgment, and the decision process should consider many factors other than just the value estimate and information given in this report.

Restrictions Upon Disclosure And Use Of The Appraisal

Disclosure of the contents of this appraisal report is governed by the Bylaws and Regulations of the Appraisal Institute. Neither all nor any part of the contents of this report (especially any conclusions as to value, the identity of the appraiser, or the firm with which he is connected, or any reference to the Appraisal Institute or the MAI designation shall be disseminated to the public through advertising media, public relations media, news media, sales media, or any other public means of communication without the prior written consent and approval of the appraiser.

The appraisal report may not be used for any purpose except substantiation of the value estimated without written permission from the appraiser. All valuations in this appraisal report are applicable only under the stated program of use. The valuation of a component part of the property is applicable only as a part of the whole property.

Neither the name of Gerald Alcock Company nor the name of the appraiser(s) nor this appraisal report nor any material contained in this appraisal report may be included in any prospectus, or used in any activities or transactions such as offerings or representations in connection with a real estate syndicate or syndicates, a real estate investment trust or trusts, or any securities-related exposures.

Neither this appraisal report nor any part of it may be submitted to the Securities and Exchange Commission nor to any state securities regulatory agency without the express written permission of the appraiser(s).

Neither the name of the Gerald Alcock Company nor the name of the appraiser(s) nor this appraisal report nor any material contained in this appraisal report may be used for activities or transactions that are subject to the Employee Retirement Income Security Act of 1974, as amended, without the express written permission of the appraiser(s).



Appraisal Report Limitations

Appraisal reports are technical documents addressed to the specific needs of clients. Casual readers should understand that this report does not contain all of the information we have concerning the subject property or the real estate market. While no factors we believe to be significant but unknown to the client have been knowingly withheld, it is always possible that we have information of significance which may be important to others but which, with our limited acquaintance of the property and our limited expertise, does not seem to be important to us.

Appraisal reports made for lenders are technical documents specifically made to lender requirements. Casual readers are cautioned about their limitations and cautioned against possible misinterpretation of the information contained in these reports.

The appraiser should be contacted with any questions before this report is relied on for decision-making.

The appraiser should be contacted with any questions before this report is relied on for decision-making.



REQUIRED STATEMENTS

LICENSURE

In Michigan, appraisers are required to be licensed and are regulated by the Michigan Department of Licensing and Regulatory Affairs, P.O. Box 30018, Lansing Michigan 48909. The appraisers are currently and properly licensed.

APPRAISAL REPORT

This report is classified as an Appraisal Report under the Uniform Standards of Professional Appraisal Practice (USPAP) of the Appraisal Foundation, Standards Rule 2-2(a). Broadly defined, an Appraisal Report gives the contents of the report in a summary form and connotes a concise presentation of information.

USPAP COMPETENCY PROVISION

This appraisal complies with the Competency Provision of the USPAP.

NARRATED DATES

Date of Appraisal Report

The date of this appraisal report is September 25, 2019.

Effective Date(s) of Value

The effective date of the current valuation is September 11, 2019, the date of property inspection.

Date(s) of Inspection and Inspector(s)

Lorie Alcock made an exterior inspection of the property from the street on September 11, 2019. Michael T. Williams made a separate exterior inspection of the property from the street on the same date.



APPRAISER'S CERTIFICATIONS

Michael T. Williams

I certify that, to the best of my knowledge and belief:

1. The statements of fact contained in this report are true and correct; and
2. The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are my personal, unbiased professional analyses, opinions and conclusions; and
3. I have no present or prospective interest in the property that is the subject of this report, and I have no personal interest or bias with respect to the parties involved; and
4. I have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment; and
5. My engagement in this assignment was not contingent upon developing or reporting predetermined results; and
6. My compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal; and
7. My analyses, opinions and conclusions were developed and this report has been prepared in conformity with the Uniform Standards of Professional Appraisal Practice; and
8. I have not performed an appraisal or any other service as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment; and
9. I have made an exterior inspection of the property that is the subject of this report; and
10. No one not identified in this report provided significant professional assistance to the author or authors of this report; and
11. The reported analysis, opinions and conclusions were developed and this report has been prepared in conformity with the requirements of the Code of Professional Ethics and the Standards of Professional Appraisal Practice of the Appraisal Institute; and



12. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives; and
13. This appraisal assignment was not based upon a requested minimum valuation, a specific valuation, or the approval of a loan; and
14. As of the date of this report, Michael T. Williams has completed the requirements of the continuing education program for designated members of the Appraisal Institute.

A handwritten signature in black ink that reads "M.T. Williams". The signature is written in a cursive, flowing style.

Michael T. Williams, MAI



Lorie Alcock

I certify that, to the best of my knowledge and belief:

1. The statements of fact contained in this report are true and correct; and
2. The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are my personal, unbiased professional analyses, opinions and conclusions; and
3. I have no present or prospective interest in the property that is the subject of this report, and I have no personal interest or bias with respect to the parties involved; and
4. I have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment; and
5. My engagement in this assignment was not contingent upon developing or reporting predetermined results; and
6. My compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal; and
7. My analyses, opinions and conclusions were developed and this report has been prepared in conformity with the Uniform Standards of Professional Appraisal Practice; and
8. I have not performed an appraisal or any other service as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment; and
9. I have made an exterior personal inspection of the property that is the subject of this report; and
10. No one not identified in this report provided significant professional assistance to the author or authors of this report; and
11. The reported analysis, opinions and conclusions were developed and this report has been prepared in conformity with the requirements of the Code of Professional Ethics and the Standards of Professional Appraisal Practice of the Appraisal Institute; and



12. The use of this report is subject to the requirements of the Appraisal Institute relating to review by its duly authorized representatives; and
13. This appraisal assignment was not based upon a requested minimum valuation, a specific valuation, or the approval of a loan.

A handwritten signature in cursive script, appearing to read "Lorie Alcock". The signature is fluid and elegant, with a long, sweeping tail on the final letter. It is positioned above a horizontal line.

Lorie Alcock



PROFESSIONAL QUALIFICATIONS

MICHAEL T. WILLIAMS, MAI

Principal and President with the Gerald Alcock Company, LLC since 2003 and an associate since 1995 preparing and managing valuation and consulting assignments.

Valuations have been performed on various properties including, but not limited to, retail shopping centers, net leased retailers, general commercial properties, single and multi-tenant industrial buildings, high-tech office properties, professional and medical office buildings, mixed-use facilities, residential subdivisions, apartments, and vacant land for a variety of uses. Assignments for special purpose properties include public and private golf courses and country clubs, tennis and health clubs, gas station and convenience stores, car washes, bowling alleys, hotels, self-storage facilities, churches, schools, day care facilities, specialty-medical properties, and assisted living facilities.

Consulting assignments include appraisal reviews, lease recommendations, market studies, ground lease consultations, and buy-sell negotiations.

Assignments have been performed for financing, disposition and acquisition, estate planning, federal estate tax filing, tax appeal, condemnation, internal corporate planning, and foreclosure due diligence. Valuations and market studies have been completed for proposed, partially completed, renovated, and existing structures.

Clients served include commercial banks, life insurance companies, mortgage bankers, law firms, accountants, investment firms, developers, as well as private and public agencies.

EDUCATION:

UNIVERSITY OF MICHIGAN

School of Business Administration
Bachelor of Business Administration, 1993
Concentration in Finance and Real Estate

WALSH COLLEGE

Master of Science in Finance, 2002
Magna Cum Laude
Course work in Business Valuation, Real Estate Finance, and Lease Finance



APPRAISAL INSTITUTE

Courses Completed:

- Standards of Professional Practice, Part A, 1993
- Standards of Professional Practice, Part B, 1994
- Standards of Professional Practice, Part C, 1999
- Appraisal Principles, 1994
- Appraisal Procedures, 1993
- Basic Income Capitalization, 1993
- General Applications, 1994
- Advanced Income Capitalization, 1994
- Highest & Best Use/Market Analysis, 1994
- Advanced Sales Comparison & Cost Approach, 1996
- Report Writing & Valuation Analysis, 1996
- Advanced Applications, 1997
- Fundamentals of Separating Real Property, Personal Property, and Intangible Business Assets, 2012

Seminars Completed:

- Building Construction In Michigan, 1995
- Small Hotel/Motel Valuation, 1997
- Non-Residential Demonstration Report Writing, 1998
- Appraisal Office Management, 1999
- Attacking and Defending an Appraisal for Litigation, 1999
- Appraisal Review – General, 2001
- Effective Report Writing, 2002
- The Road Less Traveled: Special Purpose Properties, 2003
- Rates and Ratios, 2003
- Regression Analysis, 2003
- Uniform Standards For Federal Land Acquisitions, 2003
- National USPAP Update, 2004
- Michigan Appraiser Licensing Law & Rules, 2004
- Appraisal of Local Retail Properties, 2004
- Appraisals and Real Estate Lending, 2004
- Appraising Convenience Stores, 2005
- Business Practice and Ethics, 2005
- Mortgage Fraud, 2006
- Reappraising, Readdressing, Reassigning, 2007
- Analyzing Distressed Real Estate, 2007
- National USPAP Update, 2007



Appraisal Issues In Publicly-Funded Land Transactions, 2007
Effective Bank - Appraiser Communication, 2007
Appraisal Issues in Publicly Funded Land Transaction, 2007
Capstone Realty Sources: Land Conservation Marketplace I, 2009
Appraisal Curriculum Overview (Two-Day General), 2009
Spotlight on USPAP: Common Errors and Issues, 2009
Michigan Economy, 2009
Online McKissock: Michigan Law, 2009
Online McKissock: 2008-09 National USPAP Update, 2009
Spotlight on USPAP: Confidentiality, 2010
Business Practice and Ethics, 2010
Data Verification Methods, 2010
Spotlight on USPAP: Appraisal Review, 2011
Michigan Economy, 2011
Online McKissock: Michigan Law, 2011
Online Analyzing Distressed Real Estate, 2011
National USPAP Equivalent Course 2010-2011, 2011
Spotlight on USPAP: Agreement For Services-Instructions, 2011
Preparing Valuation Disclosures, Entire MI Tax Tribunal, 2011
Supervising Appraisers, A Mentoring Process, 2012
Michigan Economy, 2012
National USPAP Equivalent Course 2012-2013, 2012
Michigan Laws and Rules, 2012
Contemporary Topics For Appraisers Involving the MI Tax Tribunal, 2013
Michigan Economics, 2013
Great Lakes Chapter Economic Summit, 2013
Online Subdivision Valuation, 2013
Contemporary Topics For Appraisers Involving the MI Tax Tribunal, 2014
Great Lakes Chapter Economic Summit, 2014
Michigan Economics, 2014
Appraising Airports and Airplane Hangars, 2014
National USPAP Equivalent Course 2014-2015, 2014
Michigan Economics, 2015
Online McKissock: Michigan Law, 2015
Government and The Housing Market, 2015
Great Lakes Chapter Economic Summit, 2015



PROFESSIONAL AND TRADE AFFILIATIONS:

Michigan State Certified General Appraiser #1201004033

Ohio State Certified General Appraiser #2011002568

Member, Appraisal Institute (MAI), Certificate No. 11570

Leadership Ann Arbor Program, Ann Arbor Chamber of Commerce, 2006-2007

Leadership Development & Advisory Council (LDAC), Appraisal Institute, 2014, 2015, & 2016

Treasurer, Southeast Michigan Subchapter of the Great Lakes Chapter of Appraisal Institute, 2001-2003

Board of Directors, Great Lakes Chapter of Appraisal Institute, 2007-2011

Chairperson, Membership Development, Retention and Development, Great Lakes Chapter of Appraisal Institute, 2007-2012

Assistant Regional Ethics Administrator For Region III, Appraisal Institute, 2004-2007

Regional Member Ethics Administrator For Region III, Appraisal Institute, 2008-2009

Chair, Ethics Administration Division, Appraisal Institute, 2010-2011

Chair, Ethics Appeals Panel, Appraisal Institute, 2012

Member, Professional Standards and Guidance Committee, 2013

Secretary, Great Lakes Chapter of Appraisal Institute, 2013

Treasurer, Great Lakes Chapter of Appraisal Institute, 2014

Vice President, Great Lakes Chapter of Appraisal Institute, 2015

President, Great Lakes Chapter of Appraisal Institute, 2016



GRETCHEN WHITMER GOVERNOR	STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF PROFESSIONAL LICENSING	P011132
CERTIFIED GENERAL APPRAISER LICENSE		
MICHAEL THOMAS WILLIAMS		
LICENSE NO. 1201004033	EXPIRATION DATE 07/31/2021	AUDIT NO 3426664
THIS DOCUMENT IS DULY ISSUED UNDER THE LAWS OF THE STATE OF MICHIGAN		



LORIE ALCOCK

Past responsibilities at the Gerald Alcock Company have included book-keeping and valuations for residential properties, specializing in exclusive single-family housing. Recent responsibilities, from 2000 through the present, include valuations for various properties, including, but not limited to, general commercial properties, single- and multiple-tenant industrial buildings, high-tech office properties, professional and medical office buildings, mixed-use facilities, residential subdivisions, and vacant land for a variety of uses.

Assignments have been performed for financing, disposition and acquisition, estate planning, tax appeal, condemnation, internal corporate planning, foreclosure due diligence, and litigation support. Valuations and market studies have been completed for proposed, partially completed, renovated, and existing structures.

Clients served include commercial banks, life insurance companies, mortgage bankers, law firms, accountants, investment firms, developers, as well as private and public agencies.

EDUCATION

UNIVERSITY OF MICHIGAN

School of Art and Design
Bachelor of Fine Arts, 1979

APPRAISAL INSTITUTE

Courses Completed:
Real Estate Appraisal Principles, 1986
Residential Valuation, 1986
Basic Valuation Procedures, 1987
Basic Income Capitalization, 2000
General Applications, 2001

Seminars Completed:
Income Valuation of Small Mixed-Use Properties, 2001



BUSINESS EXPERIENCE

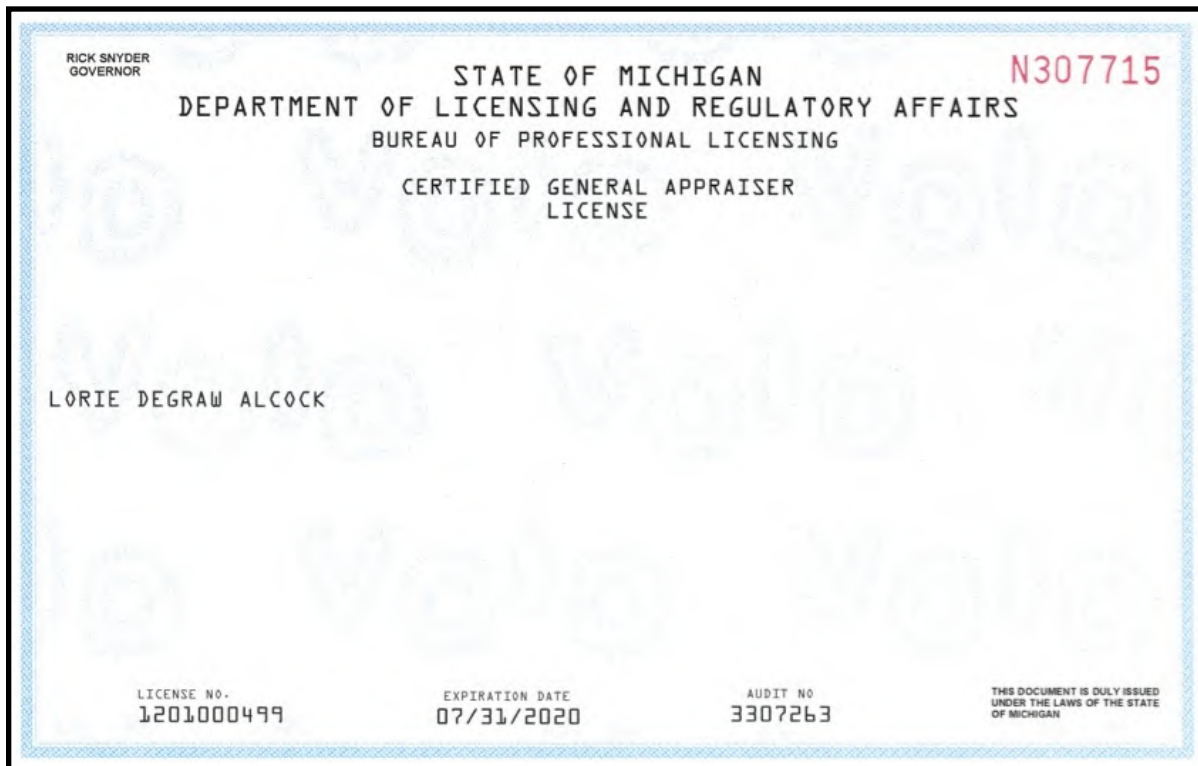
1986 – present Staff Appraiser, Gerald Alcock Company, L.L.C.
1982 – 1986 Production Artist, Group 243, Incorporated
1980 – 1982 Art Teacher, Superior Recreation Department

PROFESSIONAL AFFILIATION

State of Michigan General Certified Real Estate Appraiser, License Number 1201000499

COURT EXPERIENCE


Qualified as expert witness in Washtenaw County Circuit Court





Municipal Documents

2000 SOUTH INDUSTRIAL HWY Ann Arbor, MI 48108 (Property Address)
 Parcel Number: 09-12-04-200-013



Property Owner: CITY OF ANN ARBOR

Summary Information
 > Assessed Value: \$0 | Taxable Value: \$0

Item 1 of 1 1 Image / 0 Sketches

Parcel is Vacant

Owner and Taxpayer Information

Owner	CITY OF ANN ARBOR Water Treatment * PO BOX 8647 Ann Arbor, MI 48107	Taxpayer	SEE OWNER INFORMATION
--------------	--	-----------------	-----------------------

General Information for Tax Year 2019

Property Class	Exempt City of AA	Unit	09 City of Ann Arbor
School District	No Data to Display	Assessed Value	\$0
Map #	No Data to Display	Taxable Value	\$0
User Num Idx	4	State Equalized Value	\$0
User Alpha 1	No Data to Display	Date of Last Name Change	06/06/2007
User Alpha 3	No Data to Display	Notes	Not Available
Historical District	No	Census Block Group	No Data to Display
User Alpha 2	No Data to Display	Exemption	No Data to Display

Principal Residence Exemption Information

Homestead Date No Data to Display

Principal Residence Exemption	June 1st	Final
2020	0.0000 %	-
2019	0.0000 %	0.0000 %

Previous Year Information

Year	MBOR Assessed	Final SEV	Final Taxable
2018	\$0	\$0	\$0

Land Information

Zoning Code	PL	Total Acres	0.000
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	No	Renaissance Zone Expiration Date	No Data to Display
ECF Neighborhood	099 exempt	Mortgage Code	No Data to Display
Lot Dimensions/Comments	No Data to Display	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

LOT 21 FRISINGER INDUSTRIAL SUB ALSO BEG NW COR LOT 21 TH S 23 DEG 27 MIN 30 SEC E 415.8 FT TH S 87 DEG 54 MIN W 300 FT TH N 23 DEG 27 MIN 30 SEC W 415.8 FT TH N 87 DEG 55 MIN E 300 FT TO POB PRT NW 1/4 SEC 4 T3S R6E

Land Division Act Information

Date of Last Split/Combine	No Data to Display	Number of Splits Left	Not Available
Date Form Filed	No Data to Display	Unallocated Div.s of Parent	0

Date Created	<i>No Data to Display</i>	Unallocated Div.s Transferred	0
Acreage of Parent	0.00	Rights Were Transferred	No
Split Number	0	Courtesy Split	No
Parent Parcel	<i>No Data to Display</i>		

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page	Comments
No sales history found.							

****Disclaimer:** BS&A Software provides BS&A Online as a way for municipalities to display information online and is not responsible for the content or accuracy of the data herein. This data is provided for reference only and WITHOUT WARRANTY of any kind, expressed or inferred. Please contact your local municipality if you believe there are errors in the data.

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Private Documents

Land Use Element Master Planned: Site 5 in South Area

Site 5: Both sides of State Street to the south end of the U of M Golf Course, and the north end of South Industrial. As sites are annexed into the City, uses consistent with the light industrial district should be encouraged. Residential and commercial uses should be discouraged, except for the parcels adjacent to the Stimson and South Industrial commercial area. This area

could serve as a location for a City garage facility since it is zoned or master planned appropriately and is centrally located. Sites on the west side of State Street should be office use. If ORL zoning is desired in this vicinity, the area zoned M1 and M2 south of the proposed Koning Drive has large parcels and land uses that fit the intent of the district. -Page 111

2000 S. Industrial Highway Scenario 1: Rezone to R4B, Multiple-Family Dwelling District

Parameters:

- Development as R4B would be consistent to development to the east.
- Development as R4B would have limited impact upon adjacent properties to south, north, and west.
- Maintains water storage facility.

Development Potential	
Number of Units	52
Building Type	Apartment
Avg. Unit Size	820 sq/ft
Total Building Size	50,013 sq/ft
Building Height	3-stories, 35 feet
Parking	104 surface lots

Zoning Requirements	
Lot Area	178,058 sq/ft (4.09 acres)
Maximum Dwelling Units Per Acre (15 units per acre)	4.09 x 15 = 61 units
Minimum Lot Area Per Dwelling Units (2,900 sq/ft per unit)	2,900 sq/ft = 61 units
Minimum Open Space	55% (97,930 sq/ft)
Recreational Open Space per Unit	100 x 300 sq/ft = 30,000 sq/ft
Setbacks	Front: 15 min, 40 max Side: 12 plus + the minimum building height setback Rear: 30 plus + the minimum building height setback
Maximum Building Height	Maximum of 35 feet or 45 feet for Buildings with parking below at least 35% of the building
Parking	Vehicle: 2 spaces per dwelling unit. Bike: 1 space per 5 dwelling units, 50% enclosed, and 50% fixed hoop style racks.
Consistent with Master Plan	Yes, with appropriate buffering
Floodplain / Floodway	No
Treeline Dedication	No



Develop under R4B zoning
-Perspective (top)
-Plan view (right)



Parking:
2 spaces / unit
104 spaces total

Main Building
3 stories, 35-foot high
119-ft width,
140-foot length,
16,671 square feet/floor
50,013 sq ft total, 52 units
Avg sq ft/unit: 820

Water Tower
10,114 square feet

Open Space:
66% of lot area
114,428 square feet

2000 South Industrial Highway:
Propose Zoning R4B
~ 178,058 square feet / 4.09 acres

2000 S. Industrial Highway Scenario 2: Rezone to R4D, Multiple-Family Dwelling District

Parameters:

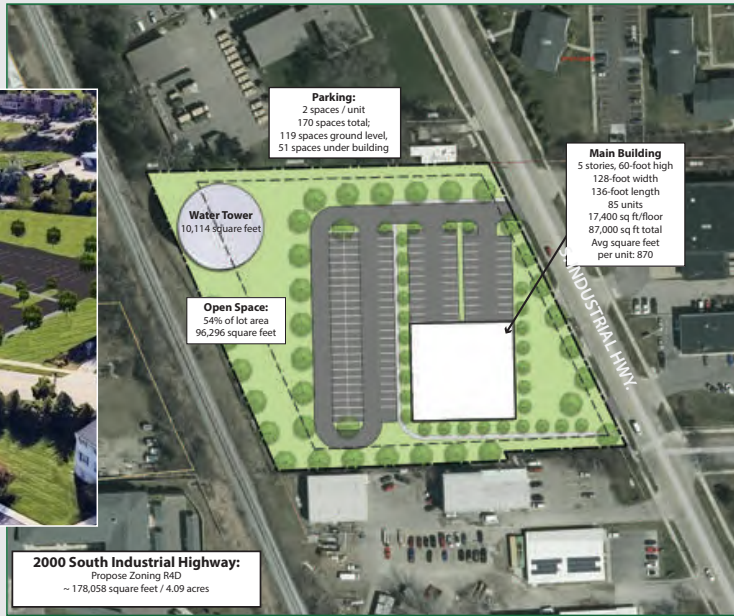
- Development as R4D would have limited impact upon adjacent properties to south, north, and west.
- Rezoning to R4D provides density.
- Maintains water storage facility.
- Open space requirements of 50% resulted the need for underground parking.

Development Potential	
Number of Units	85
Building Type	Apartment
Avg. Unit Size	870 sq/ft
Total Building Size	87,000 sq/ft
Building Height	5-stories, 60 feet
Parking	170 total, 119 surface and 51 under building

Zoning Requirements	
Lot Area	178,058 sq/ft (4.09 acres)
Maximum Dwelling Units Per Acre (25 units per acre)	4.09 x 25 =102 units
Minimum Lot Area Per Dwelling Units (1,740 sq/ft per unit)	1,740 sq/ft = 102 units
Minimum Open Space	50% (89,030 sq/ft)
Recreational Open Space per Unit	100 x 300 sq/ft = 30,000 sq/ft
Setbacks	Front: 15 min, 40 max Side: 30 plus + the minimum building height setback Rear: 30 plus + the minimum building height setback
Maximum Building Height	120 feet
Parking	Vehicle: 2 spaces per dwelling unit. Bike: 1 space per 5 dwelling units, 50% enclosed, and 50% fixed hoop style racks.
Consistent with Master Plan	Yes, with appropriate buffering
Floodplain / Floodway	No
Treeline Dedication	No



Develop under
R4D zoning
-Perspective (top)
-Plan view (right)



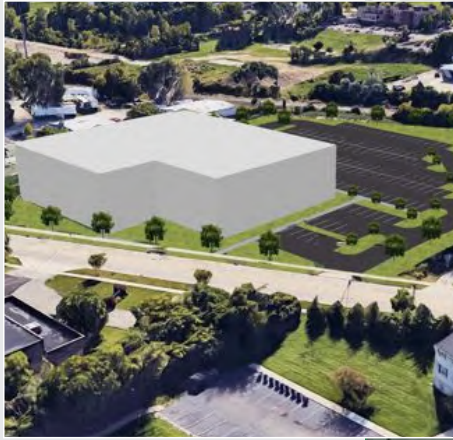
2000 S. Industrial Highway Scenario 3: Rezone to O, Office District

Parameters:

- Development as O, Office District, would have limited impact upon adjacent properties to south, north, and west.
- Rezoning to O, Office District, provides density.
- Maintains water storage facility.

Development Potential	
Number of Units	141
Building Type	Apartment
Avg. Unit Size	820 sq/ft
Total Building Size	133,543 sq/ft
Building Height	4-stories, 44 feet
Parking	141 surface spaces

Zoning Requirements	
Lot Area	178,058 sq/ft (4.09 acres)
Floor Area Ratio (F.A.R)	75%
Minimum Open Space	Not applicable
Recreational Open Space per Unit	Not applicable
Setbacks	Front: 15 min, 40 max Side: 30 plus + the minimum building height setback Rear: 30 plus + the minimum building height setback
Maximum Building Height	No maximum except in any area on a parcel extending 300 feet from an abutting residentially zoned land, the maximum height limits shall be 55 feet and 4 stories.
Parking	Vehicle: 1 space per dwelling unit. Bike: 1 space per 5 dwelling units, 50% enclosed, and 50% fixed hoop style racks.
Consistent with Master Plan	Yes, with appropriate buffering
Floodplain / Floodway	No
Treeline Dedication	No



Develop under
 O zoning
 -Perspective (top)
 -Plan view (right)



Water Tower
 10,114 square feet

Parking:
 1 space / unit
 141 spaces total

Main Building
 75% FAR
 4 stories, 44-foot high
 200-ft w, 187-foot l,
 33,385 square feet/floor
 133,543 sq ft total
 141 units
 Avg sq ft/unit: 820

2000 South Industrial Highway:
 Propose Zoning O
 ~ 178,058 square feet / 4.09 acres



APPENDIX E
REGULATORY DATABASE REPORT

Industrial Property

2000 South Industrial Highway
Ann Arbor, MI 48104

Inquiry Number: 6868191.2s
February 22, 2022

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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Physical Setting Source Summary	A-2
Physical Setting Source Map	A-9
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Physical Setting Source Records Searched	PSGR-1

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 (E1527-21), 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

2000 SOUTH INDUSTRIAL HIGHWAY
ANN ARBOR, MI 48104

COORDINATES

Latitude (North): 42.2554230 - 42° 15' 19.52"
Longitude (West): 83.7364080 - 83° 44' 11.06"
Universal Tranverse Mercator: Zone 17
UTM X (Meters): 274271.1
UTM Y (Meters): 4681548.5
Elevation: 828 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 14468119 ANN ARBOR EAST, MI
Version Date: 2019

Southeast Map: 14468191 YPSILANTI WEST, MI
Version Date: 2019

Southwest Map: 14450148 SALINE, MI
Version Date: 2019

Northwest Map: 14468121 ANN ARBOR WEST, MI
Version Date: 2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140705
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
2000 SOUTH INDUSTRIAL HIGHWAY
ANN ARBOR, MI 48104

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1		2000 S. INDUSTRIAL H	ERNS		TP
A2	ANN ARBOR MS4	2000 S INDUSTRIAL HW	RCRA NonGen / NLR, FINDS, ECHO		TP
A3	UTILITIES DEPT-FIELD	2000 S INDUSTRIAL HW	MI RGA LUST		TP
A4	UTILITIES DEPT/FIELD	2000 S INDUSTRIAL HW	MI RGA LUST		TP
A5	SOUTH INDUSTRIAL FAC	2000 S INDUSTRIAL HW	MI AST		TP
A6	UTILITIES DEPT/FIELD	2000 S INDUSTRIAL HW	MI LUST, MI UST, MI INVENTORY, MI WDS		TP
A7	ANN ARBOR MS4	2000 SOUTH INDUSTRIA	FINDS		TP
A8	CITY OF ANN ARBOR	2000 S. INDUSTRIAL	MI RGA LUST		TP
9	TRUE TECH AUTOMOTIVE	2075 S INDUSTRIAL HW	MI INVENTORY, MI BEA, MI WDS	Higher	100, 0.019, ESE
B10	US DEPT/DEFENSE - 88	1980 S INDUSTRIAL HW	RCRA-VSQQ, FINDS, ECHO	Higher	199, 0.038, NNW
B11	INDUSTRIAL PUMPING S	1990 S INDUSTRIAL HW	MI UST	Higher	262, 0.050, North
C12	OLD GLORY	1070 ROSEWOOD ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	280, 0.053, ESE
D13	MARATHON BP #243	2115 S STATE ST	MI LUST, MI UST, MI INVENTORY, MI WDS	Higher	325, 0.062, West
D14	STATE STREET AUTO SE	2115 S STATE ST	RCRA-VSQQ, FINDS, ECHO	Higher	325, 0.062, West
D15	GLEN ANN TOWING	2115 S STATE ST STE	EDR Hist Auto	Higher	325, 0.062, West
D16	MARATHON OIL CO	2115 S STATE ST	MI AST	Higher	325, 0.062, West
D17	GALLUP SILKWORTH PET	2141 S STATE ST	MI AST, RCRA NonGen / NLR, FINDS, ECHO	Higher	368, 0.070, West
D18	GALLUP-SILKWORTH COM	2141-2151 S STATE	EDR Hist Auto	Higher	368, 0.070, West
D19	GALLUP-SILKWORTH INC	2141 S STATE ST	MI LUST, MI UST, MI INVENTORY, MI BEA	Higher	368, 0.070, West
D20	GALLUP SILKWORTH	2141 S STATE ST	MI AST, MI WDS	Higher	368, 0.070, West
C21	MAACO AUTO PAINTING	2255 S INDUSTRIAL HW	RCRA NonGen / NLR, FINDS, ECHO	Higher	377, 0.071, SE
C22	WASHTENAW AUTO BODY	2255 S INDUSTRIAL HW	RCRA NonGen / NLR	Higher	377, 0.071, SE
23	LTEK INDUSTRIES INC	2284 S INDUSTRIAL HW	RCRA NonGen / NLR	Lower	503, 0.095, SE
24	USARC - ANN ARBOR, M		FUDS	Higher	562, 0.106, North
E25	ANN ARBOR PIPE & SUP	20295 STATE	MI LUST, MI UST, MI INVENTORY	Higher	586, 0.111, NW
F26	RON'S GARAGE	1130 ROSEWOOD ST	RCRA-VSQQ, FINDS, ECHO	Higher	606, 0.115, ESE
G27	2235 & 2245 S STATE	2235 & 2245 S STATE	MI INVENTORY, MI BEA	Higher	643, 0.122, West
G28	GALLUP SILKWORTH	2151 S STATE ST	MI AST	Higher	643, 0.122, West
H29	ASCENDANT MDX INC	2245 S STATE ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	647, 0.123, WSW
H30	TOWNSEND & BOTTUM, I	2245 S STATE ST	MI UST	Higher	647, 0.123, WSW
F31	FULL AUTO	1150 ROSEWOOD ST	RCRA-VSQQ	Higher	650, 0.123, ESE
H32		2235 & 2245 S STATE	MI BEA	Higher	724, 0.137, WSW
E33	WEST HAWK IND	1717 S STATE ST	MI LUST, MI UST, MI INVENTORY	Higher	748, 0.142, NW
E34	COOCH DRAIN	1717 SOUTH STATE	MI PART 201, MI INVENTORY	Higher	748, 0.142, NW
I35	PROFESSIONAL AUTOMOT	1225 JEWETT ST	RCRA-VSQQ, FINDS, ECHO	Lower	758, 0.144, ESE
J36	COLONIAL LANES PLAZA	1958 S INDUSTRIAL DR	RCRA NonGen / NLR, FINDS, ECHO	Higher	777, 0.147, NNW
J37	MR. STADIUM COIN LAU	1958 S INDUSTRIAL HW	MI UST	Higher	777, 0.147, NNW
J38	MR STADIUM COIN LAUN	1958 S INDUSTRIAL HW	MI DRYCLEANERS	Higher	777, 0.147, NNW
H39	ROYAL D COLLISION	2235 S STATE ST	RCRA-VSQQ, FINDS, ECHO	Higher	779, 0.148, WSW

MAPPED SITES SUMMARY

Target Property Address:
2000 SOUTH INDUSTRIAL HIGHWAY
ANN ARBOR, MI 48104

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
J40	COLONIAL LANES PLAZA	1956-1958 SOUTH INDU	MI INVENTORY	Higher	804, 0.152, NNW
K41	PAINTERS SUPPLY AND	2308 S INDUSTRIAL HW	RCRA-VSQQ	Lower	823, 0.156, SE
I42	HUTZEL PLUMBING HEAT	1220 JEWETT ST	MI LUST, MI UST, MI INVENTORY	Lower	854, 0.162, SE
K43	UNKNOWN	2310 SOUTH INDUSTRIA	MI BEA	Lower	929, 0.176, SE
K44	HANSENS COLLISION LL	2310 S INDUSTRIAL HW	SEMS-ARCHIVE, RCRA-VSQQ, ICIS, FINDS, ECHO, NY...	Lower	929, 0.176, SE
K45	UNKNOWN	2310 S. INDUSTRIAL H	MI INVENTORY, MI BEA, MI WDS	Lower	929, 0.176, SE
I46	HEIRLOOM FURNITURE	1240 JEWETT ST	RCRA-VSQQ	Lower	958, 0.181, ESE
K47	HUTZEL PLUMBING HEAT	2311 S INDUSTRIAL HW	MI LUST, MI UST, MI INVENTORY	Lower	1006, 0.191, SE
K48	HUTZEL PLUMBING HEAT	2311 SOUTH INDUSTRIA	MI AUL	Lower	1006, 0.191, SE
49	JOHNSON CONTROLS INC	1935 S INDUSTRIAL HW	RCRA-VSQQ	Lower	1138, 0.216, North
L50	2401 S. INDUSTRIAL H	2401 S. INDUSTRIAL H	MI DEL PART 201	Lower	1172, 0.222, SE
L51	DUSTYS COLLISION INC	2418 S INDUSTRIAL HW	RCRA NonGen / NLR	Lower	1217, 0.230, SSE
L52	GODFREY MOVING & STO	2420 S INDUSTRIAL HW	MI LUST, MI UST, MI INVENTORY, MI BEA, MI WDS	Lower	1223, 0.232, SSE
53	THE PRODUCE STATION	1635 S STATE ST	MI LUST, MI UST, MI INVENTORY, MI PART 201, MI WDS	Higher	1281, 0.243, NW
L54	NAPA AUTO	2331 S INDUSTRIAL HW	MI LUST, MI UST, MI INVENTORY, MI WDS	Lower	1360, 0.258, SE
M55	BIG DADDY AUTO WASH	1910 S INDUSTRIAL HW	MI LUST, MI UST, MI INVENTORY, MI WDS	Lower	1428, 0.270, North
56	TRANSPORTATION DEPAR	2400 BOARDWALK ST	MI LUST, MI UST, MI INVENTORY, MI Financial...	Higher	1554, 0.294, South
M57	WAY BAKERIES INC	1700 S INDUSTRIAL HW	MI LUST, MI UST, MI INVENTORY, MI BEA, MI WDS	Higher	1579, 0.299, North
M58	WAY BAKERIES INC	1700 INDUSTRIAL DRIV	MI AUL	Lower	1636, 0.310, North
M59	FORMER SCHAFFER BAKER	1700 INDUSTRIAL HWY	MI BEA	Lower	1636, 0.310, North
60	EDWARDS BROTHERS INC	2500 S STATE ST	MI LUST, MI UST, MI INVENTORY, MI BEA, MI WDS	Higher	1814, 0.344, SW
N61	2455 S INDUSTRIAL HW	2455 S INDUSTRIAL HW	MI INVENTORY, MI BEA	Lower	1839, 0.348, SE
N62	RON'S GARAGE	2455 S INDUSTRIAL HW	MI BEA, MI WDS	Lower	1839, 0.348, SE
63	2565, 2575 & 2601 S.	2565; 2575 & 2601 S.	MI INVENTORY	Higher	2005, 0.380, South
64	1946 PACKARD STREET	1946 PACKARD RD	MI INVENTORY, MI BEA	Higher	2145, 0.406, ENE
O65	MAC'S CONVENIENCE ST	1420 E STADIUM BLVD	MI LUST, MI UST, MI INVENTORY, RCRA NonGen / NLR,...	Higher	2275, 0.431, NE
O66	CITGO GAS STATION	1500 E STADIUM	MI BEA, MI WDS	Higher	2455, 0.465, NE
O67	WEAVERS MARATHON	1500 E STADIUM BLVD	RCRA-VSQQ, MI LUST, MI UST, MI INVENTORY, FINDS,...	Higher	2455, 0.465, NE
68	ANN ARBOR FIRE DEPT	1510 E STADIUM BLVD	MI LUST, MI UST, MI INVENTORY, MI WDS	Higher	2605, 0.493, NE
69	GEORGETOWN CLEANERS	2502-2568 PACKARD RO	MI AUL, MI PART 201, MI INVENTORY, MI BEA	Higher	3717, 0.704, ESE
P70	SMALL ARMS RANGE		UXO	Higher	3912, 0.741, SSE
P71	ANN ARBOR NGTR		FUDS	Higher	3912, 0.741, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

Site	Database(s)	EPA ID
2000 S. INDUSTRIAL H 2000 S. INDUSTRIAL H ANN ARBOR, MI	ERNS NRC Report #: 337490 Incident Date Time: 1996-04-21 18:30:00	N/A
ANN ARBOR MS4 2000 S INDUSTRIAL HW ANN ARBOR, MI 48104	RCRA NonGen / NLR EPA ID:: MID985652635 FINDS Registry ID:: 110003675853 ECHO Registry ID: 110003675853	MID985652635
UTILITIES DEPT-FIELD 2000 S INDUSTRIAL HW ANN ARBOR, MI	MI RGA LUST Facility ID: 0-010237 Facility ID: 00010237	N/A
UTILITIES DEPT/FIELD 2000 S INDUSTRIAL HW ANN ARBOR, MI	MI RGA LUST Facility ID: 10237	N/A
SOUTH INDUSTRIAL FAC 2000 S INDUSTRIAL HW ANN ARBOR, MI 48104	MI AST Facility Id: 91084983 Tank Status: Currently In Use	N/A
UTILITIES DEPT/FIELD 2000 S INDUSTRIAL HW ANN ARBOR, MI 48104	MI LUST Release Status: Closed Substance Release: Gasoline,Diesel Substance Release: Gasoline Facility Id: 00010237 MI UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00010237 MI INVENTORY Facility ID: 10237 MI WDS	N/A

EXECUTIVE SUMMARY

Site Id: MID985652635

Site Id: MIG000046650

WMD Id: 407823

WMD Id: 440132

ANN ARBOR MS4
2000 SOUTH INDUSTRIAL
ANN ARBOR, MI 48104

FINDS
Registry ID:: 110070001734

N/A

CITY OF ANN ARBOR
2000 S. INDUSTRIAL
ANN ARBOR, MI

MI RGA LUST

N/A

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

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

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

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

Lists of Federal RCRA generators

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

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

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

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

US INST CONTROLS..... Institutional Controls Sites List

Lists of state- and tribal hazardous waste facilities

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

Lists of state and tribal landfills and solid waste disposal facilities

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

Lists of state and tribal leaking storage tanks

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

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing

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

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield 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 SWRCY..... Recycling Facilities

MI HIST LF..... Inactive Solid Waste Facilities

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

ODI..... Open Dump Inventory

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

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

Local Lists of Hazardous waste / Contaminated Sites

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

MI CDL..... Clandestine Drug Lab Listing

US CDL..... National Clandestine Laboratory Register

EXECUTIVE SUMMARY

MI PFAS..... PFAS Contaminated Sites Listing

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

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
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
FUELS PROGRAM..... EPA Fuels Program Registered Listing
MI AIRS..... Permit and Emissions Inventory Data
MI ASBESTOS..... ASBESTOS
MI COAL ASH..... Coal Ash Disposal Sites
MI LEAD..... Lead Safe Housing Registry
MI NPDES..... List of Active NPDES Permits
MI UIC..... Underground Injection Wells Database
MINES MRDS..... Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EXECUTIVE SUMMARY

EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

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

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

Lists of Federal CERCLA sites with NFRAP

SEMS-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.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/20/2021 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HANSENS COLLISION LL</i> Site ID: 0502278 EPA Id: MID005358791	<i>2310 S INDUSTRIAL HW</i>	<i>SE 1/8 - 1/4 (0.176 mi.)</i>	<i>K44</i>	<i>114</i>

EXECUTIVE SUMMARY

Lists of Federal RCRA generators

RCRA-VSQG: 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 10 RCRA-VSQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US DEPT/DEFENSE - 88 EPA ID:: MIR000023747	1980 S INDUSTRIAL HW	NNW 0 - 1/8 (0.038 mi.)	B10	26
STATE STREET AUTO SE EPA ID:: MID985662147	2115 S STATE ST	W 0 - 1/8 (0.062 mi.)	D14	39
RON'S GARAGE EPA ID:: MID985622273	1130 ROSEWOOD ST	ESE 0 - 1/8 (0.115 mi.)	F26	76
FULL AUTO EPA ID:: MIK694498635	1150 ROSEWOOD ST	ESE 0 - 1/8 (0.123 mi.)	F31	88
ROYAL D COLLISION EPA ID:: MIR000038315	2235 S STATE ST	WSW 1/8 - 1/4 (0.148 mi.)	H39	105

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PROFESSIONAL AUTOMOT EPA ID:: MID091959098	1225 JEWETT ST	ESE 1/8 - 1/4 (0.144 mi.)	I35	96
PAINTERS SUPPLY AND EPA ID:: MIK949471338	2308 S INDUSTRIAL HW	SE 1/8 - 1/4 (0.156 mi.)	K41	108
HANSENS COLLISION LL EPA ID:: MID005358791	2310 S INDUSTRIAL HW	SE 1/8 - 1/4 (0.176 mi.)	K44	114
HEIRLOOM FURNITURE EPA ID:: MIK657862579	1240 JEWETT ST	ESE 1/8 - 1/4 (0.181 mi.)	I46	136
JOHNSON CONTROLS INC EPA ID:: MIK105803337	1935 S INDUSTRIAL HW	N 1/8 - 1/4 (0.216 mi.)	49	143

Lists of state and tribal leaking storage tanks

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 11/08/2021 has revealed that there are 16 MI LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARATHON BP #243	2115 S STATE ST	W 0 - 1/8 (0.062 mi.)	D13	36

EXECUTIVE SUMMARY

Release Status: Closed Facility Id: 00018093				
GALLUP-SILKWORTH INC	2141 S STATE ST	W 0 - 1/8 (0.070 mi.)	D19	53
Release Status: Open Substance Release: Heating Oil,Used Oil Facility Id: 00010607				
ANN ARBOR PIPE & SUP	20295 STATE	NW 0 - 1/8 (0.111 mi.)	E25	74
Release Status: Closed Substance Release: Diesel Facility Id: 00040424				
WEST HAWK IND	1717 S STATE ST	NW 1/8 - 1/4 (0.142 mi.)	E33	93
Release Status: Open Substance Release: Unknown Facility Id: 00040302				
THE PRODUCE STATION	1635 S STATE ST	NW 1/8 - 1/4 (0.243 mi.)	53	157
Release Status: Open Substance Release: Gasoline Facility Id: 00036638				
TRANSPORTATION DEPAR	2400 BOARDWALK ST	S 1/4 - 1/2 (0.294 mi.)	56	166
Release Status: Closed Substance Release: Diesel Facility Id: 00006646				
WAY BAKERIES INC	1700 S INDUSTRIAL HW	N 1/4 - 1/2 (0.299 mi.)	M57	170
Release Status: Closed Substance Release: Gasoline Facility Id: 00000064				
EDWARDS BROTHERS INC	2500 S STATE ST	SW 1/4 - 1/2 (0.344 mi.)	60	176
Release Status: Closed Facility Id: 00007580				
MAC'S CONVENIENCE ST	1420 E STADIUM BLVD	NE 1/4 - 1/2 (0.431 mi.)	O65	183
Release Status: Closed Release Status: Open Substance Release: Gasoline Substance Release: Gasoline,Gasoline Facility Id: 00009891				
WEAVERS MARATHON	1500 E STADIUM BLVD	NE 1/4 - 1/2 (0.465 mi.)	O67	197
Release Status: Closed Facility Id: 00016303				
ANN ARBOR FIRE DEPT	1510 E STADIUM BLVD	NE 1/4 - 1/2 (0.493 mi.)	68	210
Release Status: Closed Substance Release: Unknown,Unknown Facility Id: 00010254				
Lower Elevation	Address	Direction / Distance	Map ID	Page
HUTZEL PLUMBING HEAT	1220 JEWETT ST	SE 1/8 - 1/4 (0.162 mi.)	I42	111
Release Status: Closed Substance Release: Unknown Facility Id: 00035211				
HUTZEL PLUMBING HEAT	2311 S INDUSTRIAL HW	SE 1/8 - 1/4 (0.191 mi.)	K47	140
Release Status: Closed				

EXECUTIVE SUMMARY

Substance Release: Gasoline
Facility Id: 00035212

GODFREY MOVING & STO Release Status: Closed Facility Id: 00034348	2420 S INDUSTRIAL HW	SSE 1/8 - 1/4 (0.232 mi.)	L52	153
NAPA AUTO Release Status: Closed Substance Release: Gasoline Facility Id: 00041982	2331 S INDUSTRIAL HW	SE 1/4 - 1/2 (0.258 mi.)	L54	159
BIG DADDY AUTO WASH Release Status: Closed Substance Release: Diesel, Gasoline, Gasoline, Gasoline, Gasoline, Gasoline Facility Id: 00004216	1910 S INDUSTRIAL HW	N 1/4 - 1/2 (0.270 mi.)	M55	161

Lists of state and tribal registered storage tanks

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

A review of the MI UST list, as provided by EDR, has revealed that there are 11 MI UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INDUSTRIAL PUMPING S Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00010241	1990 S INDUSTRIAL HW	N 0 - 1/8 (0.050 mi.)	B11	31
MARATHON BP #243 Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00018093	2115 S STATE ST	W 0 - 1/8 (0.062 mi.)	D13	36
GALLUP-SILKWORTH INC Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Tank Status: Closed in Ground Facility Type: CLOSED Facility Id: 00010607	2141 S STATE ST	W 0 - 1/8 (0.070 mi.)	D19	53
ANN ARBOR PIPE & SUP Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00040424	20295 STATE	NW 0 - 1/8 (0.111 mi.)	E25	74
TOWNSEND & BOTTUM, I Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED	2245 S STATE ST	WSW 0 - 1/8 (0.123 mi.)	H30	87

EXECUTIVE SUMMARY

Facility Id: 00011132

WEST HAWK IND **1717 S STATE ST** **NW 1/8 - 1/4 (0.142 mi.)** **E33** **93**

Database: UST, Date of Government Version: 10/01/2021

Tank Status: Removed from Ground

Facility Type: CLOSED

Facility Id: 00040302

MR. STADIUM COIN LAU **1958 S INDUSTRIAL HW** **NNW 1/8 - 1/4 (0.147 mi.)** **J37** **104**

Database: UST, Date of Government Version: 10/01/2021

Tank Status: Currently In Use

Facility Type: CLOSED

Facility Id: 00019630

THE PRODUCE STATION **1635 S STATE ST** **NW 1/8 - 1/4 (0.243 mi.)** **53** **157**

Database: UST, Date of Government Version: 10/01/2021

Tank Status: Closed in Ground

Facility Type: CLOSED

Facility Id: 00036638

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
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HUTZEL PLUMBING HEAT	1220 JEWETT ST	SE 1/8 - 1/4 (0.162 mi.)	I42	111
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Database: UST, Date of Government Version: 10/01/2021

Tank Status: Removed from Ground

Facility Type: CLOSED

Facility Id: 00035211

HUTZEL PLUMBING HEAT	2311 S INDUSTRIAL HW	SE 1/8 - 1/4 (0.191 mi.)	K47	140
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Database: UST, Date of Government Version: 10/01/2021

Tank Status: Removed from Ground

Facility Type: CLOSED

Facility Id: 00035212

GODFREY MOVING & STO	2420 S INDUSTRIAL HW	SSE 1/8 - 1/4 (0.232 mi.)	L52	153
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Database: UST, Date of Government Version: 10/01/2021

Tank Status: Removed from Ground

Facility Type: CLOSED

Facility Id: 00034348

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 11/10/2021 has revealed that there are 4 MI AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
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MARATHON OIL CO	2115 S STATE ST	W 0 - 1/8 (0.062 mi.)	D16	47
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Facility Id: 91081005

Removed/Closed Date: 05/26/1993

Tank Status: Removed from Premises

GALLUP SILKWORTH PET	2141 S STATE ST	W 0 - 1/8 (0.070 mi.)	D17	48
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Facility Id: 92081001

Removed/Closed Date: 05/20/1993

Tank Status: Removed from Premises

GALLUP SILKWORTH	2141 S STATE ST	W 0 - 1/8 (0.070 mi.)	D20	62
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EXECUTIVE SUMMARY

Facility Id: 92081524
 Facility Id: 91081029
 Removed/Closed Date: 11/07/1992
 Removed/Closed Date: 08/01/1991
 Tank Status: Removed from Premises

GALLUP SILKWORTH Facility Id: 91081001 Removed/Closed Date: 09/01/1991 Removed/Closed Date: 07/23/1991 Tank Status: Removed from Premises Tank Status: Pipe Disconnected	2151 S STATE ST	W 0 - 1/8 (0.122 mi.)	G28	80
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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 11/15/2021 has revealed that there are 2 MI AUL sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUTZEL PLUMBING HEAT Facility ID: 00035212	2311 SOUTH INDUSTRIA	SE 1/8 - 1/4 (0.191 mi.)	K48	142
WAY BAKERIES INC Facility ID: 00000064	1700 INDUSTRIAL DRIV	N 1/4 - 1/2 (0.310 mi.)	M58	174

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

MI PART 201: 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.

A review of the MI PART 201 list, as provided by EDR, and dated 10/01/2013 has revealed that there are 3 MI PART 201 sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COOCH DRAIN Facility Status: Inactive - no actions taken to address contamination Facility ID: 81000161	1717 SOUTH STATE	NW 1/8 - 1/4 (0.142 mi.)	E34	95
THE PRODUCE STATION Facility Status: Interim Response in progress	1635 S STATE ST	NW 1/8 - 1/4 (0.243 mi.)	53	157

EXECUTIVE SUMMARY

Facility ID: 81000447

GEORGETOWN CLEANERS

2502-2568 PACKARD RO

ESE 1/2 - 1 (0.704 mi.)

69

213

Facility Status: Evaluation in progress

Facility ID: 81000534

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 10/18/2021 has revealed that there are 24 MI INVENTORY sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TRUE TECH AUTOMOTIVE Facility ID: 81000712	2075 S INDUSTRIAL HW	ESE 0 - 1/8 (0.019 mi.)	9	24
MARATHON BP #243 Facility ID: 18093	2115 S STATE ST	W 0 - 1/8 (0.062 mi.)	D13	36
GALLUP-SILKWORTH INC Facility ID: 10607	2141 S STATE ST	W 0 - 1/8 (0.070 mi.)	D19	53
ANN ARBOR PIPE & SUP Facility ID: 40424	20295 STATE	NW 0 - 1/8 (0.111 mi.)	E25	74
2235 & 2245 S STATE Facility ID: 81000725	2235 & 2245 S STATE	W 0 - 1/8 (0.122 mi.)	G27	79
WEST HAWK IND Facility ID: 40302	1717 S STATE ST	NW 1/8 - 1/4 (0.142 mi.)	E33	93
COOCH DRAIN Facility ID: 81000161	1717 SOUTH STATE	NW 1/8 - 1/4 (0.142 mi.)	E34	95
COLONIAL LANES PLAZA Facility ID: 81000640	1956-1958 SOUTH INDU	NNW 1/8 - 1/4 (0.152 mi.)	J40	108
THE PRODUCE STATION Facility ID: 36638 Facility ID: 81000447	1635 S STATE ST	NW 1/8 - 1/4 (0.243 mi.)	53	157
TRANSPORTATION DEPAR Facility ID: 6646	2400 BOARDWALK ST	S 1/4 - 1/2 (0.294 mi.)	56	166
WAY BAKERIES INC Facility ID: 64	1700 S INDUSTRIAL HW	N 1/4 - 1/2 (0.299 mi.)	M57	170
EDWARDS BROTHERS INC	2500 S STATE ST	SW 1/4 - 1/2 (0.344 mi.)	60	176

EXECUTIVE SUMMARY

Facility ID: 7580 Facility ID: 81000740				
2565, 2575 & 2601 S. Facility ID: 81000744	2565; 2575 & 2601 S.	S 1/4 - 1/2 (0.380 mi.)	63	182
1946 PACKARD STREET Facility ID: 81000658	1946 PACKARD RD	ENE 1/4 - 1/2 (0.406 mi.)	64	182
MAC'S CONVENIENCE ST Facility ID: 9891	1420 E STADIUM BLVD	NE 1/4 - 1/2 (0.431 mi.)	O65	183
WEAVERS MARATHON Facility ID: 16303	1500 E STADIUM BLVD	NE 1/4 - 1/2 (0.465 mi.)	O67	197
ANN ARBOR FIRE DEPT Facility ID: 10254	1510 E STADIUM BLVD	NE 1/4 - 1/2 (0.493 mi.)	68	210
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUTZEL PLUMBING HEAT Facility ID: 35211	1220 JEWETT ST	SE 1/8 - 1/4 (0.162 mi.)	I42	111
UNKNOWN Facility ID: 81000878 Facility ID: 81000728	2310 S. INDUSTRIAL H	SE 1/8 - 1/4 (0.176 mi.)	K45	133
HUTZEL PLUMBING HEAT Facility ID: 35212	2311 S INDUSTRIAL HW	SE 1/8 - 1/4 (0.191 mi.)	K47	140
GODFREY MOVING & STO Facility ID: 34348 Facility ID: 81000733	2420 S INDUSTRIAL HW	SSE 1/8 - 1/4 (0.232 mi.)	L52	153
NAPA AUTO Facility ID: 41982	2331 S INDUSTRIAL HW	SE 1/4 - 1/2 (0.258 mi.)	L54	159
BIG DADDY AUTO WASH Facility ID: 4216	1910 S INDUSTRIAL HW	N 1/4 - 1/2 (0.270 mi.)	M55	161
2455 S INDUSTRIAL HW Facility ID: 81000737	2455 S INDUSTRIAL HW	SE 1/4 - 1/2 (0.348 mi.)	N61	180

MI DEL PART 201: 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.

A review of the MI DEL PART 201 list, as provided by EDR, and dated 08/01/2013 has revealed that there is 1 MI DEL PART 201 site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
2401 S. INDUSTRIAL H Facility Id: 81000408	2401 S. INDUSTRIAL H	SE 1/8 - 1/4 (0.222 mi.)	L50	145

EXECUTIVE SUMMARY

Other Ascertainable Records

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

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2021 has revealed that there are 8 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
OLD GLORY EPA ID:: MID982205106	1070 ROSEWOOD ST	ESE 0 - 1/8 (0.053 mi.)	C12	32
GALLUP SILKWORTH PET EPA ID:: MID982622375	2141 S STATE ST	W 0 - 1/8 (0.070 mi.)	D17	48
MAACO AUTO PAINTING EPA ID:: MID981951551	2255 S INDUSTRIAL HW	SE 0 - 1/8 (0.071 mi.)	C21	64
WASHTENAW AUTO BODY EPA ID:: MID074212952	2255 S INDUSTRIAL HW	SE 0 - 1/8 (0.071 mi.)	C22	69
ASCENDANT MDX INC EPA ID:: MIK682936240	2245 S STATE ST	WSW 0 - 1/8 (0.123 mi.)	H29	81
COLONIAL LANES PLAZA EPA ID:: MIK481290259	1958 S INDUSTRIAL DR	NNW 1/8 - 1/4 (0.147 mi.)	J36	100

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LTEK INDUSTRIES INC EPA ID:: MIK968193821	2284 S INDUSTRIAL HW	SE 0 - 1/8 (0.095 mi.)	23	71
DUSTYS COLLISION INC EPA ID:: MIK157368714	2418 S INDUSTRIAL HW	SSE 1/8 - 1/4 (0.230 mi.)	L51	145

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 10/26/2021 has revealed that there are 2 FUDS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
USARC - ANN ARBOR, M		N 0 - 1/8 (0.106 mi.)	24	74
ANN ARBOR NGTR		SSE 1/2 - 1 (0.741 mi.)	P71	218

UXO: A listing of unexploded ordnance site locations

A review of the UXO list, as provided by EDR, and dated 12/31/2020 has revealed that there is 1 UXO site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SMALL ARMS RANGE		SSE 1/2 - 1 (0.741 mi.)	P70	218

EXECUTIVE SUMMARY

MI BEA: 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 BEA list, as provided by EDR, and dated 08/10/2021 has revealed that there are 15 MI BEA sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TRUE TECH AUTOMOTIVE	2075 S INDUSTRIAL HW	ESE 0 - 1/8 (0.019 mi.)	9	24
GALLUP-SILKWORTH INC	2141 S STATE ST	W 0 - 1/8 (0.070 mi.)	D19	53
2235 & 2245 S STATE	2235 & 2245 S STATE	W 0 - 1/8 (0.122 mi.)	G27	79
Not reported	2235 & 2245 S STATE	WSW 1/8 - 1/4 (0.137 mi.)	H32	92
WAY BAKERIES INC	1700 S INDUSTRIAL HW	N 1/4 - 1/2 (0.299 mi.)	M57	170
EDWARDS BROTHERS INC	2500 S STATE ST	SW 1/4 - 1/2 (0.344 mi.)	60	176
1946 PACKARD STREET	1946 PACKARD RD	ENE 1/4 - 1/2 (0.406 mi.)	64	182
CITGO GAS STATION	1500 E STADIUM	NE 1/4 - 1/2 (0.465 mi.)	O66	196
WEAVERS MARATHON	1500 E STADIUM BLVD	NE 1/4 - 1/2 (0.465 mi.)	O67	197
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNKNOWN	2310 SOUTH INDUSTRIA	SE 1/8 - 1/4 (0.176 mi.)	K43	113
UNKNOWN	2310 S. INDUSTRIAL H	SE 1/8 - 1/4 (0.176 mi.)	K45	133
GODFREY MOVING & STO	2420 S INDUSTRIAL HW	SSE 1/8 - 1/4 (0.232 mi.)	L52	153
FORMER SCHAFFER BAKER	1700 INDUSTRIAL HWY	N 1/4 - 1/2 (0.310 mi.)	M59	175
2455 S INDUSTRIAL HW	2455 S INDUSTRIAL HW	SE 1/4 - 1/2 (0.348 mi.)	N61	180
RON'S GARAGE	2455 S INDUSTRIAL HW	SE 1/4 - 1/2 (0.348 mi.)	N62	181

MI DRYCLEANERS: A listing of drycleaning facilities in Michigan.

A review of the MI DRYCLEANERS list, as provided by EDR, and dated 01/07/2021 has revealed that there is 1 MI DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MR STADIUM COIN LAUN Establishment#: 8100003	1958 S INDUSTRIAL HW	NNW 1/8 - 1/4 (0.147 mi.)	J38	105

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

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HANSENS COLLISION LL EPA ID: MID005358791	2310 S INDUSTRIAL HW	SE 1/8 - 1/4 (0.176 mi.)	K44	114

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: 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.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

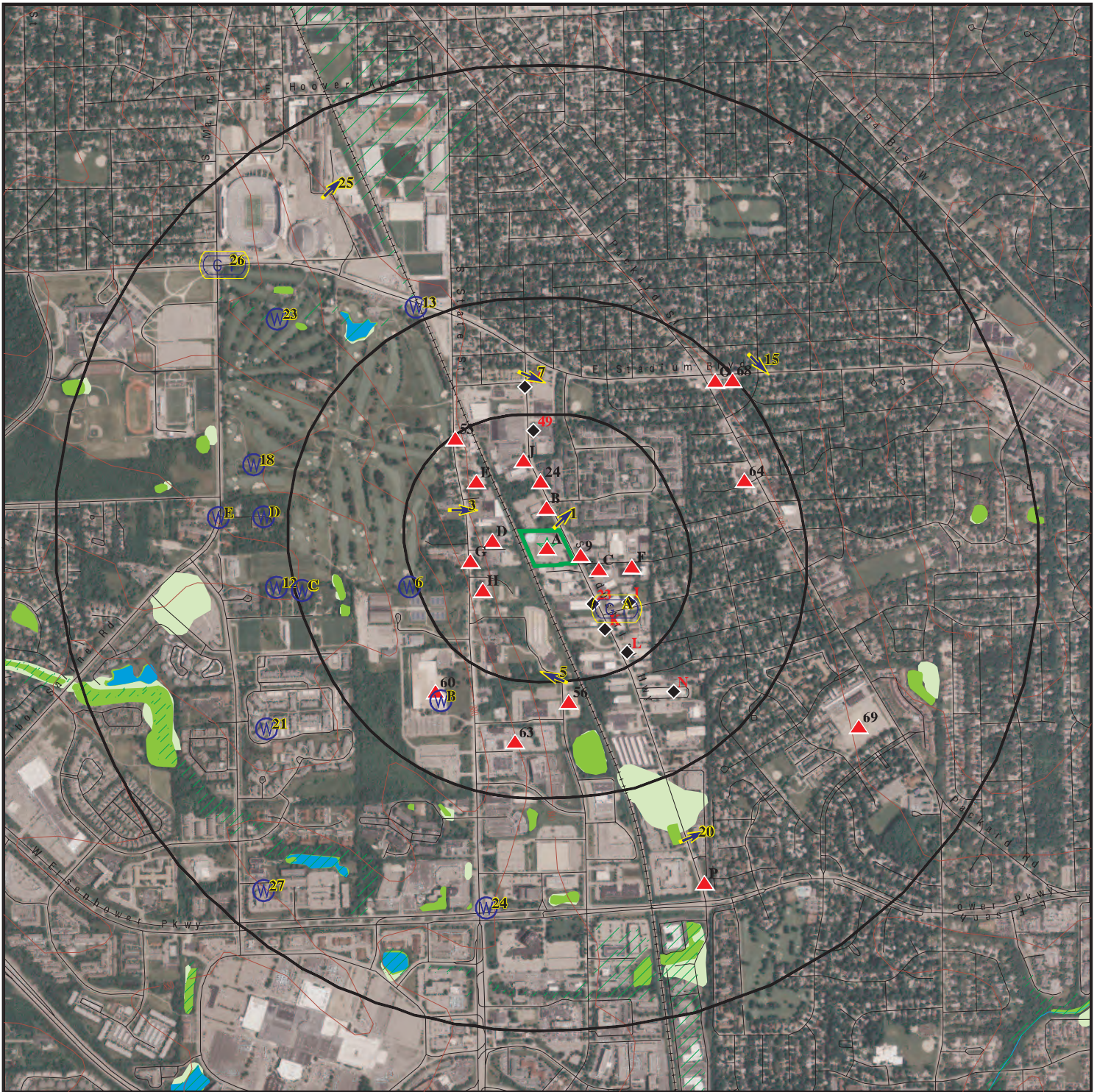
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GLEN ANN TOWING	2115 S STATE ST STE	W 0 - 1/8 (0.062 mi.)	D15	46
GALLUP-SILKWORTH COM	2141-2151 S STATE	W 0 - 1/8 (0.070 mi.)	D18	52

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

<u>Site Name</u>	<u>Database(s)</u>
M14 ROLLOVER	SEMS

OVERVIEW MAP - 6868191.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

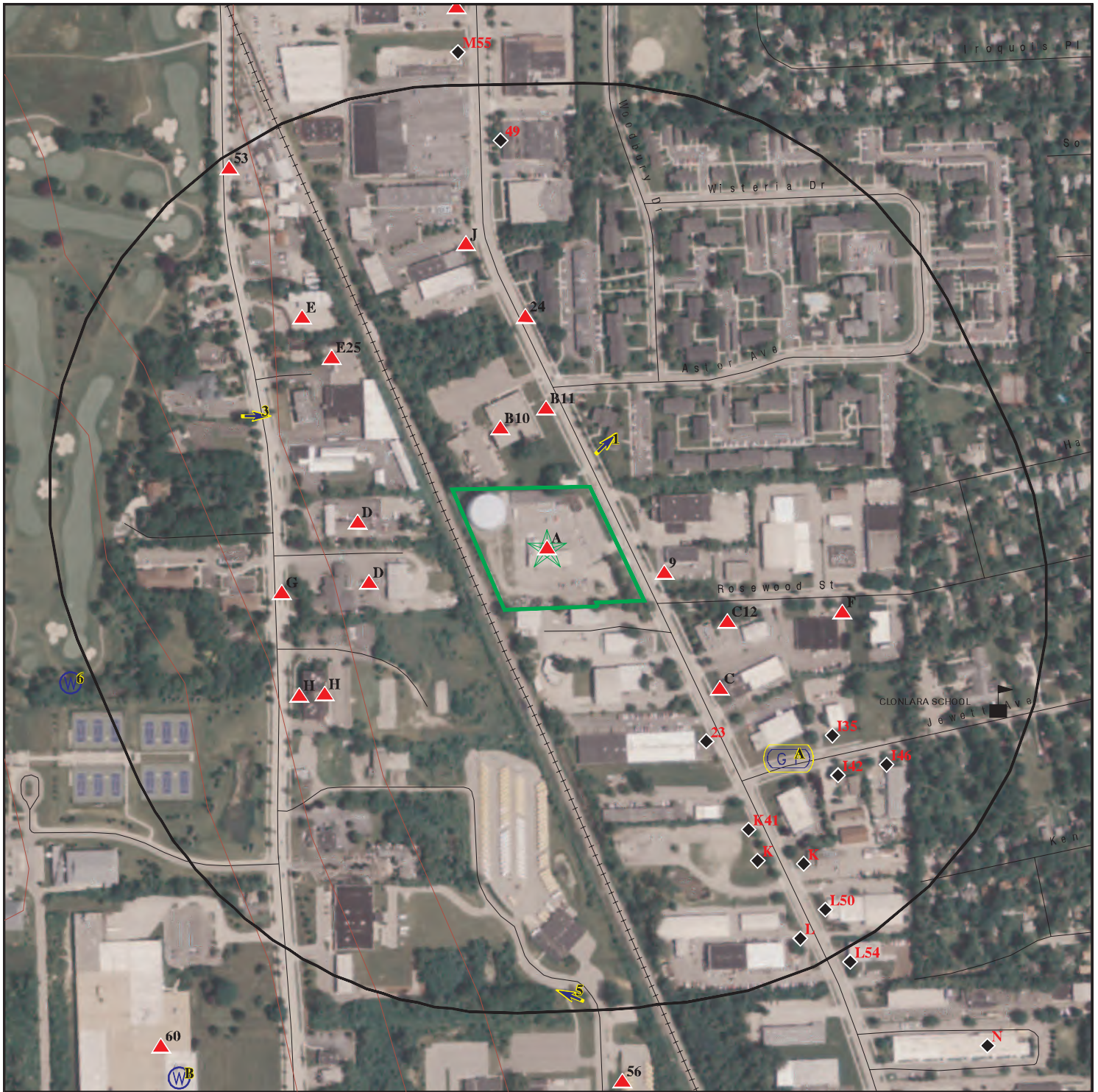
State Wetlands








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: Industrial Property
 ADDRESS: 2000 South Industrial Highway
 Ann Arbor MI 48104
 LAT/LONG: 42.255423 / 83.736408

CLIENT: ATC Group Services LLC
 CONTACT: Andrew Temerowski
 INQUIRY #: 6868191.2s
 DATE: February 22, 2022 5:55 pm

DETAIL MAP - 6868191.2S



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

-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard

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: Industrial Property
 ADDRESS: 2000 South Industrial Highway
 Ann Arbor MI 48104
 LAT/LONG: 42.255423 / 83.736408

CLIENT: ATC Group Services LLC
 CONTACT: Andrew Temerowski
 INQUIRY #: 6868191.2s
 DATE: February 22, 2022 5:58 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		4	6	NR	NR	NR	10
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP	1	NR	NR	NR	NR	NR	1
<i>Lists of state- and tribal hazardous waste facilities</i>								
MI SHWS	1.000		0	0	0	0	NR	0
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
MI SWF/LF	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
MI LUST	0.500	1	3	5	8	NR	NR	17

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
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
MI UST	0.250	1	5	6	NR	NR	NR	12
MI AST	0.250	1	4	0	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
MI AUL	0.500		0	1	1	NR	NR	2
<i>Lists of state and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
MI BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
MI SWRCY	0.500		0	0	0	NR	NR	0
MI HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
MI PART 201	1.000		0	2	0	1	NR	3
MI INVENTORY	0.500	1	5	8	11	NR	NR	25
MI CDL	TP		NR	NR	NR	NR	NR	0
MI DEL PART 201	1.000		0	1	0	0	NR	1
US CDL	TP		NR	NR	NR	NR	NR	0
MI PFAS	0.500		0	0	0	NR	NR	0
<i>Local Land Records</i>								
MI LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
MI SPILLS	TP		NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250	1	6	2	NR	NR	NR	9

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
FUDS	1.000		1	0	0	1	NR	2
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
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	2	NR	NR	NR	NR	NR	2
UXO	1.000		0	0	0	1	NR	1
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
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		3	4	8	NR	NR	15
MI COAL ASH	0.500		0	0	0	NR	NR	0
MI DRYCLEANERS	0.250		0	1	NR	NR	NR	1
MI Financial Assurance	TP		NR	NR	NR	NR	NR	0
MI LEAD	TP		NR	NR	NR	NR	NR	0
NY 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	1	NR	NR	NR	NR	NR	1
MINES MRDS	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
---------	-------	--	---	---	---	---	----	---

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 Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
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	3	NR	NR	NR	NR	NR	3
- Totals --		13	33	38	28	3	0	115

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A1
Target
Property

2000 S. INDUSTRIAL HWY
ANN ARBOR, MI

ERNS 96337490
N/A

Site 1 of 8 in cluster A

Actual:
828 ft.

Incident Commons:
NRC Report #: 337490
Description of Incident: FUEL OIL SPILL FROM ABOVE GROUND STORAGE TANK ON CONSTRUCTION
SITECAPACITY 1000 GALLONS / VALVE DISCOVERED OPEN AND LEAKING
FIXED
Type of Incident: UNKNOWN
Incident Cause: UNKNOWN
Incident Date Time: 1996-04-21 18:30:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 2000 S. INDUSTRIAL HWY
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: ANN ARBOR
Location State: MI
Location County: WASHTENAW
Location Zip: Not reported
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported

Incidents:
NRC Report #: 337490
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported
Aircraft Fuel on Board: Not reported
Aircraft Fuel on Board Units: Not reported
Aircraft Spot Number: Not reported
Aircraft Hanger: Not reported
Aircraft Runway Number: Not reported
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: UNKNOWN
Power Generating Facility: U
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: UNKNOWN
DOT Regulated: U

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

96337490

Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSF Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

96337490

Other Employee Testing: Not reported
Unknown Testing: Not reported
Passenger Handling: Not reported
Passenger Route: XXX
Passenger Delay: XXX

Incident Details:

NRC Report #: 337490
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
Number Evacuated: Not reported
Who Evacuated: Not reported
Radius of Evacuation: Not reported
Any Injuries: U
Number Injured: Not reported
Number Hospitalized: Not reported
Any Fatalities: U
Number Fatalities: Not reported
Any Damages: N
Damage Amount: Not reported
Air Corridor Closed: N
Air Corridor Desc: Not reported
Air Closure Time: Not reported
Waterway Closed: N
Waterway Desc: Not reported
Waterway Closure Time: Not reported
Road Closed: N
Road Desc: Not reported
Road Closure Time: Not reported
Closure Direction: Not reported
Major Artery: N
Track Closed: N
Track Desc: Not reported
Track Closure Time: Not reported
Media Interest: Not reported
Medium Desc: WATER
Additional Medium Info: STORM DRAIN>RETENTION BASIN NR HURON RIV.
Body of Water: Not reported
Tributary of: Not reported
Release Secured: U
Estimated Duration of Release: Not reported
Release rate: Not reported
Desc Remedial Action: ATSALIS BROS HIRED CONTRACTOR (HYPO INDUSTRIAL SVCS) TO PERFORMREMOVAL / BOOMS SET AT RETENTION BASIN DOWNSTREAM

State Agency on Scene: Not reported
State Agency Report Number: Not reported
Other Agency Notified: Not reported
Weather Conditions: Not reported
Air Temperature: Not reported
Wind Speed: Not reported
Wind Direction: Not reported
Water Supply Contaminated: U
Sheen Size: Not reported
Sheen Color: Not reported
Direction of Sheen Travel: Not reported
Sheen Odor Description: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

96337490

Wave Condition: Not reported
Current Speed: Not reported
Current Direction: Not reported
Water Temperature: Not reported
Track Close Dir: Not reported
Empl Fatality: Not reported
Pass Fatality: Not reported
Community Impact: N
Wind Speed Unit: Not reported
Employee Injuries: Not reported
Passenger Injuries: Not reported
Occupant Fatality: Not reported
Current Speed Unit: Not reported
Road Closure Units: Not reported
Track Closure Units: Not reported
Sheen Size Units: Not reported
Additional Info: HURON RIVER BEYOND BASIN / DISCOVERED BY LOCAL FIRE DEPT AFTER RCVINGCITIZEN COMPLAINT / SITE IS A MILE FROM BASIN
State Agency Notified: Not reported
Federal Agency Notified: Not reported
nearest River Mile Marker: Not reported
Sheen Size Length: Not reported
Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:
NRC Report #: 337490
Site ID: 96337490
Date Time Received: 1996-04-21 20:00:40
Date Time Complete: 1996-04-21 20:16:49
Call Type: INC
Responsible Company: TONY ATSALIS BROS.
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: Not reported
Responsible State: MI
Responsible Zip: Not reported
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
NRC Report #: 337490
Chris Code: ODS
Case Number: Not reported
UN Number: Not reported
Amount of Material: 1000
Unit of Measure: GALLON(S)
Name of Material: OIL: DIESEL
If Reached Water: YES
Amount in Water: 750
Unit of Measure Reach Water: GALLON(S)

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

A2
Target
Property

ANN ARBOR MS4
2000 S INDUSTRIAL HWY
ANN ARBOR, MI 48104

RCRA NonGen / NLR
FINDS
ECHO

1000828200
MID985652635

Site 2 of 8 in cluster A

Actual:
828 ft.

RCRA NonGen / NLR:		
Date Form Received by Agency:		20070801
Handler Name:	CITY OF ANN ARBOR	
Handler Address:		2000 S INDUSTRIAL HWY
Handler City,State,Zip:		ANN ARBOR, MI 48104
EPA ID:		MID985652635
Contact Name:		MICHAEL BERGREN
Contact Address:		2000 S INDUSTRIAL HWY
Contact City,State,Zip:		ANN ARBOR, MI 48104
Contact Telephone:		734-994-4918
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 8647
Mailing City,State,Zip:		ANN ARBOR, MI 48107
Owner Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:		Private
Operator Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRC Permit Baseline:		Not on the Baseline
2018 GPRC Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANN ARBOR MS4 (Continued)

1000828200

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20070802
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20070802
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANN ARBOR MS4 (Continued)

1000828200

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 20070802
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 20070802
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19921019
Handler Name: CITY OF ANN ARBOR
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070801
Handler Name: CITY OF ANN ARBOR
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ANN ARBOR MS4 (Continued)

1000828200

List of NAICS Codes and Descriptions:

NAICS Code: 92111
 NAICS Description: EXECUTIVE OFFICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110003675853

Click Here:

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.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

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

ECHO:

Envid: 1000828200
 Registry ID: 110003675853
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003675853>
 Name: ANN ARBOR MS4
 Address: 2000 S INDUSTRIAL HWY
 City,State,Zip: ANN ARBOR, MI 48104

A3
Target
Property

UTILITIES DEPT-FIELD SERVICES
2000 S INDUSTRIAL HWY
ANN ARBOR, MI

MI RGA LUST S115699622
N/A

Site 3 of 8 in cluster A

Actual:
828 ft.

RGA LUST:

2003	UTILITIES DEPT-FIELD SERVICES	2000 S INDUSTRIAL HWY
2001	UTILITIES DEPT-FIELD SERVICES	2000 S INDUSTRIAL HWY
2000	UTILITIES DEPT-FIELD SERVICES	2000 S INDUSTRIAL HWY
1999	UTILITIES DEPT-FIELD SERVICES	2000 S INDUSTRIAL HWY
1998	UTILITIES DEPT-FIELD SERVICES	2000 S INDUSTRIAL HWY
1997	UTILITIES DEPT-FIELD SERVICES	2000 S INDUSTRIAL HWY

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

A4 UTILITIES DEPT/FIELD SERVICES
Target 2000 S INDUSTRIAL HWY
Property ANN ARBOR, MI

MI RGA LUST S115699623
N/A

Site 4 of 8 in cluster A

Actual:
828 ft.

RGA LUST:

2012	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY
2011	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY
2010	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY
2009	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY
2008	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY
2007	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY
2006	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY
2005	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY
2004	UTILITIES DEPT/FIELD SERVICES	2000 S INDUSTRIAL HWY

A5 SOUTH INDUSTRIAL FACILITY
Target 2000 S INDUSTRIAL HWY
Property ANN ARBOR, MI 48104

MI AST A100348005
N/A

Site 5 of 8 in cluster A

Actual:
828 ft.

AST:

Name: SOUTH INDUSTRIAL FACILITY
 Address: 2000 S INDUSTRIAL HWY
 City: ANN ARBOR
 Zip: 48104-6120
 Facility ID: 91084983
 Owner Name: CITY OF ANN ARBOR
 Owner Address: PO BOX 8647 100 N FIFTH AVE
 Owner City,St,Zip: ANN ARBOR, MI 48107
 District: 1
 Date of Collection: Not reported
 Accuracy: Not reported
 Source: Not reported
 Point Line Area: Not reported
 Description Category: Not reported
 Method of Collection: Not reported
 Horizontal Datum: Not reported
 Latitude: Not reported
 Longitude: Not reported

Tank Id: ATK-125124-15
 Tank Status: Currently In Use
 Capacity (in gallons): 5000
 Installation Date: 09/28/2009
 Substance Stored: Other
 Removed/Closed Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A6 UTILITIES DEPT/FIELD SERVICES
Target 2000 S INDUSTRIAL HWY
Property ANN ARBOR, MI 48104

MI LUST U002303280
MI UST N/A
MI INVENTORY
MI WDS

Site 6 of 8 in cluster A

Actual:
828 ft.

LUST:
Name: UTILITIES DEPT/FIELD SERVICES
Address: 2000 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00010237
Source: STATE OF MICHIGAN
Owner Name: Cityof Ann Arbor
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: Utilities Dept-field Services
Latitude: 42.25564
Longitude: -83.73592
Date of Collection: 11/03/2004
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 40
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-1524-92
Release Date: 09/15/1992
Substance Released: Gasoline,Diesel
Release Status: Closed
Release Closed Date: 06/16/1997

Leak Number: C-1594-92
Release Date: 09/14/1992
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: 06/16/1997

UST:
Name: UTILITIES DEPT/FIELD SERVICES
Address: 2000 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6120
Facility Type: ACTIVE
Facility ID: 00010237
Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UTILITIES DEPT/FIELD SERVICES (Continued)

U002303280

Owner Phone: 7347946000
Contact: Dennis L. Crum
Contact Phone: (734) 323-4158
Date of Collection: 11/03/2004
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 7
Capacity: 15000
Tank Status: Currently In Use
Substance: Diesel
Install Date: 01/01/1992
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25564
Longitude: -83.73592

Name: UTILITIES DEPT/FIELD SERVICES
Address: 2000 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6120
Facility Type: ACTIVE
Facility ID: 00010237
Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported
Owner Phone: 7347946000
Contact: Dennis L. Crum
Contact Phone: (734) 323-4158
Date of Collection: 11/03/2004
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 6
Capacity: 15000
Tank Status: Currently In Use
Substance: Gasoline
Install Date: 01/01/1992

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UTILITIES DEPT/FIELD SERVICES (Continued)

U002303280

Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.25564
Longitude:	-83.73592
Name:	UTILITIES DEPT/FIELD SERVICES
Address:	2000 S INDUSTRIAL HWY
City,State,Zip:	ANN ARBOR 48104-6120
Facility Type:	ACTIVE
Facility ID:	00010237
Owner Name:	CITY OF ANN ARBOR
Owner Address:	PO BOX 8647 100 N FIFTH AVE
Owner City:	ANN ARBOR
Owner State:	MI
Owner Zip:	48107
Owner Contact:	Not reported
Owner Phone:	7347946000
Contact:	Dennis L. Crum
Contact Phone:	(734) 323-4158
Date of Collection:	11/03/2004
Accuracy:	40
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
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:	5
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Diesel
Install Date:	Not reported
Remove Date:	10/05/1992
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.25564
Longitude:	-83.73592
Name:	UTILITIES DEPT/FIELD SERVICES
Address:	2000 S INDUSTRIAL HWY
City,State,Zip:	ANN ARBOR 48104-6120
Facility Type:	ACTIVE
Facility ID:	00010237

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UTILITIES DEPT/FIELD SERVICES (Continued)

U002303280

Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported
Owner Phone: 7347946000
Contact: Dennis L. Crum
Contact Phone: (734) 323-4158
Date of Collection: 11/03/2004
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 2000
Tank Status: Removed from Ground
Substance: Diesel
Install Date: Not reported
Remove Date: 10/03/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25564
Longitude: -83.73592

Name: UTILITIES DEPT/FIELD SERVICES
Address: 2000 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6120
Facility Type: ACTIVE
Facility ID: 00010237
Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported
Owner Phone: 7347946000
Contact: Dennis L. Crum
Contact Phone: (734) 323-4158
Date of Collection: 11/03/2004
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UTILITIES DEPT/FIELD SERVICES (Continued)

U002303280

District: Region 2 - Jackson District Office
Tank ID: 3
Capacity: 2000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 10/03/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25564
Longitude: -83.73592

Name: UTILITIES DEPT/FIELD SERVICES
Address: 2000 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6120
Facility Type: ACTIVE
Facility ID: 00010237
Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported
Owner Phone: 7347946000
Contact: Dennis L. Crum
Contact Phone: (734) 323-4158
Date of Collection: 11/03/2004
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: Removed from Ground
Substance: Gasoline
Install Date: 04/10/1980
Remove Date: 09/05/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25564
Longitude: -83.73592

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UTILITIES DEPT/FIELD SERVICES (Continued)

U002303280

Name: UTILITIES DEPT/FIELD SERVICES
Address: 2000 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6120
Facility Type: ACTIVE
Facility ID: 00010237
Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported
Owner Phone: 7347946000
Contact: Dennis L. Crum
Contact Phone: (734) 323-4158
Date of Collection: 11/03/2004
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: Removed from Ground
Substance: Gasoline
Install Date: 04/11/1979
Remove Date: 09/05/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25564
Longitude: -83.73592

INVENTORY:

Name: UTILITIES DEPT/FIELD SERVICES
Address: 2000 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Township: Not reported
District: Jackson
Data Source: Risks Not Determined
Location ID: 54387
Lust Name: Utilities Dept-field Services
Regulatory Program: 13
Release Status: Open
Project Manager: Wilde, Dan
Latitude: 42.25570565
Longitude: -83.73597646

WDS:

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UTILITIES DEPT/FIELD SERVICES (Continued)

U002303280

Name: CITY OF ANN ARBOR
 Address: 2000 S INDUSTRIAL HWY
 City,State,Zip: ANN ARBOR, MI 48104
 Site Id: MID985652635
 WMD Id: 407823
 Site Specific Name: CITY OF ANN ARBOR
 Mailing Address: PO BOX 8647
 Mailing City/State/Zip: 48107
 Mailing County: WASHTENAW

Name: ATSALIS BROTHERS PAINTING CO
 Address: 2000 S INDUSTRIAL HWY
 City,State,Zip: ANN ARBOR, MI 48104
 Site Id: MIG00046650
 WMD Id: 440132
 Site Specific Name: ATSALIS BROTHERS PAINTING
 Mailing Address: 2000 S INDUSTRIAL HWY
 Mailing City/State/Zip: 48104
 Mailing County: WASHTENAW

**A7
 Target
 Property**

**ANN ARBOR MS4
 2000 SOUTH INDUSTRIAL HIGHWAY
 ANN ARBOR, MI 48104**

**FINDS 1022966706
 N/A**

Site 7 of 8 in cluster A

**Actual:
 828 ft.**

FINDS:
 Registry ID: 110070001734

Click Here:

Environmental Interest/Information System:

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

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

**A8
 Target
 Property**

**CITY OF ANN ARBOR
 2000 S. INDUSTRIAL
 ANN ARBOR, MI**

**MI RGA LUST S115669824
 N/A**

Site 8 of 8 in cluster A

**Actual:
 828 ft.**

RGA LUST:
 1991 CITY OF ANN ARBOR 2000 S. INDUSTRIAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

9
ESE
< 1/8
0.019 mi.
100 ft.

TRUE TECH AUTOMOTIVE REPAIR
2075 S INDUSTRIAL HWY
ANN ARBOR, MI 48104

MI INVENTORY S109094191
MI BEA N/A
MI WDS

Relative:
Higher
Actual:
828 ft.

INVENTORY:
Name: 2075 S INDUSTRIAL HWY
Address: 2075 S INDUSTRIAL HWY
City,State,Zip: MI 48104
Township: Ann Arbor City
District: Jackson
Data Source: Risks Not Determined
Location ID: 75767
Lust Name: Not reported
Regulatory Program: 201
Release Status: Not reported
Project Manager: Tiernan, Gerald
Latitude: 42.2555
Longitude: -83.7353

BEA:
Name: Not reported
Address: 2075 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR CITY, MI 48104
Secondary Address: Not reported
BEA Number: 883
District: Jackson
Date Received: 04/01/2008
Submitter Name: South Industrial Properties LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: S
Determination 20107A: No Request
Reviewer: katkov
Division Assigned: ERD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: Not reported
Address: 2075 S. INDUSTRIAL HIGHWAY
City,State,Zip: ANN ARBOR CITY, MI 48104
Secondary Address: Not reported
BEA Number: 1189
District: Jackson
Date Received: 08/13/2012
Submitter Name: SLJJ Ventures, L.L.C.
Petition Determination: No Request

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUE TECH AUTOMOTIVE REPAIR (Continued)

S109094191

Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: hisket
Division Assigned: ERD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: 2075 S INDUSTRIAL HWY
Address: 2075 S INDUSTRIAL HWY
City,State,Zip: MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 04/01/2008
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000712
Submittal Type: Baseline Environmental Assessment
Submittal Number: B200800883JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2008-04-02 13:39:51
Date Completed: Not reported
Township: Ann Arbor City
Work Unit: Jackson
Comments: CONTENT MANAGER
Organization: South Industrial Properties LLC
Contact: Douglas Dunham
Contact Type: Submitter Contact

Name: 2075 S INDUSTRIAL HWY
Address: 2075 S INDUSTRIAL HWY
City,State,Zip: MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 08/13/2012
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TRUE TECH AUTOMOTIVE REPAIR (Continued)

S109094191

Category:	Not reported
Determination 20107A:	Not reported
Reviewer:	Not reported
Division Assigned:	Not reported
Location ID:	81000712
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B201201189JK
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2012-08-13 13:41:39
Date Completed:	Not reported
Township:	Ann Arbor City
Work Unit:	Jackson
Comments:	CONTENT MANAGER Category B1 REVIEW CONCLUSION: BEA identifies a new concern, in whole or in part, and assessment of the available information indicates no imminent, ongoing or evident future significant risk exists.
Organization:	SLJJ Ventures, L.L.C.
Contact:	Jason Vertrees
Contact Type:	Submitter Contact

WDS:

Name:	TRUE TECH AUTOMOTIVE REPAIR
Address:	2075 S INDUSTRIAL HWY
City,State,Zip:	ANN ARBOR, MI 48104
Site Id:	MIG000047505
WMD Id:	439720
Site Specific Name:	TRUE TECH AUTOMOTIVE REPAIR
Mailing Address:	2075 S INDUSTRIAL HWY
Mailing City/State/Zip:	48104
Mailing County:	WASHTENAW

B10
NNW
 < 1/8
 0.038 mi.
 199 ft.

US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND
1980 S INDUSTRIAL HWY
ANN ARBOR, MI 48104

RCRA-VSQG 1004725030
FINDS MIR000023747
ECHO

Site 1 of 2 in cluster B

Relative:
Higher
Actual:
829 ft.

RCRA-VSQG:	
Date Form Received by Agency:	20170410
Handler Name:	US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND
Handler Address:	1980 S INDUSTRIAL HWY
Handler City,State,Zip:	ANN ARBOR, MI 48104
EPA ID:	MIR000023747
Contact Name:	MICHELE B HOLTOM
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	719-317-1452
Contact Fax:	614-325-8884
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Federal
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND (Continued)

1004725030

Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1980 S INDUSTRIAL HWY
Mailing City,State,Zip:	ANN ARBOR, MI 48104
Owner Name:	US DEPT/DEFENSE- ARMY RESERVE CENTER
Owner Type:	Federal
Operator Name:	US DEPT/DEFENSE- ARMY RESERVE CENTER
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND (Continued)

1004725030

Handler Date of Last Change: 20170421
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:

Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: US DEPT/DEFENSE- ARMY RESERVE CENTER
Legal Status: Federal
Date Became Current: 20010131
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: US DEPT/DEFENSE- ARMY RESERVE CENTER
Legal Status: Federal
Date Became Current: 20010131
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: US DEPT/DEFENSE- ARMY RESERVE CENTER
Legal Status: Federal
Date Became Current: 20010131
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: US DEPT/DEFENSE- ARMY RESERVE CENTER
Legal Status: Federal
Date Became Current: 20010131
Date Ended Current: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND (Continued)

1004725030

Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: US DEPT/DEFENSE- ARMY RESERVE CENTER
Legal Status: Federal
Date Became Current: 20010131
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: US DEPT/DEFENSE- ARMY RESERVE CENTER
Legal Status: Federal
Date Became Current: 20010131
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: US DEPT/DEFENSE- ARMY RESERVE CENTER
Legal Status: Federal
Date Became Current: 20010131
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: US DEPT/DEFENSE- ARMY RESERVE CENTER
Legal Status: Federal
Date Became Current: 20010131
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19970509

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND (Continued)

1004725030

Handler Name: US DEPT/DEFENSE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010122
Handler Name: US DEPT/DEFENSE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20021231
Handler Name: US DEPT/DEFENSE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170410
Handler Name: US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND (Continued)

1004725030

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110003701334

Click Here:

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: 1004725030
Registry ID: 110003701334
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003701334>
Name: US DEPT/DEFENSE - 88TH REGIONAL SUPPORT COMMAND
Address: 1980 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104

B11
North
< 1/8
0.050 mi.
262 ft.

INDUSTRIAL PUMPING STATION
1990 S INDUSTRIAL HWY
ANN ARBOR, MI 48104
Site 2 of 2 in cluster B

MI UST **U000266232**
N/A

Relative:
Higher
Actual:
829 ft.

UST:
Name: INDUSTRIAL PUMPING STATION
Address: 1990 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-4625
Facility Type: CLOSED
Facility ID: 00010241
Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported
Owner Phone: 7347946000
Contact: DANIEL J. CULLEN
Contact Phone: (734) 994-6696
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

INDUSTRIAL PUMPING STATION (Continued)

U000266232

Point Line Area: POINT
 Desc Category: Plant Entrance (Freight)
 Method of Collection: Address Matching-House Number
 District: Region 2 - Jackson District Office
 Tank ID: 1
 Capacity: 550
 Tank Status: Removed from Ground
 Substance: Diesel
 Install Date: 03/17/1972
 Remove Date: 09/15/1991
 Tank Number: Not reported
 Tank Details Compartments: Not reported
 Tank Release Detection: Not reported
 Pipe Release Detection: Not reported
 Piping Material: Not reported
 Piping Type: Not reported
 Tank Construction: Not reported
 Impressed Device: Not reported
 Latitude: 42.25595
 Longitude: -83.73609

C12
ESE
< 1/8
0.053 mi.
280 ft.

OLD GLORY
1070 ROSEWOOD ST
ANN ARBOR, MI 48104
Site 1 of 3 in cluster C

RCRA NonGen / NLR **1000116047**
FINDS **MID982205106**
ECHO

Relative:
Higher
Actual:
828 ft.

RCRA NonGen / NLR:		
Date Form Received by Agency:		19970201
Handler Name:	OLD GLORY	
Handler Address:		1070 ROSEWOOD ST
Handler City,State,Zip:		ANN ARBOR, MI 48104
EPA ID:		MID982205106
Contact Name:		RICHARD ANDERSON
Contact Address:		1070 ROSEWOOD ST
Contact City,State,Zip:		ANN ARBOR, MI 48104
Contact Telephone:		313-663-5476
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		2766 NEWPORT RD
Mailing City,State,Zip:		ANN ARBOR, MI 48103
Owner Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:		Private
Operator Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

OLD GLORY (Continued)

1000116047

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code: D001
 Waste Description: IGNITABLE WASTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLD GLORY (Continued)

1000116047

Handler - Owner Operator:

Owner/Operator Indicator: Operator
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 19970202
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 19970202
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 19970202
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 19970202
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19870710
Handler Name: OLD GLORY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLD GLORY (Continued)

1000116047

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970201
Handler Name: OLD GLORY
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110003627816

Click Here:

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: 1000116047
Registry ID: 110003627816
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003627816>
Name: OLD GLORY
Address: 1070 ROSEWOOD ST
City,State,Zip: ANN ARBOR, MI 48104

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

D13 **MARATHON BP #243**
West **2115 S STATE ST**
< 1/8 **ANN ARBOR, MI 48104**
0.062 mi.
325 ft. **Site 1 of 8 in cluster D**

MI LUST **U000266255**
MI UST **N/A**
MI INVENTORY
MI WDS

Relative:
Higher
Actual:
836 ft.

LUST:
 Name: MARATHON BP #243
 Address: 2115 S STATE ST
 City,State,Zip: ANN ARBOR, MI 48104-
 Facility ID: 00018093
 Source: STATE OF MICHIGAN
 Owner Name: MarathonPetroleum Co LP
 Owner Address: Not reported
 Owner City,St,Zip: UNKNOWN, MI
 Owner Contact: Not reported
 Owner Phone: Not reported
 Country: USA
 District: Jackson
 Site Name: Marathon
 Latitude: 42.25663
 Longitude: -83.73963
 Date of Collection: 01/11/2001
 Method of Collection: Address Matching-House Number
 Accuracy: 100
 Accuracy Value Unit: FEET
 Horizontal Data: NAD83
 Point Line Area: POINT
 Desc Category: Plant Entrance (Freight)
 Regulatory Program: Not reported
 Risk Condition: Not reported
 Project Manager: Not reported
 Senate District: Not reported
 House District: Not reported
 US Congressional District: Not reported

Leak Number: C-0915-91
 Release Date: 05/09/1991
 Substance Released: Not reported
 Release Status: Closed
 Release Closed Date: 06/23/1997

UST:
 Name: MARATHON BP #243
 Address: 2115 S STATE ST
 City,State,Zip: ANN ARBOR 48104-8100
 Facility Type: CLOSED
 Facility ID: 00018093
 Owner Name: MARATHON PETROLEUM CO LP
 Owner Address: 539 S MAIN ST
 Owner City: FINDLAY
 Owner State: OH
 Owner Zip: 45840
 Owner Contact: Not reported
 Owner Phone: 4194212121
 Contact: Not reported
 Contact Phone: Not reported
 Date of Collection: Not reported
 Accuracy: Not reported
 Horizontal Datum: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MARATHON BP #243 (Continued)

U000266255

Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	C
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Other(UNK)
Install Date:	Not reported
Remove Date:	05/12/1994
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	MARATHON BP #243
Address:	2115 S STATE ST
City,State,Zip:	ANN ARBOR 48104-8100
Facility Type:	CLOSED
Facility ID:	00018093
Owner Name:	MARATHON PETROLEUM CO LP
Owner Address:	539 S MAIN ST
Owner City:	FINDLAY
Owner State:	OH
Owner Zip:	45840
Owner Contact:	Not reported
Owner Phone:	4194212121
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B
Capacity:	2000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	05/01/1966
Remove Date:	06/10/1991
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MARATHON BP #243 (Continued)

U000266255

Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: Not reported
Longitude: Not reported

Name: MARATHON BP #243
Address: 2115 S STATE ST
City,State,Zip: ANN ARBOR 48104-8100
Facility Type: CLOSED
Facility ID: 00018093
Owner Name: MARATHON PETROLEUM CO LP
Owner Address: 539 S MAIN ST
Owner City: FINDLAY
Owner State: OH
Owner Zip: 45840
Owner Contact: Not reported
Owner Phone: 4194212121
Contact: Not reported
Contact Phone: Not reported
Date of Collection: Not reported
Accuracy: Not reported
Horizontal Datum: Not reported
Accuracy Value Unit: Not reported
Source: Not reported
Point Line Area: Not reported
Desc Category: Not reported
Method of Collection: Not reported
District: Not reported
Tank ID: A
Capacity: 550
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 05/01/1964
Remove Date: 06/10/1991
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: Not reported
Longitude: Not reported

INVENTORY:

Name: MARATHON BP #243
Address: 2115 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 61864
Lust Name: Marathon
Regulatory Program: 13
Release Status: Closed

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MARATHON BP #243 (Continued)

U000266255

Project Manager: Hiske, Terry
 Latitude: 42.256639
 Longitude: -83.739634

WDS:

Name: STATE STREET AUTO SERVICE
 Address: 2115 S STATE ST
 City,State,Zip: ANN ARBOR, MI 48104
 Site Id: MID985662147
 WMD Id: 408753
 Site Specific Name: STATE STREET AUTO SERVICE
 Mailing Address: 2115 S STATE ST
 Mailing City/State/Zip: 48104
 Mailing County: WASHTENAW

D14
West
< 1/8
0.062 mi.
325 ft.

STATE STREET AUTO SERVICE
2115 S STATE ST
ANN ARBOR, MI 48104

RCRA-VSQG 1004724199
FINDS MID985662147
ECHO

Site 2 of 8 in cluster D

Relative:
Higher
Actual:
836 ft.

RCRA-VSQG:
 Date Form Received by Agency: 20170320
 Handler Name: STATE STREET AUTO SERVICE
 Handler Address: 2115 S STATE ST
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MID985662147
 Contact Name: MIKE KENNEDY
 Contact Address: Not reported
 Contact City,State,Zip: Not reported
 Contact Telephone: 734-761-8006
 Contact Fax: Not reported
 Contact Email: SERVICE@HOOVERSTREETAUTO.COM
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Private
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 2115 S STATE ST
 Mailing City,State,Zip: ANN ARBOR, MI 48104
 Owner Name: BRIAN HOGUE/STATE STREET AUTO SERVICE
 Owner Type: Private
 Operator Name: BRIAN HOGUE/STATE STREET AUTO SERVICE
 Operator Type: Private
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

STATE STREET AUTO SERVICE (Continued)

1004724199

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20170421
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BRIAN HOGUE/STATE STREET AUTO SERVICE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STATE STREET AUTO SERVICE (Continued)

1004724199

Legal Status:	Private
Date Became Current:	20160901
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	BRIAN HOGUE/STATE STREET AUTO SERVICE
Legal Status:	Private
Date Became Current:	20160901
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOURDEN ROBERT
Legal Status:	Private
Date Became Current:	19931020
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOURDEN ROBERT
Legal Status:	Private
Date Became Current:	19931020
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOURDEN ROBERT
Legal Status:	Private
Date Became Current:	19931020
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STATE STREET AUTO SERVICE (Continued)

1004724199

Owner/Operator Indicator: Owner
Owner/Operator Name: JOURDEN ROBERT
Legal Status: Private
Date Became Current: 19931020
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19800101
Handler Name: JOURDEN BROTHERS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19930520
Handler Name: JOURDEN BROTHERS INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170320
Handler Name: STATE STREET AUTO SERVICE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STATE STREET AUTO SERVICE (Continued)

1004724199

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Used Oil - Generators
Date Violation was Determined: 20170206
Actual Return to Compliance Date: 20170517
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20170320
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STATE STREET AUTO SERVICE (Continued)

1004724199

Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20170206
Actual Return to Compliance Date:	20170517
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20170320
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STATE STREET AUTO SERVICE (Continued)

1004724199

Evaluation Action Summary:

Evaluation Date: 20170206
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20170517
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20170206
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20170206
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20170517
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

FINDS:

Registry ID: 110003682756

Click Here:

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.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

STATE STREET AUTO SERVICE (Continued)

1004724199

ECHO:

Envid: 1004724199
 Registry ID: 110003682756
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003682756>
 Name: STATE STREET AUTO SERVICE
 Address: 2115 S STATE ST
 City,State,Zip: ANN ARBOR, MI 48104

D15
West
< 1/8
0.062 mi.
325 ft.

GLEN ANN TOWING
2115 S STATE ST STE A
ANN ARBOR, MI 48104

EDR Hist Auto 1020587260
N/A

Site 3 of 8 in cluster D

Relative:
Higher

EDR Hist Auto

Actual:
836 ft.

Year:	Name:	Type:
1979	CARLTON DAVID L	Petroleum Products, NEC
1980	CARLTON DAVID L	Petroleum Products, NEC
1982	CARLTON OIL COMPANY*	Petroleum Products, NEC
1983	CARLTON OIL COMPANY*	Petroleum Products, NEC
1985	CARLTON OIL COMPANY*	Gasoline Service Stations
1986	CARLTON OIL COMPANY*	Gasoline Service Stations
1987	CARLTON OIL COMPANY*	Gasoline Service Stations
1988	CARLTON OIL COMPANY	Gasoline Service Stations
1989	CARLTON OIL COMPANY	Gasoline Service Stations, NEC
1990	CARLTON OIL COMPANY	Gasoline Service Stations, NEC
1991	CARLTON OIL COMPANY	Gasoline Service Stations, NEC
1993	JOURDEN BROTHERS INC	General Automotive Repair Shops
1994	JOURDEN BROTHERS INC	General Automotive Repair Shops
1995	JOURDEN BROTHERS INC	General Automotive Repair Shops
1996	JOURDEN BROTHERS INC	General Automotive Repair Shops
1997	JOURDEN BROTHERS INC	General Automotive Repair Shops
1998	JOURDEN BROTHERS INC	General Automotive Repair Shops
1999	JOURDEN BROTHERS INC	General Automotive Repair Shops
2000	JOURDEN BROTHERS INC	General Automotive Repair Shops
2001	JOURDEN BROTHERS INC	General Automotive Repair Shops
2002	JOURDEN BROTHERS INC	General Automotive Repair Shops
2003	JOURDEN BROTHERS INC	General Automotive Repair Shops
2004	JOURDEN BROTHERS INC	General Automotive Repair Shops
2005	JOURDEN BROTHERS INC	General Automotive Repair Shops
2006	JOURDEN BROTHERS INC	General Automotive Repair Shops
2007	JOURDEN BROTHERS INC	General Automotive Repair Shops
2008	STATE STREET OIL INC	Gasoline Service Stations
2008	JOURDEN BROTHERS INC	General Automotive Repair Shops
2009	JOURDEN BROTHERS INC	General Automotive Repair Shops
2009	STATE STREET OIL INC	Gasoline Service Stations
2010	JOURDEN BROTHERS INC	General Automotive Repair Shops
2011	JOURDEN BROTHERS INC	General Automotive Repair Shops
2012	JOURDEN BROTHERS INC	General Automotive Repair Shops
2013	JOURDEN BROTHERS INC	General Automotive Repair Shops
2014	JOURDEN BROTHERS INC	General Automotive Repair Shops

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

D16
West
< 1/8
0.062 mi.
325 ft.

MARATHON OIL CO
2115 S STATE ST
ANN ARBOR, MI 48104
Site 4 of 8 in cluster D

MI AST **A100269129**
 N/A

Relative:
Higher
Actual:
836 ft.

AST:

Name: MARATHON OIL CO
 Address: 2115 S STATE ST
 City: ANN ARBOR
 Zip: 48104-8100
 Facility ID: 91081005
 Owner Name: MARATHON OIL CO
 Owner Address: 26899 NORTHWESTERN HWY SUITE 420
 Owner City,St,Zip: SOUTHFIELD, MI 48034-8422
 District: 1
 Date of Collection: 01/11/2001
 Accuracy: 100 FEET
 Source: STATE OF MICHIGAN
 Point Line Area: POINT
 Description Category: Plant Entrance (Freight)
 Method of Collection: Address Matching-House Number
 Horizontal Datum: NAD83
 Latitude: 42.2566390
 Longitude: -83.739634

Tank Id: ATK-000457-15
 Tank Status: Removed from Premises
 Capacity (in gallons): Not reported
 Installation Date: Not reported
 Substance Stored: Other
 Removed/Closed Date: 05/26/1993

Tank Id: ATK-044530-15
 Tank Status: Removed from Premises
 Capacity (in gallons): Not reported
 Installation Date: Not reported
 Substance Stored: Other
 Removed/Closed Date: 05/26/1993

Tank Id: ATK-037954-15
 Tank Status: Removed from Premises
 Capacity (in gallons): Not reported
 Installation Date: Not reported
 Substance Stored: Other
 Removed/Closed Date: 05/26/1993

Tank Id: ATK-022202-15
 Tank Status: Removed from Premises
 Capacity (in gallons): Not reported
 Installation Date: Not reported
 Substance Stored: Other
 Removed/Closed Date: 05/26/1993

Tank Id: ATK-067520-15

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MARATHON OIL CO (Continued)

A100269129

Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 05/26/1993

Tank Id: ATK-022201-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 05/26/1993

Tank Id: ATK-044528-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 05/26/1993

Tank Id: ATK-067546-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 05/26/1993

D17
West
< 1/8
0.070 mi.
368 ft.

GALLUP SILKWORTH PETROLEUM
2141 S STATE ST
ANN ARBOR, MI 48104

MI AST 1000293044
RCRA NonGen / NLR MID982622375
FINDS
ECHO

Site 5 of 8 in cluster D

Relative:
Higher
Actual:
836 ft.

AST:
Name: GALLUP SILKWORTH PETRO PRODUCTS
Address: 2141 S STATE ST
City: ANN ARBOR
Zip: 48104-8101
Facility ID: 92081001
Owner Name: GALLUP SILKWORTH
Owner Address: PO BOX 1004
Owner City,St,Zip: ANN ARBOR, MI 48106-1004
District: 1
Date of Collection: 01/11/2001
Accuracy: 100 FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Horizontal Datum: NAD83
Latitude: 42.2562780
Longitude: -83.739588

Tank Id: ATK-055634-15
Tank Status: Removed from Premises

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GALLUP SILKWORTH PETROLEUM (Continued)

1000293044

Capacity (in gallons): 30000
 Installation Date: Not reported
 Substance Stored: Other
 Removed/Closed Date: 05/20/1993

RCRA NonGen / NLR:

Date Form Received by Agency: 19890410
 Handler Name: GALLUP SILKWORTH PETROLEUM
 Handler Address: 2141 S STATE ST
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MID982622375
 Contact Name: CHUCK MCELROY
 Contact Address: 2141 S STATE ST
 Contact City,State,Zip: ANN ARBOR, MI 48104
 Contact Telephone: 313-769-8401
 Contact Fax: Not reported
 Contact Email: Not reported
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Other
 Federal Waste Generator Description: Not a generator, verified
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Not reported
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: PO BOX 1004
 Mailing City,State,Zip: ANN ARBOR, MI 48106
 Owner Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
 Owner Type: Private
 Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
 Operator Type: Private
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No
 Underground Injection Control: No
 Off-Site Waste Receipt: No
 Universal Waste Indicator: No
 Universal Waste Destination Facility: No
 Federal Universal Waste: No
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
 Active Site Converter Refinement Storage and Disposal Facility: Not reported
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
 Active Site State-Reg Handler: ---
 Federal Facility Indicator: Not reported
 Hazardous Secondary Material Indicator: NN
 Sub-Part K Indicator: Not reported
 Commercial TSD Indicator: No
 Treatment Storage and Disposal Type: Not reported
 2018 GPRA Permit Baseline: Not on the Baseline
 2018 GPRA Renewals Baseline: Not on the Baseline

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GALLUP SILKWORTH PETROLEUM (Continued)

1000293044

Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19700103
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19700103
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP SILKWORTH PETROLEUM (Continued)

1000293044

Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19890410
Handler Name: GALLUP SILKWORTH PETROLEUM
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110003631437

Click Here:

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.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GALLUP SILKWORTH PETROLEUM (Continued)

1000293044

ECHO:

Envid: 1000293044
 Registry ID: 110003631437
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003631437>
 Name: (FORMER) GALCORP BULK PLANT
 Address: 2141 S STATE ST
 City,State,Zip: ANN ARBOR, MI 48104

D18
West
< 1/8
0.070 mi.
368 ft.

GALLUP-SILKWORTH COMPANYINC
2141-2151 S STATE
ANN ARBOR, MI 48104

EDR Hist Auto

1020242724
N/A

Site 6 of 8 in cluster D

Relative:
Higher

EDR Hist Auto

Actual:
836 ft.

Year:	Name:	Type:
1971	GALLUP-SILKWORTH CO*	Fuel Oil Dealers
1972	GALLUP-SILKWORTH CO*	Fuel Oil Dealers
1973	GALLUP-SILKWORTH CO*	Fuel Oil Dealers
1974	GALLUP-SILKWORTH CO*	Fuel Oil Dealers
1974	GALLUP-SILKWORTH COMPANYINC	Fuel Oil Dealers
1975	GALLUP-SILKWORTH COMPANY*	Fuel Oil Dealers
1975	GALLUP-SILKWORTH CO*	Fuel Oil Dealers
1976	GALLUP-SILKWORKTH COMPANY*	Fuel Oil Dealers
1977	GALLUP-SILKWORTH COMPANY*	Fuel Oil Dealers
1978	GALLUP-SILKWORTH COMPANY*	Fuel Oil Dealers
1979	GALLUP-SILKWORTH COMPANY*	Fuel Oil Dealers
1980	GALLUP-SILKWORTH CO*	Gasoline Service Stations
1982	GALLUP-SILKWORTH INC	Gasoline Service Stations
1983	GALLUP-SILKWORTH INC	Gasoline Service Stations
1985	GALLUP-SILKWORTH INC	Gasoline Service Stations
1986	GALLUP-SILKWORTH INC	Petroleum Bulk Stations And Terminals
1987	GALLUP-SILKWORTH INC	Petroleum Bulk Stations And Terminals
1988	GALCORP	Gasoline Service Stations
1988	HOP-IN FOOD STORES INC	Petroleum Bulk Stations And Terminals
1988	GALCORP	Petroleum Bulk Stations And Terminals
1989	GALCORP	Petroleum Bulk Stations And Terminals, NEC
1989	HOP-IN FOOD STORES INC	Petroleum Bulk Stations And Terminals, NEC
1990	GALCORP	Petroleum Bulk Stations And Terminals, NEC
1991	HOP-IN MICHIGAN INC	Convenience Stores
1992	HOP-IN MICHIGAN INC	Convenience Stores
1993	HOP-IN MICHIGAN INC	Gasoline Service Stations, NEC
1994	HOP-IN MICHIGAN INC	Gasoline Service Stations, NEC
1994	SILMIC CORPORATION	Engine Fuels And Oils

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

D19
West
< 1/8
0.070 mi.
368 ft.

GALLUP-SILKWORTH INC
2141 S STATE ST
ANN ARBOR, MI 48104
Site 7 of 8 in cluster D

MI LUST **U002303287**
MI UST **N/A**
MI INVENTORY
MI BEA

Relative:
Higher
Actual:
836 ft.

LUST:
Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00010607
Source: STATE OF MICHIGAN
Owner Name: NO ACCELA OWNER FOUND
Owner Address: UNKNOWN
Owner City,St,Zip: UNKNOWN, MI 00000-0000
Owner Contact: Not reported
Owner Phone: (616) 795-3364
Country: USA
District: Jackson
Site Name: Galcorp Bulk Plant
Latitude: 42.25627
Longitude: -83.73958
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0573-90
Release Date: 04/02/1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0576-90
Release Date: 04/03/1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1603-92
Release Date: 09/16/1992
Substance Released: Heating Oil,Used Oil
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-2053-90
Release Date: 10/12/1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

UST:

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED
Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 9
Capacity: 12000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/23/1985
Remove Date: 12/12/1994
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627
Longitude: -83.73958

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED
Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 8
Capacity: 1000
Tank Status: Removed from Ground
Substance: Kerosene
Install Date: 04/23/1980
Remove Date: 10/05/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627
Longitude: -83.73958

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED
Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 7
Capacity: 1000
Tank Status: Removed from Ground
Substance: Other(FUEL OIL)
Install Date: 04/23/1980
Remove Date: 10/05/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.25627
Longitude:	-83.73958
Name:	GALLUP-SILKWORTH INC
Address:	2141 S STATE ST
City,State,Zip:	ANN ARBOR 48104-8101
Facility Type:	CLOSED
Facility ID:	00010607
Owner Name:	GALCORP
Owner Address:	4743 VENTURE DR
Owner City:	ANN ARBOR
Owner State:	MI
Owner Zip:	48108-9560
Owner Contact:	Not reported
Owner Phone:	7347698100
Contact:	CYNTHIA JAYSON
Contact Phone:	(734) 213-6237
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 2 - Jackson District Office
Tank ID:	6
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Other(FUEL OIL)
Install Date:	04/23/1980
Remove Date:	10/05/1992
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.25627
Longitude:	-83.73958
Name:	GALLUP-SILKWORTH INC
Address:	2141 S STATE ST
City,State,Zip:	ANN ARBOR 48104-8101
Facility Type:	CLOSED
Facility ID:	00010607
Owner Name:	GALCORP
Owner Address:	4743 VENTURE DR
Owner City:	ANN ARBOR
Owner State:	MI
Owner Zip:	48108-9560

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 5
Capacity: 20000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/24/1979
Remove Date: 06/03/1995
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627
Longitude: -83.73958

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED
Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 4
Capacity: 20000
Tank Status: Removed from Ground
Substance: Kerosene

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

Install Date: 04/24/1979
Remove Date: 06/03/1995
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627
Longitude: -83.73958

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED
Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 3
Capacity: 20000
Tank Status: Removed from Ground
Substance: Diesel
Install Date: 04/24/1979
Remove Date: 06/03/1995
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627
Longitude: -83.73958

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 2
Capacity: 20000
Tank Status: Removed from Ground
Substance: Other(FUEL OIL)
Install Date: 04/24/1979
Remove Date: 06/03/1995
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627
Longitude: -83.73958

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED
Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 13
Capacity: 8000
Tank Status: Removed from Ground
Substance: Used Oil
Install Date: Not reported
Remove Date: 06/02/1995
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627
Longitude: -83.73958

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED
Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 12
Capacity: 4000
Tank Status: Removed from Ground
Substance: Diesel
Install Date: 04/23/1956
Remove Date: 04/02/1990
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

Longitude: -83.73958

[Click this hyperlink](#) while viewing on your computer to access
3 additional MI_UST: record(s) in the EDR Site Report.

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR 48104-8101
Facility Type: CLOSED
Facility ID: 00010607
Owner Name: GALCORP
Owner Address: 4743 VENTURE DR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-9560
Owner Contact: Not reported
Owner Phone: 7347698100
Contact: CYNTHIA JAYSON
Contact Phone: (734) 213-6237
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 11
Capacity: 2000
Tank Status: Closed in Ground
Substance: Diesel
Install Date: 04/23/1956
Remove Date: 04/19/1990
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25627
Longitude: -83.73958

INVENTORY:

Name: GALLUP-SILKWORTH INC
Address: 2141 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Risks Present but Not Immediate
Location ID: 5188
Lust Name: Galcorp Bulk Plant
Regulatory Program: 3
Release Status: Open
Project Manager: Hamel, Daniel

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GALLUP-SILKWORTH INC (Continued)

U002303287

Latitude: 42.256278
 Longitude: -83.739588

BEA:

Name: GALLUP-SILKWORTH INC
 Address: 2141 S STATE ST
 City,State,Zip: ANN ARBOR, MI 48104
 Secondary Address: Not reported
 BEA Number: Not reported
 District: Not reported
 Date Received: 10/30/2018
 Submitter Name: Not reported
 Petition Determination: Not reported
 Petition Disclosure: Not reported
 Category: Not reported
 Determination 20107A: Not reported
 Reviewer: Not reported
 Division Assigned: Not reported
 Location ID: 00010607
 Submittal Type: Baseline Environmental Assessment
 Submittal Number: B201801691JK
 Approval Status: RRD Received
 Workflow Status: Submitted
 Date Submitted: 2018-10-31 14:43:31
 Date Completed: Not reported
 Township: Ann Arbor
 Work Unit: Jackson
 Comments: Not reported
 Organization: 2141 South State Street LLC
 Contact: Jeremy Efros
 Contact Type: Submitter Contact

D20
West
< 1/8
0.070 mi.
368 ft.

GALLUP SILKWORTH
2141 S STATE ST
ANN ARBOR, MI 48104

MI AST 1004114640
MI WDS N/A

Site 8 of 8 in cluster D

Relative:
Higher
Actual:
836 ft.

AST:
 Name: GALLUP SILKWORTH
 Address: 2141 S STATE ST
 City: ANN ARBOR
 Zip: 48104-8101
 Facility ID: 91081029
 Owner Name: GALLUP SILKWORTH
 Owner Address: PO BOX 1004
 Owner City,St,Zip: ANN ARBOR, MI 48106-1004
 District: 1
 Date of Collection: 01/11/2001
 Accuracy: 100 FEET
 Source: STATE OF MICHIGAN
 Point Line Area: POINT
 Description Category: Plant Entrance (Freight)
 Method of Collection: Address Matching-House Number
 Horizontal Datum: NAD83
 Latitude: 42.2562780
 Longitude: -83.739588

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP SILKWORTH (Continued)

1004114640

Tank Id: ATK-004392-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 08/01/1991

Tank Id: ATK-039768-15
Tank Status: Removed from Premises
Capacity (in gallons): 1000
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 11/07/1992

Tank Id: ATK-099270-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 11/07/1992

Tank Id: ATK-075907-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 08/01/1991

Tank Id: ATK-075922-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 08/01/1991

Tank Id: ATK-011797-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 11/07/1992

Tank Id: ATK-016754-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 08/01/1991

WDS:
Name: GALLUP SILKWORTH PETROLEUM

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GALLUP SILKWORTH (Continued)

1004114640

Address: 2141 S STATE ST
 City,State,Zip: ANN ARBOR, MI 48104
 Site Id: MID982622375
 WMD Id: 401388
 Site Specific Name: GALLUP SILKWORTH PETROLEUM
 Mailing Address: PO BOX 1004
 Mailing City/State/Zip: 48106
 Mailing County: WASHTENAW

**C21
 SE
 < 1/8
 0.071 mi.
 377 ft.**

**MAACO AUTO PAINTING & BODYWORKS
 2255 S INDUSTRIAL HWY
 ANN ARBOR, MI 48104**
Site 2 of 3 in cluster C

**RCRA NonGen / NLR
 FINDS
 ECHO**

**1000175086
 MID981951551**

**Relative:
 Higher
 Actual:
 828 ft.**

RCRA NonGen / NLR:
 Date Form Received by Agency: 20031231
 Handler Name: MAACO AUTO PAINTING & BODYWORKS
 Handler Address: 2255 S INDUSTRIAL HWY
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MID981951551
 Contact Name: JOHN JAREMA
 Contact Address: 2255 S INDUSTRIAL HWY
 Contact City,State,Zip: ANN ARBOR, MI 48104
 Contact Telephone: 313-994-4805
 Contact Fax: Not reported
 Contact Email: Not reported
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Other
 Federal Waste Generator Description: Not a generator, verified
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Not reported
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 2255 S INDUSTRIAL HWY
 Mailing City,State,Zip: ANN ARBOR, MI 48104
 Owner Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
 Owner Type: Private
 Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
 Operator Type: Private
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No
 Underground Injection Control: No
 Off-Site Waste Receipt: No
 Universal Waste Indicator: No
 Universal Waste Destination Facility: No
 Federal Universal Waste: No
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
 Active Site Converter Treatment storage and Disposal Facility: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MAACO AUTO PAINTING & BODYWORKS (Continued)

1000175086

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20030101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAACO AUTO PAINTING & BODYWORKS (Continued)

1000175086

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 20030101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 20030101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 20030101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20031231
Handler Name: MAACO AUTO PAINTING & BODYWORKS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19880722
Handler Name: MAACO AUTO PAINTING & BODYWORKS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAACO AUTO PAINTING & BODYWORKS (Continued)

1000175086

Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violation:

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 19931007
Evaluation Responsible Agency: State
Found Violation: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAACO AUTO PAINTING & BODYWORKS (Continued)

1000175086

Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:

Registry ID: 110003625328

[Click Here:](#)

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.

Registry ID: 110003603468

[Click Here:](#)

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:	1000175086
Registry ID:	110003625328
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003625328
Name:	MAACO AUTO PAINTING & BODYWORKS
Address:	2255 S INDUSTRIAL HWY
City,State,Zip:	ANN ARBOR, MI 48104

Envid:	1000175086
Registry ID:	110003603468
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003603468
Name:	WASHTENAW AUTO BODY CTR INC
Address:	2255 S INDUSTRIAL HWY
City,State,Zip:	ANN ARBOR, MI 48104

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

C22
SE
 < 1/8
 0.071 mi.
 377 ft.

WASHTENAW AUTO BODY CTR INC
2255 S INDUSTRIAL HWY
ANN ARBOR, MI 48104

RCRA NonGen / NLR

1000244225
MID074212952

Site 3 of 3 in cluster C

Relative:
Higher
Actual:
828 ft.

RCRA NonGen / NLR:	
Date Form Received by Agency:	19870126
Handler Name:	WASHTENAW AUTO BODY CTR INC
Handler Address:	2255 S INDUSTRIAL HWY
Handler City,State,Zip:	ANN ARBOR, MI 48104
EPA ID:	MID074212952
Contact Name:	ED COOK
Contact Address:	2255 S INDUSTRIAL HWY
Contact City,State,Zip:	ANN ARBOR, MI 48104
Contact Telephone:	313-994-4805
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2255 S INDUSTRIAL HWY
Mailing City,State,Zip:	ANN ARBOR, MI 48104
Owner Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:	Private
Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WASHTENAW AUTO BODY CTR INC (Continued)

1000244225

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19700103
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19700103
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WASHTENAW AUTO BODY CTR INC (Continued)

1000244225

Owner/Operator Telephone: Not reported
 Owner/Operator Telephone Ext: Not reported
 Owner/Operator Fax: Not reported
 Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19870126
 Handler Name: WASHTENAW AUTO BODY CTR INC
 Federal Waste Generator Description: Not a generator, verified
 State District Owner: Not reported
 Large Quantity Handler of Universal Waste: No
 Recognized Trader Importer: No
 Recognized Trader Exporter: No
 Spent Lead Acid Battery Importer: No
 Spent Lead Acid Battery Exporter: No
 Current Record: Yes
 Non Storage Recycler Activity: Not reported
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 11131
 NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

23
SE
< 1/8
0.095 mi.
503 ft.

LTEK INDUSTRIES INC
2284 S INDUSTRIAL HWY
ANN ARBOR, MI 48104

RCRA NonGen / NLR

1007101378
MIK968193821

Relative:
Lower
Actual:
827 ft.

RCRA NonGen / NLR:
 Date Form Received by Agency: 20011109
 Handler Name: LTEK INDUSTRIES INC
 Handler Address: 2284 S INDUSTRIAL HWY
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MIK968193821
 Contact Name: VICCI STAMPS
 Contact Address: 2284 S INDUSTRIAL HWY
 Contact City,State,Zip: ANN ARBOR, MI 48104
 Contact Telephone: 734-747-6105
 Contact Fax: Not reported
 Contact Email: Not reported
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Private
 Federal Waste Generator Description: Not a generator, verified
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LTEK INDUSTRIES INC (Continued)

1007101378

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2284 S INDUSTRIAL HWY
Mailing City, State, Zip:	ANN ARBOR, MI 48104
Owner Name:	LTEK INDUSTRIES INC
Owner Type:	Private
Operator Name:	LTEK INDUSTRIES INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LTEK INDUSTRIES INC (Continued)

1007101378

Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:

Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator: Operator
Owner/Operator Name: LTEK INDUSTRIES INC
Legal Status: Private
Date Became Current: 20011109
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: LTEK INDUSTRIES INC
Legal Status: Private
Date Became Current: 20011109
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20011109
Handler Name: LTEK INDUSTRIES INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 333512
NAICS Description: MACHINE TOOL (METAL CUTTING TYPES) MANUFACTURING

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LTEK INDUSTRIES INC (Continued)

1007101378

Facility Has Received Notices of Violations:
 Violations: No Violations Found

Evaluation Action Summary:
 Evaluations: No Evaluations Found

24
North
< 1/8
0.106 mi.
562 ft.

USARC - ANN ARBOR, MI
ANN ARBOR, MI

FUDS 1024900352
N/A

Relative:
Higher
Actual:
830 ft.

FUDS:
 EPA Region: 5
 Installation ID: MI59799F233800
 Congressional District Number: 12
 Name: USARC - ANN ARBOR, MI
 FUDS Number: E05MI0186
 City: ANN ARBOR
 State: MI
 County: WASHTENAW
 Object ID: 7179
 USACE Division: LRD
 USACE District: Louisville District (LRL)
 Status: Properties without projects
 Current Owner: Not reported
 EMS Map Link: <https://fudportal.usace.army.mil/ems/ems/inventory/map/map?id=59799>
 Eligibility: Ineligible
 Has Projects: No
 NPL Status: Not on the NPL
 Property History: Used as an Army Reserve Center

 Project Required: No
 Feature Description: Not reported
 Latitude: 42.2575
 Longitude: -83.7366667

E25
NW
< 1/8
0.111 mi.
586 ft.

ANN ARBOR PIPE & SUPPLY
20295 STATE
ANN ARBOR, MI 48104
Site 1 of 3 in cluster E

MI LUST U003758877
MI UST N/A
MI INVENTORY

Relative:
Higher
Actual:
835 ft.

LUST:
 Name: ANN ARBOR PIPE & SUPPLY
 Address: 20295 STATE
 City,State,Zip: ANN ARBOR, MI 48104-
 Facility ID: 00040424
 Source: STATE OF MICHIGAN
 Owner Name: TheGage Co
 Owner Address: Not reported
 Owner City,St,Zip: UNKNOWN, MI
 Owner Contact: Not reported
 Owner Phone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANN ARBOR PIPE & SUPPLY (Continued)

U003758877

Country: USA
District: Jackson
Site Name: Ann Arbor Pipe & Supply
Latitude: 42.25713
Longitude: -83.73901
Date of Collection: 10/21/2008
Method of Collection: Interpolation-Map
Accuracy: 15
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Not reported
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0542-00
Release Date: 06/20/2000
Substance Released: Diesel
Release Status: Closed
Release Closed Date: 10/02/2000

UST:

Name: ANN ARBOR PIPE & SUPPLY
Address: 20295 STATE
City,State,Zip: ANN ARBOR 48104
Facility Type: CLOSED
Facility ID: 00040424
Owner Name: THE GAGE CO
Owner Address: PO BOX 658
Owner City: LIBRARY
Owner State: PA
Owner Zip: 15129-0658
Owner Contact: Not reported
Owner Phone: 7244447675
Contact: MR GARY VANLUVEN
Contact Phone: 734-444-7675
Date of Collection: 10/21/2008
Accuracy: 15
Horizontal Datum: NAD83
Accuracy Value Unit: METERS
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 1000
Tank Status: Removed from Ground
Substance: Other(MOTOR/FUEL)
Install Date: 01/01/1986
Remove Date: 06/12/2000
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ANN ARBOR PIPE & SUPPLY (Continued)

U003758877

Pipe Release Detection: Not reported
 Piping Material: Not reported
 Piping Type: Not reported
 Tank Construction: Not reported
 Impressed Device: Not reported
 Latitude: 42.25713
 Longitude: -83.73901

INVENTORY:

Name: ANN ARBOR PIPE & SUPPLY
 Address: 20295 STATE
 City,State,Zip: ANN ARBOR, MI 48104
 Township: Ann Arbor
 District: Jackson
 Data Source: Not reported
 Location ID: 43989
 Lust Name: Ann Arbor Pipe & Supply
 Regulatory Program: 113
 Release Status: Closed
 Project Manager: Hiske, Terry
 Latitude: 42.25713
 Longitude: -83.73901

F26
ESE
< 1/8
0.115 mi.
606 ft.

RONS GARAGE
1130 ROSEWOOD ST
ANN ARBOR, MI 48104
Site 1 of 2 in cluster F

RCRA-VSQG 1004723507
FINDS MID985622273
ECHO

Relative:
Higher
Actual:
828 ft.

RCRA-VSQG:
 Date Form Received by Agency: 19910909
 Handler Name: RONS GARAGE
 Handler Address: 1130 ROSEWOOD ST
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MID985622273
 Contact Name: RON COWEN
 Contact Address: 1130 ROSEWOOD ST
 Contact City,State,Zip: ANN ARBOR, MI 48104
 Contact Telephone: 313-662-8379
 Contact Fax: Not reported
 Contact Email: Not reported
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Private
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 1130 ROSEWOOD ST
 Mailing City,State,Zip: ANN ARBOR, MI 48104
 Owner Name: COWEN RON
 Owner Type: Private
 Operator Name: COWEN RON
 Operator Type: Private

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RON'S GARAGE (Continued)

1004723507

Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RON'S GARAGE (Continued)

1004723507

Hazardous Waste Summary:

Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: COWEN RON
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: COWEN RON
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19910909
Handler Name: RONS GARAGE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RONS GARAGE (Continued)

1004723507

FINDS:

Registry ID: 110003662992

Click Here:

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: 1004723507
 Registry ID: 110003662992
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003662992>
 Name: RONS GARAGE
 Address: 1130 ROSEWOOD ST
 City,State,Zip: ANN ARBOR, MI 48104

G27
West
< 1/8
0.122 mi.
643 ft.

2235 & 2245 S STATE
2235 & 2245 S STATE
WASHTENAW (County), MI 48104
Site 1 of 2 in cluster G

MI INVENTORY **S127499220**
MI BEA **N/A**

Relative:
Higher
Actual:
853 ft.

INVENTORY:
 Name: 2235 & 2245 S STATE
 Address: 2235 & 2245 S STATE
 City,State,Zip: MI 48104
 Township: Ann Arbor City
 District: Jackson
 Data Source: Risks Not Determined
 Location ID: 75780
 Lust Name: Not reported
 Regulatory Program: 01
 Release Status: Not reported
 Project Manager: Tiernan, Gerald
 Latitude: 42.255
 Longitude: -83.7396

BEA:

Name: 2235 & 2245 S STATE
 Address: 2235 & 2245 S STATE
 City,State,Zip: MI 48104
 Secondary Address: Not reported
 BEA Number: Not reported
 District: Not reported
 Date Received: 03/29/2006
 Submitter Name: Not reported
 Petition Determination: Not reported
 Petition Disclosure: Not reported
 Category: Not reported
 Determination 20107A: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

2235 & 2245 S STATE (Continued)

S127499220

Reviewer: Not reported
 Division Assigned: Not reported
 Location ID: 81000725
 Submittal Type: Baseline Environmental Assessment
 Submittal Number: B200600711JK
 Approval Status: RRD Received
 Workflow Status: Submitted
 Date Submitted: 2006-03-29 14:12:31
 Date Completed: Not reported
 Township: Ann Arbor City
 Work Unit: Jackson
 Comments: RECORD MANAGER
 Organization: McKinley Executive Centre LLC
 Contact: Stephen Palms
 Contact Type: Submitter Contact

Name: 2235 & 2245 S STATE
 Address: 2235 & 2245 S STATE
 City,State,Zip: MI 48104
 Secondary Address: Not reported
 BEA Number: Not reported
 District: Not reported
 Date Received: 03/29/2006
 Submitter Name: Not reported
 Petition Determination: Not reported
 Petition Disclosure: Not reported
 Category: Not reported
 Determination 20107A: Not reported
 Reviewer: Not reported
 Division Assigned: Not reported
 Location ID: 81000725
 Submittal Type: Baseline Environmental Assessment
 Submittal Number: B200600710JK
 Approval Status: RRD Received
 Workflow Status: Submitted
 Date Submitted: 2006-03-29 14:06:59
 Date Completed: Not reported
 Township: Ann Arbor City
 Work Unit: Jackson
 Comments: RECORD MANAGER
 Organization: MEC Land LLC
 Contact: Stephen Palms
 Contact Type: Submitter Contact

G28
West
< 1/8
0.122 mi.
643 ft.

GALLUP SILKWORTH
2151 S STATE ST
ANN ARBOR, MI 48104
Site 2 of 2 in cluster G

MI AST A100269127
N/A

Relative:
Higher
Actual:
853 ft.

AST:
 Name: GALLUP SILKWORTH
 Address: 2151 S STATE ST
 City: ANN ARBOR
 Zip: 48104-6105
 Facility ID: 91081001
 Owner Name: GALLUP SILKWORTH
 Owner Address: PO BOX 1004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALLUP SILKWORTH (Continued)

A100269127

Owner City,St,Zip: ANN ARBOR, MI 48106-1004
District: 1
Date of Collection: 01/11/2001
Accuracy: 100 FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Horizontal Datum: NAD83
Latitude: 42.2562010
Longitude: -83.739588

Tank Id: ATK-067154-15
Tank Status: Pipe Disconnected
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 07/23/1991

Tank Id: ATK-000496-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 09/01/1991

Tank Id: ATK-067148-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 09/01/1991

Tank Id: ATK-067141-15
Tank Status: Removed from Premises
Capacity (in gallons): Not reported
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 09/01/1991

H29
WSW
< 1/8
0.123 mi.
647 ft.

ASCENDANT MDX INC
2245 S STATE ST
ANN ARBOR, MI 48104

Site 1 of 4 in cluster H

RCRA NonGen / NLR **1011862709**
FINDS **MIK682936240**
ECHO

Relative:
Higher
Actual:
850 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20181205
Handler Name: ASCENDANT MDX INC
Handler Address: 2245 S STATE ST
Handler City,State,Zip: ANN ARBOR, MI 48104
EPA ID: MIK682936240
Contact Name: JAY STOERKER
Contact Address: Not reported
Contact City,State,Zip: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ASCENDANT MDX INC (Continued)

1011862709

Contact Telephone:	508-240-6783
Contact Fax:	Not reported
Contact Email:	JAY.STOERKER@AMDXMLABS.COM
Contact Title:	Not reported
EPA Region:	05
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2245 S STATE ST
Mailing City, State, Zip:	ANN ARBOR, MI 48104
Owner Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:	Private
Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ASCENDANT MDX INC (Continued)

1011862709

Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20181212
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Hazardous Waste Summary:

Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: MIKE BLEAVINS
Legal Status: Private
Date Became Current: 20070301
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MIKE BLEAVINS
Legal Status: Private
Date Became Current: 20070301
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 20181205
Date Ended Current: Not reported
Owner/Operator Address: 2245 S STATE ST
Owner/Operator City,State,Zip: ANN ARBOR, MI 48104-6186
Owner/Operator Telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ASCENDANT MDX INC (Continued)

1011862709

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MIKE BLEAVINS
Legal Status:	Private
Date Became Current:	20070301
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	ASCENDANT MDX INC
Legal Status:	Private
Date Became Current:	20120510
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	MIKE BLEAVINS
Legal Status:	Private
Date Became Current:	20070301
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20181205
Date Ended Current:	Not reported
Owner/Operator Address:	2245 S STATE ST
Owner/Operator City,State,Zip:	ANN ARBOR, MI 48104-6186
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	ASCENDANT MDX INC
Legal Status:	Private
Date Became Current:	20120510
Date Ended Current:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ASCENDANT MDX INC (Continued)

1011862709

Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19800101
Handler Name: MICHIGAN TECHNOLOGY AND RESEARCH INSTITUTE LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20181205
Handler Name: ASCENDANT MDX INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20080723
Handler Name: MICHIGAN TECHNOLOGY AND RESEARCH INSTITUTE LLC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130214
Handler Name: ASCENDANT MDX INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ASCENDANT MDX INC (Continued)

1011862709

Non Storage Recycler Activity: Not reported
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 621511
 NAICS Description: MEDICAL LABORATORIES

NAICS Code: 81392
 NAICS Description: PROFESSIONAL ORGANIZATIONS

Facility Has Received Notices of Violation:

Found Violation: No
 Agency Which Determined Violation: Not reported
 Violation Short Description: Not reported
 Date Violation was Determined: Not reported
 Actual Return to Compliance Date: Not reported
 Return to Compliance Qualifier: Not reported
 Violation Responsible Agency: Not reported
 Scheduled Compliance Date: Not reported
 Enforcement Identifier: Not reported
 Date of Enforcement Action: Not reported
 Enforcement Responsible Agency: Not reported
 Enforcement Docket Number: Not reported
 Enforcement Attorney: Not reported
 Corrective Action Component: Not reported
 Appeal Initiated Date: Not reported
 Appeal Resolution Date: Not reported
 Disposition Status Date: Not reported
 Disposition Status: Not reported
 Disposition Status Description: Not reported
 Consent/Final Order Sequence Number: Not reported
 Consent/Final Order Respondent Name: Not reported
 Consent/Final Order Lead Agency: Not reported
 Enforcement Type: Not reported
 Enforcement Responsible Person: Not reported
 Enforcement Responsible Sub-Organization: Not reported
 SEP Sequence Number: Not reported
 SEP Expenditure Amount: Not reported
 SEP Scheduled Completion Date: Not reported
 SEP Actual Date: Not reported
 SEP Defaulted Date: Not reported
 SEP Type: Not reported
 SEP Type Description: Not reported
 Proposed Amount: Not reported
 Final Monetary Amount: Not reported
 Paid Amount: Not reported
 Final Count: Not reported
 Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 20181204
 Evaluation Responsible Agency: State
 Found Violation: No
 Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Evaluation Responsible Person Identifier: Not reported
 Evaluation Responsible Sub-Organization: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ASCENDANT MDX INC (Continued)

1011862709

Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

FINDS:

Registry ID: 110037398688

Click Here:

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: 1011862709
Registry ID: 110037398688
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110037398688>
Name: ASCENDANT MDX INC
Address: 2245 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104

H30
WSW
< 1/8
0.123 mi.
647 ft.

TOWNSEND & BOTTUM, INC
2245 S STATE ST
ANN ARBOR, MI 48104
Site 2 of 4 in cluster H

MI UST **U003867039**
N/A

Relative:
Higher
Actual:
850 ft.

UST:
Name: TOWNSEND & BOTTUM, INC
Address: 2245 S STATE ST
City,State,Zip: ANN ARBOR 48104-6184
Facility Type: CLOSED
Facility ID: 00011132
Owner Name: TOWNSEND & BOTTUM, INC
Owner Address: 2245 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7347613440
Contact: DAVID G. LAITY
Contact Phone: (734) 761-3440
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TOWNSEND & BOTTUM, INC (Continued)

U003867039

Point Line Area: POINT
 Desc Category: Plant Entrance (Freight)
 Method of Collection: Address Matching-House Number
 District: Region 2 - Jackson District Office
 Tank ID: 1
 Capacity: 550
 Tank Status: Removed from Ground
 Substance: Gasoline
 Install Date: 05/06/1970
 Remove Date: 05/23/1991
 Tank Number: Not reported
 Tank Details Compartments: Not reported
 Tank Release Detection: Not reported
 Pipe Release Detection: Not reported
 Piping Material: Not reported
 Piping Type: Not reported
 Tank Construction: Not reported
 Impressed Device: Not reported
 Latitude: 42.25513
 Longitude: -83.73954

F31
ESE
< 1/8
0.123 mi.
650 ft.

FULL AUTO
1150 ROSEWOOD ST
ANN ARBOR, MI 48104
Site 2 of 2 in cluster F

RCRA-VSQG 1010320672
MIK694498635

Relative:
Higher
Actual:
828 ft.

RCRA-VSQG:
 Date Form Received by Agency: 20080731
 Handler Name: FULL AUTO
 Handler Address: 1150 ROSEWOOD ST
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MIK694498635
 Contact Name: MICHAEL DURSTON
 Contact Address: 1150 ROSEWOOD ST
 Contact City,State,Zip: ANN ARBOR, MI 48104
 Contact Telephone: 734-668-8245
 Contact Fax: Not reported
 Contact Email: Not reported
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Private
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 1150 ROSEWOOD ST
 Mailing City,State,Zip: ANN ARBOR, MI 48104
 Owner Name: MICHAEL J DURSTON
 Owner Type: Private
 Operator Name: MICHAEL J DURSTON
 Operator Type: Private
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FULL AUTO (Continued)

1010320672

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code: D001
 Waste Description: IGNITABLE WASTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FULL AUTO (Continued)

1010320672

Handler - Owner Operator:

Owner/Operator Indicator: Operator
Owner/Operator Name: MICHAEL J DURSTON
Legal Status: Private
Date Became Current: 20080301
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MICHAEL J DURSTON
Legal Status: Private
Date Became Current: 20080301
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MICHAEL J DURSTON
Legal Status: Private
Date Became Current: 20080301
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MICHAEL J DURSTON
Legal Status: Private
Date Became Current: 20080301
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MICHAEL J DURSTON
Legal Status: Private
Date Became Current: 20080301
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FULL AUTO (Continued)

1010320672

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MICHAEL J DURSTON
Legal Status: Private
Date Became Current: 20080301
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19800101
Handler Name: FULL AUTO
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20061024
Handler Name: FULL AUTO
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20080731
Handler Name: FULL AUTO
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FULL AUTO (Continued)

1010320672

List of NAICS Codes and Descriptions:

NAICS Code: 811111
 NAICS Description: GENERAL AUTOMOTIVE REPAIR

NAICS Code: 81112
 NAICS Description: AUTOMOTIVE BODY, PAINT, INTERIOR, AND GLASS REPAIR

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

H32
WSW
1/8-1/4
0.137 mi.
724 ft.

2235 & 2245 S STATE
ANN ARBOR CITY, MI 48104

MI BEA S107812200
N/A

Site 3 of 4 in cluster H

Relative:
Higher
Actual:
859 ft.

BEA:
 Name: Not reported
 Address: 2235 & 2245 S STATE
 City,State,Zip: ANN ARBOR CITY, MI 48104
 Secondary Address: Not reported
 BEA Number: 710
 District: Jackson
 Date Received: 03/29/2006
 Submitter Name: MEC Land LLC
 Petition Determination: No Request
 Petition Disclosure: 0
 Category: D
 Determination 20107A: No Request
 Reviewer: katkov
 Division Assigned: ERD
 Location ID: Not reported
 Submittal Type: Not reported
 Submittal Number: Not reported
 Approval Status: Not reported
 Workflow Status: Not reported
 Date Submitted: Not reported
 Date Completed: Not reported
 Township: Not reported
 Work Unit: Not reported
 Comments: Not reported
 Organization: Not reported
 Contact: Not reported
 Contact Type: Not reported

Name: Not reported
 Address: 2235 & 2245 S STATE
 City,State,Zip: ANN ARBOR CITY, MI 48104
 Secondary Address: Not reported
 BEA Number: 711
 District: Jackson
 Date Received: 03/29/2006

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S107812200

Submitter Name:	McKinley Executive Centre LLC
Petition Determination:	No Request
Petition Disclosure:	0
Category:	D
Determination 20107A:	No Request
Reviewer:	katkov
Division Assigned:	ERD
Location ID:	Not reported
Submittal Type:	Not reported
Submittal Number:	Not reported
Approval Status:	Not reported
Workflow Status:	Not reported
Date Submitted:	Not reported
Date Completed:	Not reported
Township:	Not reported
Work Unit:	Not reported
Comments:	Not reported
Organization:	Not reported
Contact:	Not reported
Contact Type:	Not reported

E33 **WEST HAWK IND**
NW **1717 S STATE ST**
1/8-1/4 **ANN ARBOR, MI 48104**
0.142 mi.
748 ft. **Site 2 of 3 in cluster E**

MI LUST **U003758787**
MI UST **N/A**
MI INVENTORY

Relative:	LUST:	
Higher	Name:	WEST HAWK IND
	Address:	1717 S STATE ST
	City,State,Zip:	ANN ARBOR, MI 48104-
	Facility ID:	00040302
	Source:	STATE OF MICHIGAN
	Owner Name:	HARRYHAWKINS
	Owner Address:	Not reported
	Owner City,St,Zip:	UNKNOWN, MI
	Owner Contact:	Not reported
	Owner Phone:	Not reported
	Country:	USA
	District:	Jackson
	Site Name:	West Hawk Ind
	Latitude:	42.25757
	Longitude:	-83.73919
	Date of Collection:	01/11/2001
	Method of Collection:	Interpolation-Map
	Accuracy:	100
	Accuracy Value Unit:	FEET
	Horizontal Data:	NAD83
	Point Line Area:	POINT
	Desc Category:	Not reported
	Regulatory Program:	Not reported
	Risk Condition:	Not reported
	Project Manager:	Not reported
	Senate District:	Not reported
	House District:	Not reported
	US Congressional District:	Not reported
	Leak Number:	C-1231-99

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAWK IND (Continued)

U003758787

Release Date: 11/23/1999
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Name: WEST HAWK IND
Address: 1717 S STATE ST
City,State,Zip: ANN ARBOR 48104-4601
Facility Type: CLOSED
Facility ID: 00040302
Owner Name: HARRY HAWKINS
Owner Address: 1717 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-4601
Owner Contact: Not reported
Owner Phone: 8006781286
Contact: HARRY HAWKINS
Contact Phone: (800) 678-1286
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map
District: Region 2 - Jackson District Office
Tank ID: 2
Capacity: 1000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 11/22/1999
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25757
Longitude: -83.73919

Name: WEST HAWK IND
Address: 1717 S STATE ST
City,State,Zip: ANN ARBOR 48104-4601
Facility Type: CLOSED
Facility ID: 00040302
Owner Name: HARRY HAWKINS
Owner Address: 1717 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-4601
Owner Contact: Not reported
Owner Phone: 8006781286

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAWK IND (Continued)

U003758787

Contact: HARRY HAWKINS
Contact Phone: (800) 678-1286
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 11/22/1999
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25757
Longitude: -83.73919

INVENTORY:

Name: WEST HAWK IND
Address: 1717 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Risks Present but Not Immediate
Location ID: 55382
Lust Name: West Hawk Ind
Regulatory Program: 13
Release Status: Open
Project Manager: Govus, Ray
Latitude: 42.25757
Longitude: -83.73919

E34
NW
1/8-1/4
0.142 mi.
748 ft.

COOCH DRAIN
1717 SOUTH STATE
ANN ARBOR, MI 48104

Site 3 of 3 in cluster E

MI PART 201 S105144769
MI INVENTORY N/A

Relative:
Higher
Actual:
838 ft.

PART 201:
Facility ID: 81000161
Facility Status: Inactive - no actions taken to address contamination
Source: Nonclassifiable Establishments
SAM Score: 32
SAM Score Date: 06/21/2004
Township: 02S
Range: 06E

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

COOCH DRAIN (Continued)

S105144769

Section: 33
 Quarter: SW
 Quarter/Quarter: SW
 Pollutants: Gasoline; Petroleum

INVENTORY:

Name: COOCH DRAIN
 Address: 1717 SOUTH STATE
 City,State,Zip: ANN ARBOR, MI 48104
 Township: Not reported
 District: Jackson
 Data Source: Risks Not Determined
 Location ID: 3557
 Last Name: Not reported
 Regulatory Program: 201
 Release Status: Not reported
 Project Manager: Hamel, Daniel
 Latitude: 42.263102
 Longitude: -83.740854

**I35
 ESE
 1/8-1/4
 0.144 mi.
 758 ft.**

**PROFESSIONAL AUTOMOTIVE TECH
 1225 JEWETT ST
 ANN ARBOR, MI 48104**

**RCRA-VSQG 1000228586
 FINDS MID091959098
 ECHO**

Site 1 of 3 in cluster I

**Relative:
 Lower
 Actual:
 827 ft.**

RCRA-VSQG:
 Date Form Received by Agency: 20021231
 Handler Name: PROFESSIONAL AUTOMOTIVE TECH
 Handler Address: 1225 JEWETT ST
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MID091959098
 Contact Name: MIKE BITTENBENDER
 Contact Address: 1225 JEWETT ST
 Contact City,State,Zip: ANN ARBOR, MI 48104
 Contact Telephone: 313-665-9707
 Contact Fax: Not reported
 Contact Email: Not reported
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Private
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 1225 JEWETT ST
 Mailing City,State,Zip: ANN ARBOR, MI 48104
 Owner Name: POTT TIMOTHY
 Owner Type: Private
 Operator Name: POTT TIMOTHY
 Operator Type: Private
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PROFESSIONAL AUTOMOTIVE TECH (Continued)

1000228586

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code: D001
 Waste Description: IGNITABLE WASTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROFESSIONAL AUTOMOTIVE TECH (Continued)

1000228586

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: POTT TIMOTHY
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: POTT TIMOTHY
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: POTT TIMOTHY
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: POTT TIMOTHY
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19870729
Handler Name: PROFESSIONAL AUTOMOTIVE TECH
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PROFESSIONAL AUTOMOTIVE TECH (Continued)

1000228586

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20021231
Handler Name: PROFESSIONAL AUTOMOTIVE TECH
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 81111
NAICS Description: AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110003607749

Click Here:

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: 1000228586
Registry ID: 110003607749
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003607749>
Name: PROFESSIONAL AUTOMOTIVE TECH
Address: 1225 JEWETT ST
City,State,Zip: ANN ARBOR, MI 48104

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

J36
NNW
1/8-1/4
0.147 mi.
777 ft.

COLONIAL LANES PLAZA
1958 S INDUSTRIAL DR
ANN ARBOR, MI 48104

Site 1 of 4 in cluster J

RCRA NonGen / NLR
FINDS
ECHO

1016449221
MIK481290259

Relative:
Higher
Actual:
830 ft.

RCRA NonGen / NLR:		20150603
Date Form Received by Agency:		20150603
Handler Name:	COLONIAL LANES PLAZA	
Handler Address:		1958 S INDUSTRIAL DR
Handler City,State,Zip:		ANN ARBOR, MI 48104
EPA ID:		MIK481290259
Contact Name:		GREG WALLACE
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		586-295-7223
Contact Fax:		Not reported
Contact Email:		ANTONIEWICZ@PMENV.COM
Contact Title:		Not reported
EPA Region:		05
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1069 NOVI RD
Mailing City,State,Zip:		NORTHVILLE, MI 48167
Owner Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:		Private
Operator Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COLONIAL LANES PLAZA (Continued)

1016449221

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150609
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20131202
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20131202
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COLONIAL LANES PLAZA (Continued)

1016449221

Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	K&K INVESTMENT COMPANY
Legal Status:	Private
Date Became Current:	20110601
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	K&K INVESTMENT COMPANY
Legal Status:	Private
Date Became Current:	20110601
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20131202
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20131202
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Historic Generators:	
Receive Date:	20131029
Handler Name:	COLONIAL LANES PLAZA
Federal Waste Generator Description:	Small Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COLONIAL LANES PLAZA (Continued)

1016449221

State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150423
Handler Name: COLONIAL LANES PLAZA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150603
Handler Name: COLONIAL LANES PLAZA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 812320
NAICS Description: DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110056377683

Click Here:

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,

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

COLONIAL LANES PLAZA (Continued)

1016449221

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: 1016449221
 Registry ID: 110056377683
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110056377683>
 Name: COLONIAL LANES PLAZA
 Address: 1958 S INDUSTRIAL DR
 City,State,Zip: ANN ARBOR, MI 48104

**J37
 NNW
 1/8-1/4
 0.147 mi.
 777 ft.**

**MR. STADIUM COIN LAUNDRY
 1958 S INDUSTRIAL HWY
 ANN ARBOR, MI 48104**

**MI UST U003833892
 N/A**

Site 2 of 4 in cluster J

**Relative:
 Higher**

**Actual:
 830 ft.**

UST:

Name: MR. STADIUM COIN LAUNDRY
 Address: 1958 S INDUSTRIAL HWY
 City,State,Zip: ANN ARBOR 48104-4625
 Facility Type: CLOSED
 Facility ID: 00019630
 Owner Name: K+K INVESTMENT CO
 Owner Address: 1958 S INDUSTRIAL HWY
 Owner City: ANN ARBOR
 Owner State: MI
 Owner Zip: 48104
 Owner Contact: Not reported
 Owner Phone: 7346687928
 Contact: GREGORY WALLACE
 Contact Phone: (734) 668-7928
 Date of Collection: 01/11/2001
 Accuracy: 100
 Horizontal Datum: NAD83
 Accuracy Value Unit: FEET
 Source: STATE OF MICHIGAN
 Point Line Area: POINT
 Desc Category: Plant Entrance (Freight)
 Method of Collection: Address Matching-House Number
 District: Region 2 - Jackson District Office
 Tank ID: 1
 Capacity: 100
 Tank Status: Currently In Use
 Substance: Not reported
 Install Date: 05/19/1972
 Remove Date: Not reported
 Tank Number: Not reported
 Tank Details Compartments: Not reported
 Tank Release Detection: Not reported
 Pipe Release Detection: Not reported
 Piping Material: Not reported
 Piping Type: Not reported
 Tank Construction: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MR. STADIUM COIN LAUNDRY (Continued)

U003833892

Impressed Device: Not reported
 Latitude: 42.25624
 Longitude: -83.73627

**J38
 NNW
 1/8-1/4
 0.147 mi.
 777 ft.**

**MR STADIUM COIN LAUNDRY & DC
 1958 S INDUSTRIAL HW
 ANN ARBOR, MI 48104
 Site 3 of 4 in cluster J**

**MI DRYCLEANERS S123403960
 N/A**

**Relative:
 Higher
 Actual:
 830 ft.**

DRYCLEANERS:
 Name: MR STADIUM COIN LAUNDRY & DC
 Address: 1958 S INDUSTRIAL HW
 City,State,Zip: ANN ARBOR, MI 48104
 fadd2: Not reported
 Facility Status: Closed
 Establishment#: 8100003
 DCM #: Not reported
 DCM Type: Commercial
 Total lb: Not reported
 Inspector: Not reported
 Last Insp Date: Not reported

**H39
 WSW
 1/8-1/4
 0.148 mi.
 779 ft.**

**ROYAL D COLLISION
 2235 S STATE ST
 ANN ARBOR, MI 48104
 Site 4 of 4 in cluster H**

**RCRA-VSQG 1004725280
 FINDS MIR000038315
 ECHO**

**Relative:
 Higher
 Actual:
 865 ft.**

RCRA-VSQG:
 Date Form Received by Agency: 19990326
 Handler Name: ROYAL D COLLISION
 Handler Address: 2235 S STATE ST
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MIR000038315
 Contact Name: STEPHEN DOWNER
 Contact Address: 2235 S STATE ST
 Contact City,State,Zip: ANN ARBOR, MI 48104
 Contact Telephone: 734-668-8245
 Contact Fax: Not reported
 Contact Email: Not reported
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Private
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 2235 S STATE ST
 Mailing City,State,Zip: ANN ARBOR, MI 48104
 Owner Name: CRUZ MOSS TRUST
 Owner Type: Private
 Operator Name: CRUZ MOSS TRUST

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ROYAL D COLLISION (Continued)

1004725280

Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROYAL D COLLISION (Continued)

1004725280

Hazardous Waste Summary:

Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: CRUZ MOSS TRUST
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CRUZ MOSS TRUST
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19990326
Handler Name: ROYAL D COLLISION
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ROYAL D COLLISION (Continued)

1004725280

FINDS:

Registry ID: 110003709425

Click Here:

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: 1004725280
 Registry ID: 110003709425
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003709425>
 Name: ROYAL D COLLISION
 Address: 2235 S STATE ST
 City,State,Zip: ANN ARBOR, MI 48104

**J40
 NNW
 1/8-1/4
 0.152 mi.
 804 ft.**

**COLONIAL LANES PLAZA
 1956-1958 SOUTH INDUSTRIAL PKWY
 ANN ARBOR, MI 48104**

**MI INVENTORY S123340548
 N/A**

Site 4 of 4 in cluster J

**Relative:
 Higher
 Actual:
 830 ft.**

INVENTORY:
 Name: COLONIAL LANES PLAZA
 Address: 1956-1958 SOUTH INDUSTRIAL PKWY
 City,State,Zip: ANN ARBOR, MI 48104
 Township: Not reported
 District: Jackson
 Data Source: Risks Present and Immediate
 Location ID: 39074
 Lust Name: Not reported
 Regulatory Program: 01
 Release Status: Not reported
 Project Manager: Wilde, Dan
 Latitude: 42.25891969
 Longitude: -83.73829408

**K41
 SE
 1/8-1/4
 0.156 mi.
 823 ft.**

**PAINTERS SUPPLY AND EQUIPMENT CO
 2308 S INDUSTRIAL HWY
 ANN ARBOR, MI 48104**

**RCRA-VSQQ 1007101206
 MIK949471338**

Site 1 of 6 in cluster K

**Relative:
 Lower
 Actual:
 827 ft.**

RCRA-VSQQ:
 Date Form Received by Agency: 20030617
 Handler Name: PAINTERS SUPPLY AND EQUIPMENT CO
 Handler Address: 2308 S INDUSTRIAL HWY
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MIK949471338

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PAINTERS SUPPLY AND EQUIPMENT CO (Continued)

1007101206

Contact Name:	DONALD WITT
Contact Address:	2308 S INDUSTRIAL HWY
Contact City,State,Zip:	ANN ARBOR, MI 48104
Contact Telephone:	734-946-1282
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 1477
Mailing City,State,Zip:	TAYLOR, MI 48180
Owner Name:	ALLEN & OLSEN
Owner Type:	Private
Operator Name:	ALLEN & OLSEN
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PAINTERS SUPPLY AND EQUIPMENT CO (Continued)

1007101206

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALLEN & OLSEN
Legal Status:	Private
Date Became Current:	20030617
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ALLEN & OLSEN
Legal Status:	Private
Date Became Current:	20030617
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20030617
Handler Name:	PAINTERS SUPPLY AND EQUIPMENT CO
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PAINTERS SUPPLY AND EQUIPMENT CO (Continued)

1007101206

Large Quantity Handler of Universal Waste: No
 Recognized Trader Importer: No
 Recognized Trader Exporter: No
 Spent Lead Acid Battery Importer: No
 Spent Lead Acid Battery Exporter: No
 Current Record: Yes
 Non Storage Recycler Activity: Not reported
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 42495
 NAICS Description: PAINT, VARNISH, AND SUPPLIES MERCHANT WHOLESALERS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

142
SE
1/8-1/4
0.162 mi.
854 ft.

HUTZEL PLUMBING HEATING CO
1220 JEWETT ST
ANN ARBOR, MI 48104

MI LUST **U003834419**
MI UST **N/A**
MI INVENTORY

Site 2 of 3 in cluster I

Relative:
Lower
Actual:
827 ft.

LUST:
 Name: HUTZEL PLUMBING HEATING CO
 Address: 1220 JEWETT ST
 City,State,Zip: ANN ARBOR, MI 48104-
 Facility ID: 00035211
 Source: STATE OF MICHIGAN
 Owner Name: HutzelPlumbing Heating Co
 Owner Address: Not reported
 Owner City,St,Zip: UNKNOWN, MI
 Owner Contact: Not reported
 Owner Phone: Not reported
 Country: USA
 District: Jackson
 Site Name: Hutzel Plumbing
 Latitude: 42.25328
 Longitude: -83.73342
 Date of Collection: 01/11/2001
 Method of Collection: Address Matching-House Number
 Accuracy: 100
 Accuracy Value Unit: FEET
 Horizontal Data: NAD83
 Point Line Area: POINT
 Desc Category: Plant Entrance (Freight)
 Regulatory Program: Not reported
 Risk Condition: Not reported
 Project Manager: Not reported
 Senate District: Not reported
 House District: Not reported
 US Congressional District: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUTZEL PLUMBING HEATING CO (Continued)

U003834419

Leak Number: C-1411-91
Release Date: 07/17/1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: 10/31/1991

UST:

Name: HUTZEL PLUMBING HEATING CO
Address: 1220 JEWETT ST
City,State,Zip: ANN ARBOR 48104-6270
Facility Type: CLOSED
Facility ID: 00035211
Owner Name: HUTZEL PLUMBING HEATING CO
Owner Address: 2311 S INDUSTRIAL HWY
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-6125
Owner Contact: Not reported
Owner Phone: 7346659111
Contact: GENE R. CUMMINS
Contact Phone: (734) 665-9111
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 2
Capacity: 1000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 01/01/1980
Remove Date: 07/20/1991
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25328
Longitude: -83.73342

Name: HUTZEL PLUMBING HEATING CO
Address: 1220 JEWETT ST
City,State,Zip: ANN ARBOR 48104-6270
Facility Type: CLOSED
Facility ID: 00035211
Owner Name: HUTZEL PLUMBING HEATING CO
Owner Address: 2311 S INDUSTRIAL HWY
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-6125
Owner Contact: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUTZEL PLUMBING HEATING CO (Continued)

U003834419

Owner Phone: 7346659111
Contact: GENE R. CUMMINS
Contact Phone: (734) 665-9111
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 1000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 01/01/1980
Remove Date: 07/20/1991
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25328
Longitude: -83.73342

INVENTORY:

Name: HUTZEL PLUMBING HEATING CO
Address: 1220 JEWETT ST
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 55826
Lust Name: Hutzel Plumbing
Regulatory Program: 13
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.253283
Longitude: -83.733429

K43
SE
1/8-1/4
0.176 mi.
929 ft.

UNKNOWN
2310 SOUTH INDUSTRIAL HIGHWAY
ANN ARBOR CITY, MI 48104
Site 2 of 6 in cluster K

MI BEA S110364338
N/A

Relative:
Lower
Actual:
826 ft.

BEA:
Name: UNKNOWN
Address: 2310 SOUTH INDUSTRIAL HIGHWAY
City,State,Zip: ANN ARBOR CITY, MI 48104
Secondary Address: Not reported
BEA Number: 1242
District: Jackson

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNKNOWN (Continued)

S110364338

Date Received: 06/10/2013
 Submitter Name: Dusty Whitney
 Petition Determination: No Request
 Petition Disclosure: 0
 Category: Not reported
 Determination 20107A: No Request
 Reviewer: hameld
 Division Assigned: RRD
 Location ID: Not reported
 Submittal Type: Not reported
 Submittal Number: Not reported
 Approval Status: Not reported
 Workflow Status: Not reported
 Date Submitted: Not reported
 Date Completed: Not reported
 Township: Not reported
 Work Unit: Not reported
 Comments: Not reported
 Organization: Not reported
 Contact: Not reported
 Contact Type: Not reported

K44
SE
1/8-1/4
0.176 mi.
929 ft.

HANSENS COLLISION LLC
2310 S INDUSTRIAL HWY
ANN ARBOR, MI 48104
Site 3 of 6 in cluster K

SEMS-ARCHIVE 1000171416
RCRA-VSQG MID005358791
ICIS
FINDS
ECHO
NY MANIFEST

Relative:
Lower
Actual:
826 ft.

SEMS Archive:
 Site ID: 0502278
 EPA ID: MID005358791
 Name: SPECIAL METALS CORP UDIMET POWDER DIV
 Address: 2310 S INDUSTRIAL HWY
 Address 2: Not reported
 City,State,Zip: ANN ARBOR, MI 48104
 Cong District: 02
 FIPS Code: 26161
 FF: N
 NPL: Not on the NPL
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
 Region: 05
 Site ID: 0502278
 EPA ID: MID005358791
 Site Name: SPECIAL METALS CORP UDIMET POWDER DIV
 NPL: N
 FF: N
 OU: 00
 Action Code: VS
 Action Name: ARCH SITE
 SEQ: 1
 Start Date: Not reported
 Finish Date: 1987-06-19 04:00:00
 Qual: Not reported
 Current Action Lead: EPA Perf In-Hse

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Region: 05
Site ID: 0502278
EPA ID: MID005358791
Site Name: SPECIAL METALS CORP UDIMET POWDER DIV
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1981-06-01 04:00:00
Finish Date: 1981-06-01 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 05
Site ID: 0502278
EPA ID: MID005358791
Site Name: SPECIAL METALS CORP UDIMET POWDER DIV
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1987-06-19 04:00:00
Qual: N
Current Action Lead: St Perf

RCRA-VSQG:

Date Form Received by Agency: 20210423
Handler Name: HANSENS COLLISION LLC
Handler Address: 2310 S INDUSTRIAL HWY
Handler City,State,Zip: ANN ARBOR, MI 48104
EPA ID: MID005358791
Contact Name: KENNETH R SCRITCHFIELD
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: 734-996-2325
Contact Fax: 734-996-2335
Contact Email: KENNETH.SCRITCHFIELD@GERBERCOLLISION.COM
Contact Title: Not reported
EPA Region: 05
Land Type: Private
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 2310 S INDUSTRIAL HWY
Mailing City,State,Zip: ANN ARBOR, MI 48104
Owner Name: GERBER COLLISION & GLASS ANN ARBOR S INDUSTRIAL
Owner Type: Private

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Operator Name:	GERBER COLLISION & GLASS ANN ARBOR S INDUSTRIAL
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210819
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Hazardous Waste Summary:

Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 20001202
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status: Private
Date Became Current: 20001202
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: DUSTY WHITNEY
Legal Status: Private
Date Became Current: 20160216
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: DUSTY WHITNEY
Legal Status: Private
Date Became Current: 20160216
Date Ended Current: Not reported
Owner/Operator Address: 2310 S INDUSTRIAL HWY
Owner/Operator City,State,Zip: ANN ARBOR, MI 48104-6126
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DUSTY WHITNEY
Legal Status: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Date Became Current:	20160216
Date Ended Current:	Not reported
Owner/Operator Address:	2310 S INDUSTRIAL HWY
Owner/Operator City,State,Zip:	ANN ARBOR, MI 48104-6126
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GERBER COLLISION & GLASS ANN ARBOR S IND
Legal Status:	Private
Date Became Current:	20190308
Date Ended Current:	Not reported
Owner/Operator Address:	2310 S INDUSTRIAL HWY
Owner/Operator City,State,Zip:	ANN ARBOR, MI 48104-6126
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GERBER COLLISION & GLASS ANN ARBOR S INDUSTRIAL
Legal Status:	Private
Date Became Current:	20190308
Date Ended Current:	Not reported
Owner/Operator Address:	2310 S INDUSTRIAL HWY
Owner/Operator City,State,Zip:	ANN ARBOR, MI 48104-6126
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	DUSTY WHITNEY
Legal Status:	Private
Date Became Current:	20160216
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	DUSTY WHITNEY
Legal Status:	Private
Date Became Current:	20160216
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GERBER COLLISION & GLASS ANN ARBOR S IND
Legal Status:	Private
Date Became Current:	20190308
Date Ended Current:	Not reported
Owner/Operator Address:	2310 S INDUSTRIAL HWY
Owner/Operator City,State,Zip:	ANN ARBOR, MI 48104-6126
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GERBER COLLISION & GLASS ANN ARBOR S INDUSTRIAL
Legal Status:	Private
Date Became Current:	20190308
Date Ended Current:	Not reported
Owner/Operator Address:	2310 S INDUSTRIAL HWY
Owner/Operator City,State,Zip:	ANN ARBOR, MI 48104-6126
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20001202
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20001202
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	DUSTY WHITNEY
Legal Status:	Private
Date Became Current:	20160216
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19901107
Handler Name: SPECIAL METALS CORP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20011231
Handler Name: SPECIAL METALS CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160216
Handler Name: DUSTY'S COLLISION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170321
Handler Name: DUSTY'S COLLISION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180510

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Handler Name: DUSTY'S COLLISION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20190510
Handler Name: HANSENS COLLISION LLC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20210423
Handler Name: HANSENS COLLISION LLC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 11131
NAICS Description: ORANGE GROVES

NAICS Code: 811198
NAICS Description: ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE

Facility Has Received Notices of Violation:

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20161202
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20161208

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20161202
Actual Return to Compliance Date:	20170314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20161208
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20161202
Actual Return to Compliance Date:	20170314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20161208
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20161202
Actual Return to Compliance Date:	20170314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20170111

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20161202
Actual Return to Compliance Date:	20170314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20170111
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20161202
Actual Return to Compliance Date:	20170314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20170111
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20161202
Actual Return to Compliance Date:	20170314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20161208

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	20161202
Actual Return to Compliance Date:	20170314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20170111
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

Map ID
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 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

SEP Defaulted Date: Not reported
 SEP Type: Not reported
 SEP Type Description: Not reported
 Proposed Amount: Not reported
 Final Monetary Amount: Not reported
 Paid Amount: Not reported
 Final Count: Not reported
 Final Amount: Not reported

Found Violation: No
 Agency Which Determined Violation: Not reported
 Violation Short Description: Not reported
 Date Violation was Determined: Not reported
 Actual Return to Compliance Date: Not reported
 Return to Compliance Qualifier: Not reported
 Violation Responsible Agency: Not reported
 Scheduled Compliance Date: Not reported
 Enforcement Identifier: Not reported
 Date of Enforcement Action: Not reported
 Enforcement Responsible Agency: Not reported
 Enforcement Docket Number: Not reported
 Enforcement Attorney: Not reported
 Corrective Action Component: Not reported
 Appeal Initiated Date: Not reported
 Appeal Resolution Date: Not reported
 Disposition Status Date: Not reported
 Disposition Status: Not reported
 Disposition Status Description: Not reported
 Consent/Final Order Sequence Number: Not reported
 Consent/Final Order Respondent Name: Not reported
 Consent/Final Order Lead Agency: Not reported
 Enforcement Type: Not reported
 Enforcement Responsible Person: Not reported
 Enforcement Responsible Sub-Organization: Not reported
 SEP Sequence Number: Not reported
 SEP Expenditure Amount: Not reported
 SEP Scheduled Completion Date: Not reported
 SEP Actual Date: Not reported
 SEP Defaulted Date: Not reported
 SEP Type: Not reported
 SEP Type Description: Not reported
 Proposed Amount: Not reported
 Final Monetary Amount: Not reported
 Paid Amount: Not reported
 Final Count: Not reported
 Final Amount: Not reported

Found Violation: Yes
 Agency Which Determined Violation: State
 Violation Short Description: LDR - General
 Date Violation was Determined: 20161202
 Actual Return to Compliance Date: 20170314
 Return to Compliance Qualifier: Documented
 Violation Responsible Agency: Not reported
 Scheduled Compliance Date: Not reported
 Enforcement Identifier: 001
 Date of Enforcement Action: 20161208

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 20161202
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20161202
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20170314
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20161202
Evaluation Responsible Agency: State

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170314
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170314
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170314
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170314
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170314

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170314
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20011218
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20161202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170314
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ICIS:

Enforcement Action ID:	05-1996-0632
FRS ID:	110003580722
Action Name:	SPECIALTY METALS CORP.
Facility Name:	SPECIAL METALS CORP
Facility Address:	2310 S INDUSTRIAL HWY ANN ARBOR, MI 48104
Enforcement Action Type:	EPCRA 325 Action For Penalty
Facility County:	WASHTENAW
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Formal

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

EA Type Code: 325
Facility SIC Code: 3399
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 42.25316
Longitude in Decimal Degrees: -83.73397
Permit Type Desc: Not reported
Program System Acronym: 12736
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: SPECIAL METALS CORP.
Address: 2310 S INDUSTRIAL HWY
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3399

Facility Name: SPECIAL METALS CORP.
Address: 2310 S INDUSTRIAL HWY
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3399

Facility Name: SPECIAL METALS CORP.
Address: 2310 S INDUSTRIAL HWY
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3399

Facility Name: SPECIAL METALS CORP.
Address: 2310 S INDUSTRIAL HWY
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3399

Facility Name: SPECIAL METALS CORP.
Address: 2310 S INDUSTRIAL HWY
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3399

FINDS:

Registry ID: 110003580722

Click Here:

Environmental Interest/Information System:

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

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

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

ECHO:

Envid: 1000171416
Registry ID: 110003580722
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003580722>
Name: HANSENS COLLISION LLC
Address: 2310 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104

NY MANIFEST:

Name: SPECIAL METALS CORP
Address: 2310 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Country: USA
EPA ID: MID005358791
Facility Status: Not reported
Location Address 1: 2310 SOUTH INDUSTRIAL HIGHWAY
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: ANN ARBOR
Location State: MI
Location Zip: 48104
Location Zip 4: Not reported

NY MANIFEST:

EPAID: MID005358791
Mailing Name: SPECIAL METALS CORP
Mailing Contact: JENNIFER A LEWIS
Mailing Address 1: 2310 SOUTH INDUSTRIAL HIGHWAY
Mailing Address 2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSENS COLLISION LLC (Continued)

1000171416

Mailing City: ANN ARBOR
Mailing State: MI
Mailing Zip: 48104
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 3136650669

K45
SE
1/8-1/4
0.176 mi.
929 ft.

UNKNOWN
2310 S. INDUSTRIAL HIGHWAY
ANN ARBOR TOWNSHIP, MI 48104

MI INVENTORY **S111933620**
MI BEA **N/A**
MI WDS

Site 4 of 6 in cluster K

Relative:
Lower
Actual:
826 ft.

INVENTORY:
Name: 2310 SOUTH INDUSTRIAL HIGHWAY
Address: 2310 SOUTH INDUSTRIAL HIGHWAY
City,State,Zip: ANN ARBOR, MI 48104
Township: Not reported
District: Jackson
Data Source: Risks Not Determined
Location ID: 77530
Lust Name: Not reported
Regulatory Program: 01
Release Status: Not reported
Project Manager: Miller, Mary
Latitude: 42.25252948
Longitude: -83.73359531

Name: 2310 S. INDUSTRIAL HIGHWAY
Address: 2310 S. INDUSTRIAL HIGHWAY
City,State,Zip: MI 48104
Township: Not reported
District: Jackson
Data Source: Risks Not Determined
Location ID: 75783
Lust Name: Not reported
Regulatory Program: 01
Release Status: Not reported
Project Manager: Tiernan, Gerald
Latitude: NaN
Longitude: NaN

BEA:

Name: UNKNOWN
Address: 2310 S. INDUSTRIAL HIGHWAY
City,State,Zip: ANN ARBOR TOWNSHIP, MI 48104
Secondary Address: Not reported
BEA Number: 1215
District: Jackson
Date Received: 12/28/2012
Submitter Name: 2310 S. Industrial, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: hameld

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNKNOWN (Continued)

S111933620

Division Assigned: RRD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: 2310 SOUTH INDUSTRIAL HIGHWAY
Address: 2310 SOUTH INDUSTRIAL HIGHWAY
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 09/06/2019
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000878
Submittal Type: Baseline Environmental Assessment
Submittal Number: 81000878-BEA-1
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2019-09-13 00:00:00
Date Completed: 3/19/2019
Township: Not reported
Work Unit: Jackson
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: 2310 S. INDUSTRIAL HIGHWAY
Address: 2310 S. INDUSTRIAL HIGHWAY
City,State,Zip: MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 06/10/2013
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNKNOWN (Continued)

S111933620

Location ID: 81000728
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201301242JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2013-06-10 13:18:13
Date Completed: Not reported
Township: Not reported
Work Unit: Jackson
Comments: CONTENT MANAGER Category A1 No Associated ID#s identified. REVIEW
CONCLUSION: BEA is entirely of previously identified concerns, and
concerns have already been dealt with appropriately. FURTHER
ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: none A
BEA for this property was submitted in December 2012 and reviewed in
February 2013. No new information or data was identified and included
for this property in this BEA document.

Organization: Dusty Whitney
Contact: Brian Kuberski
Contact Type: Submitter Contact

Name: 2310 S. INDUSTRIAL HIGHWAY
Address: 2310 S. INDUSTRIAL HIGHWAY
City,State,Zip: MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 12/28/2012
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000728
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201201215JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2013-01-07 11:10:23
Date Completed: Not reported
Township: Not reported
Work Unit: Jackson
Comments: CONTENT MANAGER Category B1 No Associated ID#s identified. REVIEW
CONCLUSION: BEA identifies a new concern, in whole or in part, and
assessment of the available information indicates no imminent, ongoing
or evident future significant risk exists.

Organization: 2310 S. Industrial, LLC
Contact: Brian Kuberski
Contact Type: Submitter Contact

WDS:

Name: HANSENS COLLISION LLC
Address: 2310 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MID005358791
WMD Id: 393476

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNKNOWN (Continued)

S111933620

Site Specific Name: GERBER COLLISION AND GLASS ANN ARBOR SOUTH INDUSTRIAL
 Mailing Address: 2310 S INDUSTRIAL HWY
 Mailing City/State/Zip: 48104
 Mailing County: WASHTENAW

I46
ESE
1/8-1/4
0.181 mi.
958 ft.

HEIRLOOM FURNITURE
1240 JEWETT ST
ANN ARBOR, MI 48104

RCRA-VSQQ

1007099359
MIK657862579

Site 3 of 3 in cluster I

Relative:
Lower

RCRA-VSQQ:

Actual:
827 ft.

Date Form Received by Agency:	20010604
Handler Name:	HEIRLOOM FURNITURE
Handler Address:	1240 JEWETT ST
Handler City,State,Zip:	ANN ARBOR, MI 48104
EPA ID:	MIK657862579
Contact Name:	ANITA MAROHNIC
Contact Address:	1240 JEWETT ST
Contact City,State,Zip:	ANN ARBOR, MI 48104
Contact Telephone:	734-944-5154
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1240 JEWETT ST
Mailing City,State,Zip:	ANN ARBOR, MI 48104
Owner Name:	PSI
Owner Type:	Private
Operator Name:	PSI
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HEIRLOOM FURNITURE (Continued)

1007099359

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JEWETT PROPERTIES (PROPERTY)
Legal Status:	Private
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City, State, Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
---------------------------	----------

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HEIRLOOM FURNITURE (Continued)

1007099359

Owner/Operator Name: JEWETT PROPERTIES (PROPERTY)
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: JEWETT PROPERTIES (PROPERTY)
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: PSI
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: JEWETT PROPERTIES (PROPERTY)
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PSI
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HEIRLOOM FURNITURE (Continued)

1007099359

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: PSI
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PSI
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20010604
Handler Name: HEIRLOOM FURNITURE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990916
Handler Name: HEIRLOOM FURNITURE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 42321
NAICS Description: FURNITURE MERCHANT WHOLESALERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HEIRLOOM FURNITURE (Continued)

1007099359

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

**K47
SE
1/8-1/4
0.191 mi.
1006 ft.**

**HUTZEL PLUMBING HEATING CO
2311 S INDUSTRIAL HWY
ANN ARBOR, MI 48104
Site 5 of 6 in cluster K**

**MI LUST U000714925
MI UST N/A
MI INVENTORY**

**Relative:
Lower
Actual:
826 ft.**

LUST:
Name: HUTZEL PLUMBING HEATING CO
Address: 2311 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00035212
Source: STATE OF MICHIGAN
Owner Name: HutzelPlumbing Heating Co
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: Hutzel Plumbing And Heating
Latitude: 42.25316
Longitude: -83.73385
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0859-92
Release Date: 05/22/1992
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: 11/30/1995

UST:
Name: HUTZEL PLUMBING HEATING CO
Address: 2311 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6125
Facility Type: CLOSED
Facility ID: 00035212
Owner Name: HUTZEL PLUMBING HEATING CO
Owner Address: 2311 S INDUSTRIAL HWY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUTZEL PLUMBING HEATING CO (Continued)

U000714925

Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-6125
Owner Contact: Not reported
Owner Phone: 7346659111
Contact: GENE R CUMMINS
Contact Phone: (734) 665-9111
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 1000
Tank Status: Removed from Ground
Substance: Not reported
Install Date: 01/01/1966
Remove Date: 08/11/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25316
Longitude: -83.73385

INVENTORY:

Name: HUTZEL PLUMBING HEATING CO
Address: 2311 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 42931
Lust Name: Hutzal Plumbing And Heating
Regulatory Program: 3
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.253164
Longitude: -83.733858

MAP FINDINGS

Map ID Direction Distance Elevation Site Database(s) EDR ID Number EPA ID Number

K48 SE 1/8-1/4 0.191 mi. 1006 ft. **HUTZEL PLUMBING HEATING CO 2311 SOUTH INDUSTRIAL HIGHWAY ANN ARBOR CITY, MI 48104** **MI AUL S109846286 N/A**
Site 6 of 6 in cluster K

Relative: Lower

AUL:

Actual: 826 ft.

Name: HUTZEL PLUMBING HEATING CO
Address: 2311 SOUTH INDUSTRIAL HIGHWAY
City,State,Zip: ANN ARBOR CITY, MI 48104
Status: Recorded
Site Name: Not reported
Property: Hutzel Plumbing Heating Co
Land Use Restriction Type: RC
Program Type: Part 213
Program Support Assigned User: Nicholas Ekel
Program Support Assigned Date: 01/07/2011
Legal Description Of Property: Migrated
Based On The Deq Ref #: 11121304566
MDEQ Reference Number: RC-RRD-213-04-566
Property Or Description Restricted Area: Migrated
Lead Division: STD
File Name Of Hyperlinked Legal Doc: U:\KERMIT\11121304566.PDF
Mapped Polygons Area In Acres: 1.0094000000000001
Mapped Polygons Area In Square Miles: 0.0015
Date Data Entry Started: 03/17/2011
Date Data Entry Finished: 03/17/2011
Individual Or Staff Assoc With The Mapping: Nicholas Ekel
Program Used To Map Restricted Features: ArcINFO 9.3 & IcoMAP 4.2
Date Legal Paperwork Stamped/Filed/Register Of Deeds: 10/10/1995
Commercial I Land Use Restriction: 0
Commercial Ii Land Use Restriction: 0
Commercial Iii Land Use Restriction: 0
Commercial Iv Land Use Restriction: 0
Industrial Land Use Restriction: 0
Residential Land Use Restriction: 0
Recreational Land Use Restriction: 0
Multiple Land-Use Restrictions: 0
Site Specific Restrictions: 0
Groundwater Consumption Restrictions: 1
Groundwater Contact Restrictions: 0
Special Well Construction Requirements: 0
Special Building Restrictions: 0
Excavation And Soil Movement Restrictions: 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: 0
There Is A Health And Safety Plan: 0
There Is A Permanent Marker On The Site: 0
Comment: Request received on 7/16/2004
Map Comments: 20110107 - LRUR is NOT mapped in KERMIT - Nick Ekel 20110317 - LRUR is mapped in KERMIT - Nick Ekel

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

49
 North
 1/8-1/4
 0.216 mi.
 1138 ft.

JOHNSON CONTROLS INC
1935 S INDUSTRIAL HWY
ANN ARBOR, MI 48104

RCRA-VSQG **1014923908**
MIK105803337

Relative:
Lower
Actual:
826 ft.

RCRA-VSQG:
 Date Form Received by Agency: 20111013
 Handler Name: JOHNSON CONTROLS INC
 Handler Address: 1935 S INDUSTRIAL HWY
 Handler City,State,Zip: ANN ARBOR, MI 48104
 EPA ID: MIK105803337
 Contact Name: ANDREW C BRONSON
 Contact Address: Not reported
 Contact City,State,Zip: Not reported
 Contact Telephone: 734-216-1895
 Contact Fax: Not reported
 Contact Email: ANDREW.C.BRONSON@DJCI.COM
 Contact Title: Not reported
 EPA Region: 05
 Land Type: Private
 Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 1935 S INDUSTRIAL HWY
 Mailing City,State,Zip: ANN ARBOR, MI 48104
 Owner Name: JOHNSON CONTROLS INC
 Owner Type: Private
 Operator Name: JOHNSON CONTROLS INC
 Operator Type: Private
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No
 Underground Injection Control: No
 Off-Site Waste Receipt: No
 Universal Waste Indicator: No
 Universal Waste Destination Facility: No
 Federal Universal Waste: No
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
 Active Site Converter Treatment storage and Disposal Facility: Not reported
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
 Active Site State-Reg Handler: ---
 Federal Facility Indicator: Not reported
 Hazardous Secondary Material Indicator: NN
 Sub-Part K Indicator: Not reported
 Commercial TSD Indicator: No
 Treatment Storage and Disposal Type: Not reported
 2018 GPRA Permit Baseline: Not on the Baseline
 2018 GPRA Renewals Baseline: Not on the Baseline
 Permit Renewals Workload Universe: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOHNSON CONTROLS INC (Continued)

1014923908

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20111227
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOHNSON CONTROLS INC
Legal Status:	Private
Date Became Current:	20050103
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOHNSON CONTROLS INC
Legal Status:	Private
Date Became Current:	20050103
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOHNSON CONTROLS INC (Continued)

1014923908

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20111013
Handler Name: JOHNSON CONTROLS INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 335999
NAICS Description: ALL OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

L50
SE
1/8-1/4
0.222 mi.
1172 ft.

**2401 S. INDUSTRIAL HIGHWAY
2401 S. INDUSTRIAL HIGHWAY
ANN ARBOR, MI 48108**
Site 1 of 4 in cluster L

**MI DEL PART 201 S105966146
N/A**

Relative:
Lower
Actual:
825 ft.

DEL_PART201:
Facility ID: 81000408
Status: Delisted - no longer meets criteria specified in rules

L51
SSE
1/8-1/4
0.230 mi.
1217 ft.

**DUSTYS COLLISION INC
2418 S INDUSTRIAL HWY
ANN ARBOR, MI 48104**
Site 2 of 4 in cluster L

**RCRA NonGen / NLR 1014924264
MIK157368714**

Relative:
Lower
Actual:
826 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 20160216
Handler Name: DUSTYS COLLISION INC
Handler Address: 2418 S INDUSTRIAL HWY
Handler City,State,Zip: ANN ARBOR, MI 48104
EPA ID: MIK157368714
Contact Name: CHRIS SCHULTZ

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUSTYS COLLISION INC (Continued)

1014924264

Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	734-996-2325
Contact Fax:	734-996-2335
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2418 S INDUSTRIAL HWY
Mailing City,State,Zip:	ANN ARBOR, MI 48104
Owner Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:	Private
Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUSTYS COLLISION INC (Continued)

1014924264

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DUSTY'S COLLISION INC
Legal Status:	Private
Date Became Current:	20110628
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DUSTY WHITNEY
Legal Status:	Private
Date Became Current:	20110628
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DUSTY WHITNEY
Legal Status:	Private
Date Became Current:	20110628
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DUSTYS COLLISION INC (Continued)

1014924264

Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160217
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	DUSTY'S COLLISION INC
Legal Status:	Private
Date Became Current:	20110628
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160217
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Historic Generators:	
Receive Date:	20110628
Handler Name:	DUSTYS COLLISION INC
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20160216

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUSTYS COLLISION INC (Continued)

1014924264

Handler Name: DUSTYS COLLISION INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violation:

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20110614
Actual Return to Compliance Date: 20111026
Return to Compliance Qualifier: Documented
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20110622
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUSTYS COLLISION INC (Continued)

1014924264

Agency Which Determined Violation:	State
Violation Short Description:	Listing - General
Date Violation was Determined:	20110614
Actual Return to Compliance Date:	20110816
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20110622
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Used Oil - Generators
Date Violation was Determined:	20110614
Actual Return to Compliance Date:	20110816
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20110622
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUSTYS COLLISION INC (Continued)

1014924264

Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20110614
Actual Return to Compliance Date:	20111026
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20110816
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DUSTYS COLLISION INC (Continued)

1014924264

Evaluation Action Summary:

Evaluation Date: 20110614
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20111026
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20110614
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20110816
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20110614
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20110816
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20110614
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20111026
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

L52
SSE
1/8-1/4
0.232 mi.
1223 ft.

GODFREY MOVING & STORAGE CO
2420 S INDUSTRIAL HWY
ANN ARBOR, MI 48104

Site 3 of 4 in cluster L

MI LUST U000266287
MI UST N/A
MI INVENTORY
MI BEA
MI WDS

Relative:
Lower

LUST:

Actual:
826 ft.

Name: GODFREY MOVING & STORAGE CO
Address: 2420 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00034348
Source: STATE OF MICHIGAN
Owner Name: GodfreyMoving & Storage
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: Godfrey Moving & Storage
Latitude: 42.25203
Longitude: -83.73352
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-2546-90
Release Date: 12/03/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 08/07/1995

UST:

Name: GODFREY MOVING & STORAGE CO
Address: 2420 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6130
Facility Type: CLOSED
Facility ID: 00034348
Owner Name: GODFREY MOVING & STORAGE
Owner Address: 573 STATE CIR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-1643
Owner Contact: Not reported
Owner Phone: 8102292439
Contact: RICK W. BROWN
Contact Phone: (734) 769-4100
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODFREY MOVING & STORAGE CO (Continued)

U000266287

Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 2
Capacity: 2500
Tank Status: Removed from Ground
Substance: Diesel
Install Date: 01/01/1974
Remove Date: 07/24/1991
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25203
Longitude: -83.73352

Name: GODFREY MOVING & STORAGE CO
Address: 2420 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6130
Facility Type: CLOSED
Facility ID: 00034348
Owner Name: GODFREY MOVING & STORAGE
Owner Address: 573 STATE CIR
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108-1643
Owner Contact: Not reported
Owner Phone: 8102292439
Contact: RICK W. BROWN
Contact Phone: (734) 769-4100
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 2500
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 01/01/1966
Remove Date: 07/24/1991
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODFREY MOVING & STORAGE CO (Continued)

U000266287

Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25203
Longitude: -83.73352

INVENTORY:

Name: GODFREY MOVING & STORAGE CO
Address: 2420 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 48303
Lust Name: Godfrey Moving & Storage
Regulatory Program: 13
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.252032
Longitude: -83.733529

Name: 2420 SOUTH INDUSTRIAL HIGHWAY
Address: 2420 SOUTH INDUSTRIAL HIGHWAY
City,State,Zip: ANN ARBOR, MI 48104
Township: Not reported
District: Jackson
Data Source: Risks Not Determined
Location ID: 75788
Lust Name: Not reported
Regulatory Program: 01
Release Status: Not reported
Project Manager: Tiernan, Gerald
Latitude: 42.25176232
Longitude: -83.73398165

BEA:

Name: 2420 SOUTH INDUSTRIAL HIGHWAY
Address: 2420 SOUTH INDUSTRIAL HIGHWAY
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 08/04/1995
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000733
Submittal Type: Baseline Environmental Assessment
Submittal Number: P199500001JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODFREY MOVING & STORAGE CO (Continued)

U000266287

Date Completed: Not reported
Township: Not reported
Work Unit: Jackson
Comments: CONTENT MANAGER (LKG) Category B2 REVIEW CONCLUSION: BEA identifies a new concern, in whole or in part, and assessment of the available information indicates further follow up is needed, awaiting resources. TCE and PCE present in soil. Benzo (a)pyrene, flouranthene. As, Cu, Pb, Hg, Se, Ag and Zn, groundwater has lead selenium and silver. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: morenci bought the property, will tear the building down, make it into
Organization: Not reported
Contact: Richard A Gordon - ASTI, Migrate from ERNIE
Contact Type: Submitter Contact

Name: GODFREY MOVING & STORAGE
Address: 2420 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR TOWNSHIP, MI
Secondary Address: Not reported
BEA Number: 1
District: Jackson
Date Received: 08/04/1995
Submitter Name: Marten/Davis Ltd
Petition Determination: Affirmed
Petition Disclosure: 1
Category: N
Determination 20107A: Pending
Reviewer: tempmm
Division Assigned: STD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

WDS:

Name: GODFREY MOVING & STORAGE
Address: 2420 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MIG000017945
WMD Id: 454361
Site Specific Name: GODFREY MOVING & STORAGE
Mailing Address: 2420 S INDUSTRIAL HWY
Mailing City/State/Zip: 48104
Mailing County: WASHTENAW

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

53
NW
1/8-1/4
0.243 mi.
1281 ft.

THE PRODUCE STATION
1635 S STATE ST
ANN ARBOR, MI 48104

MI LUST U001148050
MI UST N/A
MI INVENTORY
MI PART 201
MI WDS

Relative:
Higher

LUST:

Actual:
843 ft.

Name: THE PRODUCE STATION
Address: 1635 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00036638
Source: STATE OF MICHIGAN
Owner Name: RICHARDPESHKIN
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: The Produce Station
Latitude: 42.26112
Longitude: -83.74026
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-1066-92
Release Date: 06/30/1992
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

UST:

Name: THE PRODUCE STATION
Address: 1635 S STATE ST
City,State,Zip: ANN ARBOR 48104-4302
Facility Type: CLOSED
Facility ID: 00036638
Owner Name: RICHARD PESHKIN
Owner Address: 1635 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-4302
Owner Contact: Not reported
Owner Phone: 7346637848
Contact: RICHARD PESHKIN
Contact Phone: (734) 663-7848
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE PRODUCE STATION (Continued)

U001148050

Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 1000
Tank Status: Closed in Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 07/02/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26112
Longitude: -83.74026

INVENTORY:

Name: THE PRODUCE STATION
Address: 1635 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 46729
Lust Name: The Produce Station
Regulatory Program: 213
Release Status: Open
Project Manager: Govus, Ray
Latitude: 42.261121
Longitude: -83.740262

Name: THE PRODUCE STATION
Address: 1635 S. STATE ST.
City,State,Zip: ANN ARBOR, MI 48104
Township: Not reported
District: Jackson
Data Source: Risks Present but Not Immediate
Location ID: 10496
Lust Name: Not reported
Regulatory Program: 201
Release Status: Not reported
Project Manager: Hamel, Daniel
Latitude: 42.257544
Longitude: -83.739757

PART 201:

Facility ID: 81000447
Facility Status: Interim Response in progress
Source: Petroleum & Coal Products

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE PRODUCE STATION (Continued)

U001148050

SAM Score: 36
SAM Score Date: 06/24/2004
Township: 02S
Range: 06E
Section: 33
Quarter: SW
Quarter/Quarter: SW
Pollutants: Benzene; Ethylbenzene; Toluene; Xylenes

WDS:

Name: PRODUCE STATION
Address: 1635 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MIG000033272
WMD Id: 446883
Site Specific Name: PRODUCE STATION
Mailing Address: 1635 S STATE ST
Mailing City/State/Zip: 48104
Mailing County: WASHTENAW

**L54
SE
1/4-1/2
0.258 mi.
1360 ft.**

**NAPA AUTO
2331 S INDUSTRIAL HWY
ANN ARBOR, MI 48104**

Site 4 of 4 in cluster L

**MI LUST U004082529
MI UST N/A
MI INVENTORY
MI WDS**

**Relative:
Lower
Actual:
826 ft.**

LUST:

Name: NAPA AUTO
Address: 2331 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00041982
Source: STATE OF MICHIGAN
Owner Name: DJInvestments
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: Napa Auto
Latitude: 42.25186
Longitude: -83.73242
Date of Collection: 07/03/2007
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 40
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0034-07

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NAPA AUTO (Continued)

U004082529

Release Date: 03/09/2007
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: 11/09/2007

UST:

Name: NAPA AUTO
Address: 2331 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-6125
Facility Type: CLOSED
Facility ID: 00041982
Owner Name: DJ INVESTMENTS
Owner Address: 208 E WASHINGTON
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48108
Owner Contact: Not reported
Owner Phone: 7346634461
Contact: Jason Ventrees
Contact Phone: (734) 975-1970
Date of Collection: 07/03/2007
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 550
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 03/09/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.25186
Longitude: -83.73242

INVENTORY:

Name: NAPA AUTO
Address: 2331 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 52361
Lust Name: Napa Auto
Regulatory Program: 13
Release Status: Closed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NAPA AUTO (Continued)

U004082529

Project Manager: Hiske, Terry
Latitude: 42.251862
Longitude: -83.732428

WDS:

Name: WASHTENAW FLEET MAINTENANCE INC
Address: 2331 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MID985625292
WMD Id: 406256
Site Specific Name: WASHTENAW FLEET MAINTENANCE INC
Mailing Address: 2331 S INDUSTRIAL HWY
Mailing City/State/Zip: 48104
Mailing County: WASHTENAW

M55
North
1/4-1/2
0.270 mi.
1428 ft.

BIG DADDY AUTO WASH
1910 S INDUSTRIAL HWY
ANN ARBOR, MI 48104

Site 1 of 4 in cluster M

MI LUST
MI UST
MI INVENTORY
MI WDS

U002303276
N/A

Relative:
Lower
Actual:
827 ft.

LUST:

Name: BIG DADDY AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00004216
Source: STATE OF MICHIGAN
Owner Name: RichardModigell
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: Big Daddy Auto Wash
Latitude: 42.25978
Longitude: -83.73682
Date of Collection: 11/02/2015
Method of Collection: Interpolation-Satellite
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Not reported
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0278-07
Release Date: 12/05/2007
Substance Released: Diesel,Gasoline,Gasoline,Gasoline,Gasoline,Gasoline
Release Status: Closed
Release Closed Date: 10/22/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG DADDY AUTO WASH (Continued)

U002303276

UST:

Name: BIG DADDY AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-4614
Facility Type: CLOSED
Facility ID: 00004216
Owner Name: RICHARD MODIGELL
Owner Address: 1910 S INDUSTRIAL
Owner City: EAST LANSING
Owner State: MI
Owner Zip: 48823
Owner Contact: Not reported
Owner Phone: 7347692395
Contact: Richard Modigell
Contact Phone: (734) 769-2395
Date of Collection: 11/02/2015
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Satellite
District: Region 2 - Jackson District Office
Tank ID: 6
Capacity: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/29/1966
Remove Date: 12/05/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.25978
Longitude: -83.73682

Name: BIG DADDY AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-4614
Facility Type: CLOSED
Facility ID: 00004216
Owner Name: RICHARD MODIGELL
Owner Address: 1910 S INDUSTRIAL
Owner City: EAST LANSING
Owner State: MI
Owner Zip: 48823
Owner Contact: Not reported
Owner Phone: 7347692395
Contact: Richard Modigell
Contact Phone: (734) 769-2395
Date of Collection: 11/02/2015
Accuracy: 100

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG DADDY AUTO WASH (Continued)

U002303276

Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Satellite
District: Region 2 - Jackson District Office
Tank ID: 5
Capacity: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/29/1966
Remove Date: 12/05/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.25978
Longitude: -83.73682

Name: BIG DADDY AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-4614
Facility Type: CLOSED
Facility ID: 00004216
Owner Name: RICHARD MODIGELL
Owner Address: 1910 S INDUSTRIAL
Owner City: EAST LANSING
Owner State: MI
Owner Zip: 48823
Owner Contact: Not reported
Owner Phone: 7347692395
Contact: Richard Modigell
Contact Phone: (734) 769-2395
Date of Collection: 11/02/2015
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Satellite
District: Region 2 - Jackson District Office
Tank ID: 4
Capacity: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/29/1966
Remove Date: 12/05/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG DADDY AUTO WASH (Continued)

U002303276

Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.25978
Longitude: -83.73682

Name: BIG DADDY AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-4614
Facility Type: CLOSED
Facility ID: 00004216
Owner Name: RICHARD MODIGELL
Owner Address: 1910 S INDUSTRIAL
Owner City: EAST LANSING
Owner State: MI
Owner Zip: 48823
Owner Contact: Not reported
Owner Phone: 7347692395
Contact: Richard Modigell
Contact Phone: (734) 769-2395
Date of Collection: 11/02/2015
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Satellite
District: Region 2 - Jackson District Office
Tank ID: 3
Capacity: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/29/1966
Remove Date: 12/05/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.25978
Longitude: -83.73682

Name: BIG DADDY AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-4614
Facility Type: CLOSED
Facility ID: 00004216
Owner Name: RICHARD MODIGELL
Owner Address: 1910 S INDUSTRIAL
Owner City: EAST LANSING
Owner State: MI
Owner Zip: 48823

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG DADDY AUTO WASH (Continued)

U002303276

Owner Contact: Not reported
Owner Phone: 7347692395
Contact: Richard Modigell
Contact Phone: (734) 769-2395
Date of Collection: 11/02/2015
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Satellite
District: Region 2 - Jackson District Office
Tank ID: 2
Capacity: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/29/1966
Remove Date: 12/05/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.25978
Longitude: -83.73682

Name: BIG DADDY AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-4614
Facility Type: CLOSED
Facility ID: 00004216
Owner Name: RICHARD MODIGELL
Owner Address: 1910 S INDUSTRIAL
Owner City: EAST LANSING
Owner State: MI
Owner Zip: 48823
Owner Contact: Not reported
Owner Phone: 7347692395
Contact: Richard Modigell
Contact Phone: (734) 769-2395
Date of Collection: 11/02/2015
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Satellite
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 4000
Tank Status: Removed from Ground
Substance: Diesel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG DADDY AUTO WASH (Continued)

U002303276

Install Date: 04/29/1966
Remove Date: 12/05/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.25978
Longitude: -83.73682

INVENTORY:

Name: BIG DADDY AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 53910
Lust Name: Big Daddy Auto Wash
Regulatory Program: 13
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.25978
Longitude: -83.736826

WDS:

Name: SPARKLE AUTO WASH
Address: 1910 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MIG000048299
WMD Id: 438997
Site Specific Name: SPARKLE AUTO WASH
Mailing Address: 1910 S INDUSTRIAL HWY
Mailing City/State/Zip: 48104
Mailing County: WASHTENAW

56
South
1/4-1/2
0.294 mi.
1554 ft.

TRANSPORTATION DEPARTMENT
2400 BOARDWALK ST
ANN ARBOR, MI 48104

MI LUST U000266284
MI UST N/A
MI INVENTORY
MI Financial Assurance
MI WDS

Relative:
Higher
Actual:
830 ft.

LUST:
Name: TRANSPORTATION DEPARTMENT
Address: 2400 BOARDWALK ST
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00006646
Source: STATE OF MICHIGAN
Owner Name: AnnArbor Public Schools
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRANSPORTATION DEPARTMENT (Continued)

U000266284

District: Jackson
Site Name: Ann Arbor Public Schools
Latitude: 42.24954
Longitude: -83.73575
Date of Collection: 10/05/2004
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0504-97
Release Date: 06/27/1997
Substance Released: Diesel
Release Status: Closed
Release Closed Date: 10/18/2001

UST:

Name: TRANSPORTATION DEPARTMENT
Address: 2400 BOARDWALK ST
City,State,Zip: ANN ARBOR 48104-2411
Facility Type: ACTIVE
Facility ID: 00006646
Owner Name: ANN ARBOR PUBLIC SCHOOLS
Owner Address: 2555 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-6145
Owner Contact: Not reported
Owner Phone: 7349948118
Contact: Tim Gruszczynski
Contact Phone: (734) 216-1417
Date of Collection: 10/05/2004
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 3
Capacity: 6000
Tank Status: Closed in Ground
Substance: Used Oil
Install Date: 01/01/1981
Remove Date: 11/03/2007
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRANSPORTATION DEPARTMENT (Continued)

U000266284

Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.24954
Longitude: -83.73575

Name: TRANSPORTATION DEPARTMENT
Address: 2400 BOARDWALK ST
City,State,Zip: ANN ARBOR 48104-2411
Facility Type: ACTIVE
Facility ID: 00006646
Owner Name: ANN ARBOR PUBLIC SCHOOLS
Owner Address: 2555 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-6145
Owner Contact: Not reported
Owner Phone: 7349948118
Contact: Tim Gruszczynski
Contact Phone: (734) 216-1417
Date of Collection: 10/05/2004
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 2
Capacity: 20000
Tank Status: Currently In Use
Substance: Diesel
Install Date: 09/14/1981
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.24954
Longitude: -83.73575

Name: TRANSPORTATION DEPARTMENT
Address: 2400 BOARDWALK ST
City,State,Zip: ANN ARBOR 48104-2411
Facility Type: ACTIVE
Facility ID: 00006646
Owner Name: ANN ARBOR PUBLIC SCHOOLS
Owner Address: 2555 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-6145

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRANSPORTATION DEPARTMENT (Continued)

U000266284

Owner Contact: Not reported
Owner Phone: 7349948118
Contact: Tim Gruszczynski
Contact Phone: (734) 216-1417
Date of Collection: 10/05/2004
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 20000
Tank Status: Currently In Use
Substance: Diesel
Install Date: 09/14/1981
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Yes
Latitude: 42.24954
Longitude: -83.73575

INVENTORY:

Name: TRANSPORTATION DEPARTMENT
Address: 2400 BOARDWALK ST
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 63934
Lust Name: Ann Arbor Public Schools
Regulatory Program: 3
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.249547
Longitude: -83.735755

FINANCIAL ASSURANCE 3:

Name: TRANSPORTATION DEPARTMENT
Address: 2400 BOARDWALK ST
City,State,Zip: ANN ARBOR, MI 48104-2411
Facility ID: 00006646
Exempt: No
Expiration Date: 08/01/2020
Bond Rating Tests: Not reported
Commerical Insurance: CHECKED
Guarantee: Not reported
Letter of Credit: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRANSPORTATION DEPARTMENT (Continued)

U000266284

Risk Retention Group: Not reported
Self Insurance: Not reported
State Funds: Not reported
Surety Bond: Not reported
Trust Funds: Not reported
Year: 2019

WDS:

Name: ANN ARBOR SCHOOLS
Address: 2400 BOARDWALK ST
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MIG00003623
WMD Id: 417030
Site Specific Name: ANN ARBOR SCHOOLS
Mailing Address: 2400 BOARDWALK ST
Mailing City/State/Zip: 48104
Mailing County: WASHTENAW

M57
North
1/4-1/2
0.299 mi.
1579 ft.

WAY BAKERIES INC
1700 S INDUSTRIAL HWY
ANN ARBOR, MI 48104
Site 2 of 4 in cluster M

MI LUST **U000266212**
MI UST **N/A**
MI INVENTORY
MI BEA
MI WDS

Relative:
Higher
Actual:
828 ft.

LUST:
Name: WAY BAKERIES INC
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00000064
Source: STATE OF MICHIGAN
Owner Name: WayBakery (John Popp)
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: Shafer Bakery
Latitude: 42.26042
Longitude: -83.73755
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0014-92
Release Date: 01/06/1992
Substance Released: Gasoline

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WAY BAKERIES INC (Continued)

U000266212

Release Status: Closed
Release Closed Date: 01/03/1997

UST:

Name: WAY BAKERIES INC
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR 48104-4624
Facility Type: CLOSED
Facility ID: 00000064
Owner Name: WAY BAKERY (JOHN POPP)
Owner Address: 2100 ENTERPRISE ST
Owner City: JACKSON
Owner State: MI
Owner Zip: 49203-3410
Owner Contact: Not reported
Owner Phone: 5177876720
Contact: JAMES NEWELL
Contact Phone: (517) 482-8870
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 2000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 02/04/1976
Remove Date: 01/06/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26042
Longitude: -83.73755

INVENTORY:

Name: WAY BAKERIES INC
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 52514
Lust Name: Shafer Bakery
Regulatory Program: 13
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.260422

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WAY BAKERIES INC (Continued)

U000266212

Longitude: -83.737555

BEA:

Name: Not reported
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR CITY, MI 48104
Secondary Address: Not reported
BEA Number: 926
District: Jackson
Date Received: 09/10/2008
Submitter Name: Diamond Arbor LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: N
Determination 20107A: No Request
Reviewer: hisket
Division Assigned: STD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: Not reported
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR CITY, MI 48104
Secondary Address: Not reported
BEA Number: 455
District: Jackson
Date Received: 05/14/2003
Submitter Name: Maciolek Limited Partnership
Petition Determination: Pending
Petition Disclosure: 1
Category: D
Determination 20107A: No Request
Reviewer: englishc
Division Assigned: STD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WAY BAKERIES INC (Continued)

U000266212

Contact Type: Not reported

Name: WAY BAKERIES INC
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 09/10/2008
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 00000064
Submittal Type: Baseline Environmental Assessment
Submittal Number: B200800926JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2008-09-11 11:02:40
Date Completed: Not reported
Township: Ann Arbor
Work Unit: Jackson
Comments: Not reported
Organization: Diamond Arbor LLC
Contact: Wayne Loftus
Contact Type: Submitter Contact

Name: WAY BAKERIES INC
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 05/14/2003
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 00000064
Submittal Type: Baseline Environmental Assessment
Submittal Number: P200300455JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 07:29:04
Date Completed: Not reported
Township: Ann Arbor
Work Unit: Jackson
Comments: Not reported
Organization: Maciolek Limited Partnership
Contact: Phil Simon
Contact Type: Submitter Contact

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WAY BAKERIES INC (Continued)

U000266212

Name: WAY BAKERIES INC
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 08/15/1997
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 00000064
Submittal Type: Baseline Environmental Assessment
Submittal Number: P199700088JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 07:29:04
Date Completed: Not reported
Township: Ann Arbor
Work Unit: Jackson
Comments: Not reported
Organization: Velmeir South Industrial Co LLC
Contact: Mr Ken A Mumy
Contact Type: Submitter Contact

WDS:

Name: WOODWARD DETROIT CVS, LLC
Address: 1700 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MIK421121324
WMD Id: 456725
Site Specific Name: CVS PHARMACY #8216
Mailing Address: ONE CVS DRIVE
Mailing City/State/Zip: 2895
Mailing County: Not reported

M58
North
1/4-1/2
0.310 mi.
1636 ft.

WAY BAKERIES INC
1700 INDUSTRIAL DRIVE
ANN ARBOR CITY, MI 48103

MI AUL S113406692
N/A

Site 3 of 4 in cluster M

Relative:
Lower
Actual:
827 ft.

AUL:

Name: WAY BAKERIES INC
Address: 1700 INDUSTRIAL DRIVE
City,State,Zip: ANN ARBOR CITY, MI 48103
Status: Recorded
Site Name: Not reported
Property: Way Bakeries Inc
Land Use Restriction Type: NCA
Program Type: Part 213
Program Support Assigned User: Nicholas Swartz
Program Support Assigned Date: 08/06/2009
Legal Description Of Property: Migrated

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WAY BAKERIES INC (Continued)

S113406692

Based On The Deq Ref #:	12121304281
MDEQ Reference Number:	NCA-RRD-213-04-281
Property Or Description Restricted Area:	Migrated
Lead Division:	STD
File Name Of Hyperlinked Legal Doc:	U:\\kermit\\12121304281.pdf
Mapped Polygons Area In Acres:	1.3379000000000001
Mapped Polygons Area In Square Miles:	0.0021
Date Data Entry Started:	08/06/2009
Date Data Entry Finished:	08/06/2009
Individual Or Staff Assoc With The Mapping:	Nicholas Swartz
Program Used To Map Restricted Features:	ArcInfo 9.3 and IcoMap 4.2
Date Legal Paperwork Stamped/Filed/Register Of Deeds:	12/10/1996
Commercial I Land Use Restriction:	0
Commercial Ii Land Use Restriction:	0
Commercial Iii Land Use Restriction:	0
Commercial Iv Land Use Restriction:	1
Industrial Land Use Restriction:	0
Residential Land Use Restriction:	0
Recreational Land Use Restriction:	0
Multiple Land-Use Restrictions:	0
Site Specific Restrictions:	0
Groundwater Consumption Restrictions:	0
Groundwater Contact Restrictions:	0
Special Well Construction Requirements:	0
Special Building Restrictions:	0
Excavation And Soil Movement Restrictions:	0
Soil Movement Requirements:	0
There Is A Restriction On All Construction:	0
Monitoring Well Protected, No Tampering Or Removal:	0
There Is An Exposure Barrier In Place:	0
There Is A Health And Safety Plan:	0
There Is A Permanent Marker On The Site:	0
Comment:	Request received on 7/16/2004
Map Comments:	Land restriction has not been mapped in kermit as of February 15, 2008. LUR is mapped in KERMIT as of 20090806 - Nick Swartz

M59
North
1/4-1/2
0.310 mi.
1636 ft.

FORMER SCHAFFER BAKERY
1700 INDUSTRIAL HWY
ANN ARBOR TOWNSHIP, MI

MI BEA S109416684
N/A

Site 4 of 4 in cluster M

Relative:
Lower
Actual:
827 ft.

BEA:	
Name:	FORMER SCHAFFER BAKERY
Address:	1700 INDUSTRIAL HWY
City,State,Zip:	ANN ARBOR TOWNSHIP, MI
Secondary Address:	Not reported
BEA Number:	88
District:	Jackson
Date Received:	08/15/1997
Submitter Name:	Velmeir South Industrial Co LLC
Petition Determination:	Affirmed
Petition Disclosure:	1
Category:	N
Determination 20107A:	Affirmed
Reviewer:	hisket
Division Assigned:	STD
Location ID:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER SCHAFFER BAKERY (Continued)

S109416684

Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

60
SW
1/4-1/2
0.344 mi.
1814 ft.

EDWARDS BROTHERS INC
2500 S STATE ST
ANN ARBOR, MI 48104

MI LUST U000266291
MI UST N/A
MI INVENTORY
MI BEA
MI WDS

Relative:
Higher

LUST:

Actual:
899 ft.

Name: EDWARDS BROTHERS INC
Address: 2500 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00007580
Source: STATE OF MICHIGAN
Owner Name: EdwardsBrothers Inc
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: Edwards Brothers
Latitude: 42.25186
Longitude: -83.73977
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-2540-90
Release Date: 12/03/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 11/08/1993

UST:

Name: EDWARDS BROTHERS INC
Address: 2500 S STATE ST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EDWARDS BROTHERS INC (Continued)

U000266291

City,State,Zip: ANN ARBOR 48104-6146
Facility Type: CLOSED
Facility ID: 00007580
Owner Name: EDWARDS BROTHERS INC
Owner Address: 2500 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-6146
Owner Contact: Not reported
Owner Phone: 7347691000
Contact: Not reported
Contact Phone: Not reported
Date of Collection: Not reported
Accuracy: Not reported
Horizontal Datum: Not reported
Accuracy Value Unit: Not reported
Source: Not reported
Point Line Area: Not reported
Desc Category: Not reported
Method of Collection: Not reported
District: Not reported
Tank ID: SOUTH
Capacity: 5000
Tank Status: Removed from Ground
Substance: Hazardous Substance(ISO PROP ALCHOL)
Install Date: 03/19/1966
Remove Date: 12/03/1990
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: Not reported
Longitude: Not reported

Name: EDWARDS BROTHERS INC
Address: 2500 S STATE ST
City,State,Zip: ANN ARBOR 48104-6146
Facility Type: CLOSED
Facility ID: 00007580
Owner Name: EDWARDS BROTHERS INC
Owner Address: 2500 S STATE ST
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104-6146
Owner Contact: Not reported
Owner Phone: 7347691000
Contact: Not reported
Contact Phone: Not reported
Date of Collection: Not reported
Accuracy: Not reported
Horizontal Datum: Not reported
Accuracy Value Unit: Not reported
Source: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EDWARDS BROTHERS INC (Continued)

U000266291

Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	NORTH
Capacity:	1500
Tank Status:	Removed from Ground
Substance:	Other(LACTOLENE BLEND)
Install Date:	03/19/1966
Remove Date:	12/03/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	EDWARDS BROTHERS INC
Address:	2500 S STATE ST
City,State,Zip:	ANN ARBOR 48104-6146
Facility Type:	CLOSED
Facility ID:	00007580
Owner Name:	EDWARDS BROTHERS INC
Owner Address:	2500 S STATE ST
Owner City:	ANN ARBOR
Owner State:	MI
Owner Zip:	48104-6146
Owner Contact:	Not reported
Owner Phone:	7347691000
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	MIDDLE
Capacity:	1500
Tank Status:	Removed from Ground
Substance:	Hazardous Substance(ISP PROP ALCHOL)
Install Date:	03/19/1966
Remove Date:	12/03/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EDWARDS BROTHERS INC (Continued)

U000266291

Impressed Device: Not reported
Latitude: Not reported
Longitude: Not reported

INVENTORY:

Name: EDWARDS BROTHERS INC
Address: 2500 S STATE ST
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 56809
Lust Name: Edwards Brothers
Regulatory Program: 213
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.251863
Longitude: -83.739771

Name: 2500 SOUTH STATE STREET
Address: 2500 SOUTH STATE STREET
City,State,Zip: MI 48104
Township: Ann Arbor City
District: Jackson
Data Source: Risks Not Determined
Location ID: 75795
Lust Name: Not reported
Regulatory Program: 201
Release Status: Not reported
Project Manager: Tiernan, Gerald
Latitude: 42.2518
Longitude: -83.7396

BEA:

Name: 2500 SOUTH STATE STREET
Address: 2500 SOUTH STATE STREET
City,State,Zip: MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 03/06/2014
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000740
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201401306JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2014-03-13 14:08:28
Date Completed: Not reported
Township: Ann Arbor City

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EDWARDS BROTHERS INC (Continued)

U000266291

Work Unit: Jackson
 Comments: RECORD MANAGER (LKG) Category B1 Facility ID # 00007580 REVIEW
 CONCLUSION: BEA identifies a new concern, in whole or in part, and assessment of the available information indicates no imminent, ongoing or evident future significant risk exists. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: None No other information at this time.
 Organization: The Regents of the University of Mich
 Contact: Kellie Wing
 Contact Type: Submitter Contact

WDS:

Name: EDWARDS BROTHERS INC
 Address: 2500 S STATE ST
 City,State,Zip: ANN ARBOR, MI 48104
 Site Id: MIK248925646
 WMD Id: 417055
 Site Specific Name: EDWARDS BROTHERS INC
 Mailing Address: 5411 JACKSON ROAD
 Mailing City/State/Zip: 48103
 Mailing County: WASHTENAW

N61
SE
 1/4-1/2
 0.348 mi.
 1839 ft.

2455 S INDUSTRIAL HWY
2455 S INDUSTRIAL HWY
WASHTENAW (County), MI 48104

MI INVENTORY **S114024200**
MI BEA **N/A**

Site 1 of 2 in cluster N

Relative:
Lower
Actual:
825 ft.

INVENTORY:
 Name: 2455 S INDUSTRIAL HWY
 Address: 2455 S INDUSTRIAL HWY
 City,State,Zip: MI 48104
 Township: Ann Arbor City
 District: Jackson
 Data Source: Risks Not Determined
 Location ID: 75792
 Lust Name: Not reported
 Regulatory Program: 01
 Release Status: Not reported
 Project Manager: Tiernan, Gerald
 Latitude: 42.252
 Longitude: -83.7331

BEA:

Name: 2455 S INDUSTRIAL HWY
 Address: 2455 S INDUSTRIAL HWY
 City,State,Zip: MI 48104
 Secondary Address: Not reported
 BEA Number: Not reported
 District: Not reported
 Date Received: 03/12/2009
 Submitter Name: Not reported
 Petition Determination: Not reported
 Petition Disclosure: Not reported
 Category: Not reported
 Determination 20107A: Not reported
 Reviewer: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

2455 S INDUSTRIAL HWY (Continued)

S114024200

Division Assigned:	Not reported
Location ID:	81000737
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B200900962JK
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2009-03-12 13:07:11
Date Completed:	Not reported
Township:	Ann Arbor City
Work Unit:	Jackson
Comments:	Category B1 REVIEW CONCLUSION: BEA identifies a new concern, in whole or in part, and assessment of the available information indicates no imminent, ongoing or evident future significant risk exists. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: Of interest, there was a hit of PCE here and former auto repair activities are likely the cause, however, a BEA investigation does not fully delineate the full extent. While the current information does not suggest any
Organization:	Midwest Creative Investments LLC
Contact:	Mr Mohamad Issa
Contact Type:	Submitter Contact

N62
SE
1/4-1/2
0.348 mi.
1839 ft.

RONS GARAGE
2455 S INDUSTRIAL HWY
ANN ARBOR, MI 48104
Site 2 of 2 in cluster N

MI BEA S109416545
MI WDS N/A

Relative:
Lower
Actual:
825 ft.

BEA:	
Name:	Not reported
Address:	2455 S INDUSTRIAL HWY
City,State,Zip:	ANN ARBOR CITY, MI 48104
Secondary Address:	Not reported
BEA Number:	962
District:	Jackson
Date Received:	03/12/2009
Submitter Name:	Midwest Creative Investments LLC
Petition Determination:	No Request
Petition Disclosure:	0
Category:	N
Determination 20107A:	No Request
Reviewer:	katkov
Division Assigned:	RRD
Location ID:	Not reported
Submittal Type:	Not reported
Submittal Number:	Not reported
Approval Status:	Not reported
Workflow Status:	Not reported
Date Submitted:	Not reported
Date Completed:	Not reported
Township:	Not reported
Work Unit:	Not reported
Comments:	Not reported
Organization:	Not reported
Contact:	Not reported
Contact Type:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RONS GARAGE (Continued)

S109416545

WDS:

Name: RONS GARAGE
Address: 2455 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MIG000015090
WMD Id: 455409
Site Specific Name: RONS GARAGE
Mailing Address: 2455 S INDUSTRIAL HWY
Mailing City/State/Zip: 48104
Mailing County: WASHTENAW

Name: WATERS CORPORATION
Address: 2455 S INDUSTRIAL HWY
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MIK186865481
WMD Id: 478188
Site Specific Name: WATERS CORPORATION
Mailing Address: 2455 S INDUSTRIAL HWY
Mailing City/State/Zip: 48104
Mailing County: WASHTENAW

63
South
1/4-1/2
0.380 mi.
2005 ft.

2565, 2575 & 2601 S. STATE STREET
2565; 2575 & 2601 S. STATE STREET
ANN ARBOR, MI 48104

MI INVENTORY S127819052
N/A

Relative:
Higher
Actual:
863 ft.

INVENTORY:
Name: 2565, 2575 & 2601 S. STATE STREET
Address: 2565; 2575 & 2601 S. STATE STREET
City,State,Zip: ANN ARBOR, MI 48104
Township: Not reported
District: Jackson
Data Source: Risks Not Determined
Location ID: 75799
Lust Name: Not reported
Regulatory Program: 01
Release Status: Not reported
Project Manager: Lesser, Ashley
Latitude: 42.24939481
Longitude: -83.73774613

64
ENE
1/4-1/2
0.406 mi.
2145 ft.

1946 PACKARD STREET
1946 PACKARD RD
ANN ARBOR, MI 48104

MI INVENTORY S123643139
MI BEA N/A

Relative:
Higher
Actual:
834 ft.

INVENTORY:
Name: 1946 PACKARD STREET
Address: 1946 PACKARD RD
City,State,Zip: ANN ARBOR, MI 48104
Township: Not reported
District: Jackson
Data Source: Risks Present and Immediate
Location ID: 39770

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

1946 PACKARD STREET (Continued)

S123643139

Lust Name: Not reported
 Regulatory Program: 001
 Release Status: Not reported
 Project Manager: Lesser, Ashley
 Latitude: 42.25757427
 Longitude: -83.72796046

BEA:

Name: 1946 PACKARD STREET
 Address: 1946 PACKARD RD
 City,State,Zip: ANN ARBOR, MI 48104
 Secondary Address: Not reported
 BEA Number: Not reported
 District: Not reported
 Date Received: 05/04/2018
 Submitter Name: Not reported
 Petition Determination: Not reported
 Petition Disclosure: Not reported
 Category: Not reported
 Determination 20107A: Not reported
 Reviewer: Not reported
 Division Assigned: Not reported
 Location ID: 81000658
 Submittal Type: Baseline Environmental Assessment
 Submittal Number: B201801646JK
 Approval Status: RRD Received
 Workflow Status: Submitted
 Date Submitted: 2018-05-09 12:20:51
 Date Completed: Not reported
 Township: Not reported
 Work Unit: Jackson
 Comments: Not reported
 Organization: Morgan & York NewCo LLC
 Contact: William Teasel
 Contact Type: Submitter Contact

O65
NE
 1/4-1/2
 0.431 mi.
 2275 ft.

MAC'S CONVENIENCE STORES LLC
1420 E STADIUM BLVD
ANN ARBOR, MI 48104
 Site 1 of 3 in cluster O

MI LUST 1000529626
MI UST MID985620954
MI INVENTORY
RCRA NonGen / NLR
MI Financial Assurance
MI WDS

Relative:
Higher

Actual:
837 ft.

LUST:
 Name: CIRCLE K 6301
 Address: 1420 E STADIUM BLVD
 City,State,Zip: ANN ARBOR, MI 48104-
 Facility ID: 00009891
 Source: STATE OF MICHIGAN
 Owner Name: Hop In Michigan Inc
 Owner Address: 4743 Venture Dr
 Owner City,St,Zip: Ann Arbor, MI 48108-
 Owner Contact: Not reported
 Owner Phone: Not reported
 Country: US
 District: Jackson
 Site Name: Clark Store #2134

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Latitude: 42.26056
Longitude: -83.73221
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0104-01
Release Date: 02/26/2001
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: 01/28/2002

Leak Number: C-0170-11
Release Date: 11/04/2011
Substance Released: Gasoline,Gasoline
Release Status: Open
Release Closed Date: Not reported

UST:

Name: CIRCLE K 6301
Address: 1420 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4410
Facility Type: ACTIVE
Facility ID: 00009891
Owner Name: MAC'S CONVENIENCE STORES LLC
Owner Address: 935 TALLMADGE AVE
Owner City: AKRON
Owner State: OH
Owner Zip: 44310
Owner Contact: Not reported
Owner Phone: 3306306300
Contact: Not reported
Contact Phone: Not reported
Date of Collection: Not reported
Accuracy: Not reported
Horizontal Datum: Not reported
Accuracy Value Unit: Not reported
Source: Not reported
Point Line Area: Not reported
Desc Category: Not reported
Method of Collection: Not reported
District: Not reported
Tank ID: 8
Capacity: 2000
Tank Status: Removed from Ground
Substance: Unknown
Install Date: Not reported
Remove Date: 03/27/2018

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	CIRCLE K 6301
Address:	1420 E STADIUM BLVD
City,State,Zip:	ANN ARBOR 48104-4410
Facility Type:	ACTIVE
Facility ID:	00009891
Owner Name:	MAC'S CONVENIENCE STORES LLC
Owner Address:	935 TALLMADGE AVE
Owner City:	AKRON
Owner State:	OH
Owner Zip:	44310
Owner Contact:	Not reported
Owner Phone:	3306306300
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	7
Capacity:	2000
Tank Status:	Removed from Ground
Substance:	Unknown
Install Date:	Not reported
Remove Date:	03/27/2018
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	CIRCLE K 6301
Address:	1420 E STADIUM BLVD
City,State,Zip:	ANN ARBOR 48104-4410
Facility Type:	ACTIVE
Facility ID:	00009891
Owner Name:	MAC'S CONVENIENCE STORES LLC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Owner Address: 935 TALLMADGE AVE
Owner City: AKRON
Owner State: OH
Owner Zip: 44310
Owner Contact: Not reported
Owner Phone: 3306306300
Contact: Not reported
Contact Phone: Not reported
Date of Collection: Not reported
Accuracy: Not reported
Horizontal Datum: Not reported
Accuracy Value Unit: Not reported
Source: Not reported
Point Line Area: Not reported
Desc Category: Not reported
Method of Collection: Not reported
District: Not reported
Tank ID: 6
Capacity: 1000
Tank Status: Removed from Ground
Substance: Unknown
Install Date: Not reported
Remove Date: 03/27/2018
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: Not reported
Longitude: Not reported

Name: CIRCLE K 6301
Address: 1420 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4410
Facility Type: ACTIVE
Facility ID: 00009891
Owner Name: MAC'S CONVENIENCE STORES LLC
Owner Address: 935 TALLMADGE AVE
Owner City: AKRON
Owner State: OH
Owner Zip: 44310
Owner Contact: Not reported
Owner Phone: 3306306300
Contact: Mike Teter
Contact Phone: (330) 630-6300
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Tank ID: 5
Capacity: 20000
Tank Status: Currently In Use
Substance: Diesel,Gasoline
Install Date: 11/02/2011
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: No
Latitude: 42.26056
Longitude: -83.73221

Name: CIRCLE K 6301
Address: 1420 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4410
Facility Type: ACTIVE
Facility ID: 00009891
Owner Name: MAC'S CONVENIENCE STORES LLC
Owner Address: 935 TALLMADGE AVE
Owner City: AKRON
Owner State: OH
Owner Zip: 44310
Owner Contact: Not reported
Owner Phone: 3306306300
Contact: Mike Teter
Contact Phone: (330) 630-6300
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 4
Capacity: 20000
Tank Status: Currently In Use
Substance: Gasoline
Install Date: 11/12/2011
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26056
Longitude: -83.73221

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Name: CIRCLE K 6301
Address: 1420 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4410
Facility Type: ACTIVE
Facility ID: 00009891
Owner Name: MAC'S CONVENIENCE STORES LLC
Owner Address: 935 TALLMADGE AVE
Owner City: AKRON
Owner State: OH
Owner Zip: 44310
Owner Contact: Not reported
Owner Phone: 3306306300
Contact: Mike Teter
Contact Phone: (330) 630-6300
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 3
Capacity: 6000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 01/01/1973
Remove Date: 10/26/2011
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26056
Longitude: -83.73221

Name: CIRCLE K 6301
Address: 1420 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4410
Facility Type: ACTIVE
Facility ID: 00009891
Owner Name: MAC'S CONVENIENCE STORES LLC
Owner Address: 935 TALLMADGE AVE
Owner City: AKRON
Owner State: OH
Owner Zip: 44310
Owner Contact: Not reported
Owner Phone: 3306306300
Contact: Mike Teter
Contact Phone: (330) 630-6300
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 2
Capacity: 10000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 01/01/1973
Remove Date: 10/26/2011
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26056
Longitude: -83.73221

Name: CIRCLE K 6301
Address: 1420 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4410
Facility Type: ACTIVE
Facility ID: 00009891
Owner Name: MAC'S CONVENIENCE STORES LLC
Owner Address: 935 TALLMADGE AVE
Owner City: AKRON
Owner State: OH
Owner Zip: 44310
Owner Contact: Not reported
Owner Phone: 3306306300
Contact: Mike Teter
Contact Phone: (330) 630-6300
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 10000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 01/01/1973
Remove Date: 10/26/2011
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26056
Longitude: -83.73221

INVENTORY:

Name: CIRCLE K 6301
Address: 1420 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104
Township: Not reported
District: Jackson
Data Source: Not reported
Location ID: 51322
Lust Name: Mac's #6301
Regulatory Program: 13
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.26056129
Longitude: -83.73221906

RCRA NonGen / NLR:

Date Form Received by Agency: 20120112
Handler Name: MAC'S CONVENIENCE STORES LLC
Handler Address: 1420 E STADIUM BLVD
Handler City,State,Zip: ANN ARBOR, MI 48104
EPA ID: MID985620954
Contact Name: ALAN CUBBERLEY
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: 330-630-6300 1823
Contact Fax: Not reported
Contact Email: ACUBBERLEY@CIRCLEK.COM
Contact Title: Not reported
EPA Region: 05
Land Type: Private
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 935 E TALLMADGE AVE
Mailing City,State,Zip: AKRON, OH 44310
Owner Name: MAC'S CONVENIENCE STORES LLC
Owner Type: Private
Operator Name: MAC'S CONVENIENCE STORES LLC
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20120208
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
---------------------------	-------

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Owner/Operator Name: GALLUP PROPERTIES (PROPERTY OWNER)
Legal Status: Private
Date Became Current: 19970102
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MAC'S CONVENIENCE STORES LLC
Legal Status: Private
Date Became Current: 20030601
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CLARK REFINING & MARKETING INC
Legal Status: Private
Date Became Current: 19970102
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CLARK RETAIL ENTERPRISES INC
Legal Status: Private
Date Became Current: 20021022
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CLARK RETAIL ENTERPRISES INC
Legal Status: Private
Date Became Current: 20021022
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLARK REFINING & MARKETING INC
Legal Status:	Private
Date Became Current:	19970102
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CLARK RETAIL ENTERPRISES INC
Legal Status:	Private
Date Became Current:	20021022
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MAC'S CONVENIENCE STORES LLC
Legal Status:	Private
Date Became Current:	20030601
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	GALLUP PROPERTIES (PROPERTY OWNER)
Legal Status:	Private
Date Became Current:	19970102
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CLARK RETAIL ENTERPRISES INC
Legal Status:	Private
Date Became Current:	20021022
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MAC'S CONVENIENCE STORES LLC
Legal Status: Private
Date Became Current: 20030601
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MAC'S CONVENIENCE STORES LLC
Legal Status: Private
Date Became Current: 20030601
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19910812
Handler Name: CLARK RETAIL ENTERPRISES INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20011108
Handler Name: CLARK RETAIL ENTERPRISES INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20111010

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

Handler Name: MAC'S CONVENIENCE STORES LLC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20120112
Handler Name: MAC'S CONVENIENCE STORES LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 44719
NAICS Description: OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINANCIAL ASSURANCE 3:

Name: CIRCLE K 4706301
Address: 1420 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104-4410
Facility ID: 00009891
Exempt: No
Expiration Date: 12/01/2021
Bond Rating Tests: Not reported
Commerical Insurance: CHECKED
Guarantee: Not reported
Letter of Credit: Not reported
Risk Retention Group: Not reported
Self Insurance: Not reported
State Funds: Not reported
Surety Bond: Not reported
Trust Funds: Not reported
Year: 2020

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MAC'S CONVENIENCE STORES LLC (Continued)

1000529626

WDS:

Name: MAC'S CONVENIENCE STORES LLC
 Address: 1420 E STADIUM BLVD
 City,State,Zip: ANN ARBOR, MI 48104
 Site Id: MID985620954
 WMD Id: 405948
 Site Specific Name: CIRCLE K #6301
 Mailing Address: 935 E TALLMADGE AVE
 Mailing City/State/Zip: 44310
 Mailing County: Not reported

Name: MAC'S CONVENIENCE STORES LLC
 Address: 1420 E STADIUM DR
 City,State,Zip: ANN ARBOR, MI 48104
 Site Id: MIK124243185
 WMD Id: 490829
 Site Specific Name: CIRCLE K #6301
 Mailing Address: 935 E TALLMADGE AVE
 Mailing City/State/Zip: 44310
 Mailing County: Not reported

O66
NE
1/4-1/2
0.465 mi.
2455 ft.

CITGO GAS STATION
1500 E STADIUM
ANN ARBOR CITY, MI 48104
Site 2 of 3 in cluster O

MI BEA S108986768
MI WDS N/A

Relative:
Higher
Actual:
839 ft.

BEA:

Name: CITGO GAS STATION
 Address: 1500 E STADIUM
 City,State,Zip: ANN ARBOR CITY, MI 48104
 Secondary Address: Not reported
 BEA Number: 861
 District: Jackson
 Date Received: 01/09/2008
 Submitter Name: A2 Fuel Inc
 Petition Determination: No Request
 Petition Disclosure: 0
 Category: S
 Determination 20107A: No Request
 Reviewer: englishc
 Division Assigned: STD
 Location ID: Not reported
 Submittal Type: Not reported
 Submittal Number: Not reported
 Approval Status: Not reported
 Workflow Status: Not reported
 Date Submitted: Not reported
 Date Completed: Not reported
 Township: Not reported
 Work Unit: Not reported
 Comments: Not reported
 Organization: Not reported
 Contact: Not reported
 Contact Type: Not reported

Name: CITGO GAS STATION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITGO GAS STATION (Continued)

S108986768

Address: 1500 E STADIUM
City,State,Zip: ANN ARBOR CITY, MI 48104
Secondary Address: Not reported
BEA Number: 862
District: Jackson
Date Received: 01/09/2008
Submitter Name: Power Station Fuel Inc
Petition Determination: No Request
Petition Disclosure: 0
Category: S
Determination 20107A: No Request
Reviewer: englishc
Division Assigned: STD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

WDS:

Name: WEAVERS MARATHON
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104
Site Id: MID072782931
WMD Id: 397089
Site Specific Name: WEAVERS MARATHON
Mailing Address: 1500 E STADIUM BLVD
Mailing City/State/Zip: 48104
Mailing County: WASHTENAW

O67 WEAVERS MARATHON
NE 1500 E STADIUM BLVD
1/4-1/2 ANN ARBOR, MI 48104
0.465 mi.
2455 ft. Site 3 of 3 in cluster O

Relative:
Higher

Actual:
839 ft.

RCRA-VSQQ:

Date Form Received by Agency: 20021231
Handler Name: WEAVERS MARATHON
Handler Address: 1500 E STADIUM BLVD
Handler City,State,Zip: ANN ARBOR, MI 48104
EPA ID: MID072782931
Contact Name: ERNIE WEAVER
Contact Address: 1500 E STADIUM BLVD
Contact City,State,Zip: ANN ARBOR, MI 48104
Contact Telephone: 734-994-4510

RCRA-VSQQ 1000431308
MI LUST MID072782931
MI UST
MI INVENTORY
FINDS
ECHO
MI BEA
MI Financial Assurance

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1500 E STADIUM BLVD
Mailing City,State,Zip:	ANN ARBOR, MI 48104
Owner Name:	WEAVER ERNIE
Owner Type:	Private
Operator Name:	WEAVER ERNIE
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20110303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	WEAVER ERNIE
Legal Status:	Private
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WEAVER ERNIE
Legal Status:	Private
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WEAVER ERNIE
Legal Status:	Private
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: WEAVER ERNIE
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WEAVER ERNIE
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WEAVER ERNIE
Legal Status: Private
Date Became Current: 19700101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19891220
Handler Name: WEAVERS MARATHON
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20021230
Handler Name: WEAVERS MARATHON
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20021231
Handler Name: WEAVERS MARATHON
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 44719
NAICS Description: OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

LUST:

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104-
Facility ID: 00016303
Source: STATE OF MICHIGAN
Owner Name: NabilHassan
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Jackson
Site Name: Weavers Marathon
Latitude: 42.26060
Longitude: -83.72953
Date of Collection: 09/25/2003
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 40
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-0521-89
Release Date: 09/14/1989
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 11/02/1995

UST:

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668
Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 9
Capacity: 4000
Tank Status: Currently In Use
Substance: Gasoline
Install Date: 09/12/1989
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26060
Longitude: -83.72953

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668
Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 8
Capacity: 10000
Tank Status: Currently In Use
Substance: Gasoline
Install Date: 09/12/1989
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26060
Longitude: -83.72953

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668
Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
District: Region 2 - Jackson District Office
Tank ID: 7
Capacity: 10000
Tank Status: Currently In Use
Substance: Gasoline
Install Date: 09/12/1989
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26060
Longitude: -83.72953

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668
Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 6
Capacity: 10000
Tank Status: Currently In Use
Substance: Gasoline
Install Date: 09/12/1989
Remove Date: Not reported
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Latitude: 42.26060
Longitude: -83.72953

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668
Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 5
Capacity: 3000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/24/1964
Remove Date: 09/13/1989
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26060
Longitude: -83.72953

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 3000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/24/1964
Remove Date: 09/13/1989
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26060
Longitude: -83.72953

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668
Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/24/1964
Remove Date: 09/13/1989
Tank Number: Not reported
Tank Details Compartments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26060
Longitude: -83.72953

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668
Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 3000
Tank Status: Removed from Ground
Substance: Diesel
Install Date: 04/24/1964
Remove Date: 09/13/1989
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26060
Longitude: -83.72953

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: ACTIVE
Facility ID: 00016303
Owner Name: Not reported
Owner Address: 1500 E. STADIUM BLVID.
Owner City: ANN ARBOR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Owner State: MI
Owner Zip: 48104
Owner Contact: Not reported
Owner Phone: 7344312564
Contact: Daryoush Zahrare
Contact Phone: (734) 780-5668
Date of Collection: 09/25/2003
Accuracy: 40
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
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: 10000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/24/1980
Remove Date: 09/13/1989
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26060
Longitude: -83.72953

INVENTORY:

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 47064
Lust Name: Weavers Marathon
Regulatory Program: 13
Release Status: Closed
Project Manager: Hiske, Terry
Latitude: 42.260607
Longitude: -83.729532

FINDS:

Registry ID: 110003603244

Click Here:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

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: 1000431308
Registry ID: 110003603244
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003603244>
Name: WEAVERS MARATHON
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104

BEA:

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 01/09/2008
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 00016303
Submittal Type: Baseline Environmental Assessment
Submittal Number: B200800862JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2008-01-09 16:03:48
Date Completed: Not reported
Township: Ann Arbor
Work Unit: Jackson
Comments: Not reported
Organization: Power Station Fuel Inc
Contact: Mr Samir Saad
Contact Type: Submitter Contact

Name: 1500 EAST STADIUM PROPERTY INC.
Address: 1500 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 01/09/2008
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WEAVERS MARATHON (Continued)

1000431308

Location ID: 00016303
 Submittal Type: Baseline Environmental Assessment
 Submittal Number: B200800861JK
 Approval Status: RRD Received
 Workflow Status: Submitted
 Date Submitted: 2008-01-09 16:01:22
 Date Completed: Not reported
 Township: Ann Arbor
 Work Unit: Jackson
 Comments: Not reported
 Organization: A2 Fuel Inc
 Contact: Mr Samir Saad
 Contact Type: Submitter Contact

FINANCIAL ASSURANCE 3:

Name: 1500 EAST STADIUM PROPERTY INC.
 Address: 1500 E STADIUM BLVD
 City,State,Zip: ANN ARBOR, MI 48104-4477
 Facility ID: 00016303
 Exempt: No
 Expiration Date: 10/27/2021
 Bond Rating Tests: Not reported
 Commerical Insurance: Not reported
 Guarantee: Not reported
 Letter of Credit: Not reported
 Risk Retention Group: Not reported
 Self Insurance: Not reported
 State Funds: CHECKED
 Surety Bond: Not reported
 Trust Funds: Not reported
 Year: 2020

68
 NE
 1/4-1/2
 0.493 mi.
 2605 ft.

ANN ARBOR FIRE DEPT STATION #2
1510 E STADIUM BLVD
ANN ARBOR, MI 48104

MI LUST U000266199
MI UST N/A
MI INVENTORY
MI WDS

Relative:
Higher
Actual:
842 ft.

LUST:
 Name: ANN ARBOR FIRE DEPT STATION #2
 Address: 1510 E STADIUM BLVD
 City,State,Zip: ANN ARBOR, MI 48104-
 Facility ID: 00010254
 Source: STATE OF MICHIGAN
 Owner Name: Cityof Ann Arbor
 Owner Address: Not reported
 Owner City,St,Zip: UNKNOWN, MI
 Owner Contact: Not reported
 Owner Phone: Not reported
 Country: USA
 District: Jackson
 Site Name: Ann Arbor Fire Station #2
 Latitude: 42.26063
 Longitude: -83.72949
 Date of Collection: 01/11/2001
 Method of Collection: Address Matching-House Number
 Accuracy: 100

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANN ARBOR FIRE DEPT STATION #2 (Continued)

U000266199

Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-1131-89
Release Date: 12/16/1989
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 11/23/1992

Leak Number: C-2114-91
Release Date: 10/23/1991
Substance Released: Unknown,Unknown
Release Status: Closed
Release Closed Date: 11/23/1992

UST:

Name: ANN ARBOR FIRE DEPT STATION #2
Address: 1510 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: CLOSED
Facility ID: 00010254
Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported
Owner Phone: 7347946000
Contact: DANIEL J. CULLEN
Contact Phone: (734) 994-6696
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 2
Capacity: 550
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 03/19/1954
Remove Date: 12/13/1989
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANN ARBOR FIRE DEPT STATION #2 (Continued)

U000266199

Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26063
Longitude: -83.72949

Name: ANN ARBOR FIRE DEPT STATION #2
Address: 1510 E STADIUM BLVD
City,State,Zip: ANN ARBOR 48104-4477
Facility Type: CLOSED
Facility ID: 00010254
Owner Name: CITY OF ANN ARBOR
Owner Address: PO BOX 8647 100 N FIFTH AVE
Owner City: ANN ARBOR
Owner State: MI
Owner Zip: 48107
Owner Contact: Not reported
Owner Phone: 7347946000
Contact: DANIEL J. CULLEN
Contact Phone: (734) 994-6696
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 2 - Jackson District Office
Tank ID: 1
Capacity: 1000
Tank Status: Removed from Ground
Substance: Diesel
Install Date: 03/19/1978
Remove Date: 09/15/1991
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.26063
Longitude: -83.72949

INVENTORY:

Name: ANN ARBOR FIRE DEPT STATION #2
Address: 1510 E STADIUM BLVD
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor
District: Jackson
Data Source: Not reported
Location ID: 56368
Lust Name: Ann Arbor Fire Station #2
Regulatory Program: 13
Release Status: Closed

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ANN ARBOR FIRE DEPT STATION #2 (Continued)

U000266199

Project Manager: Hiske, Terry
 Latitude: 42.260633
 Longitude: -83.72949

WDS:

Name: CITY OF ANN ARBOR
 Address: 1510 E STADIUM BLVD
 City,State,Zip: ANN ARBOR, MI 48104
 Site Id: MIG000029063
 WMD Id: 420758
 Site Specific Name: CITY OF ANN ARBOR
 Mailing Address: 1510 E STADIUM BLVD
 Mailing City/State/Zip: 48104
 Mailing County: WASHTENAW

69
ESE
1/2-1
0.704 mi.
3717 ft.

GEORGETOWN CLEANERS
2502-2568 PACKARD ROAD
ANN ARBOR, MI 48104

MI AUL
MI PART 201
MI INVENTORY
MI BEA

S108632630
N/A

Relative:
Higher
Actual:
842 ft.

AUL:

Name: GEORGETOWN CLEANERS
 Address: 2502-2568 PACKARD STREET
 City,State,Zip: ANN ARBOR CITY, MI 48104
 Status: Recorded
 Site Name: Georgetown Cleaners
 Property: On-site
 Land Use Restriction Type: RC
 Program Type: Part 201
 Program Support Assigned User: Nicholas Ekel
 Program Support Assigned Date: 11/27/2013
 Legal Description Of Property: Site Address
 Based On The Deq Ref #: 11420112010
 MDEQ Reference Number: RC-RD-201-12-010
 Property Or Description Restricted Area: Not reported
 Lead Division: RD
 File Name Of Hyperlinked Legal Doc: U:\\KERMIT\\11420112010.PDF
 Mapped Polygons Area In Acres: 6.518399999999997
 Mapped Polygons Area In Square Miles: 0.0101
 Date Data Entry Started: 12/02/2013
 Date Data Entry Finished: 12/02/2013
 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: 05/17/2012
 Commercial I Land Use Restriction: 0
 Commercial Ii Land Use Restriction: 0
 Commercial Iii Land Use Restriction: 0
 Commercial Iv Land Use Restriction: 0
 Industrial Land Use Restriction: 0
 Residential Land Use Restriction: 0
 Recreational Land Use Restriction: 0
 Multiple Land-Use Restrictions: 0
 Site Specific Restrictions: 1
 Groundwater Consumption Restrictions: 0
 Groundwater Contact Restrictions: 0
 Special Well Construction Requirements: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGETOWN CLEANERS (Continued)

S108632630

Special Building Restrictions: 1
Excavation And Soil Movement Restrictions: 0
Soil Movement Requirements: 0
There Is A Restriction On All Construction: 0
Monitoring Well Protected, No Tampering Or Removal: 0
There Is An Exposure Barrier In Place: 0
There Is A Health And Safety Plan: 0
There Is A Permanent Marker On The Site: 0
Comment: Number generated by J. Mosher 2/24/12
Map Comments: 20131127 - LRUR is NOT mapped in KERMIT - Nick Ekel 20131202 - LRUR is mapped in KERMIT - Nick Ekel

PART 201:

Facility ID: 81000534
Facility Status: Evaluation in progress
Source: Not reported
SAM Score: 40
SAM Score Date: 07/06/2004
Township: 03S
Range: 06E
Section: 4
Quarter: SE
Quarter/Quarter: NE
Pollutants: Not reported

INVENTORY:

Name: GEORGETOWN CLEANERS
Address: 2502-2568 PACKARD ROAD
City,State,Zip: ANN ARBOR, MI 48104
Township: Ann Arbor City
District: Jackson
Data Source: Risks Not Determined
Location ID: 5275
Lust Name: Not reported
Regulatory Program: 201
Release Status: Not reported
Project Manager: Hamel, Daniel
Latitude: 42.250021
Longitude: -83.723378

BEA:

Name: Not reported
Address: 2502-2568 PACKARD STREET
City,State,Zip: ANN ARBOR CITY, MI 48104
Secondary Address: Not reported
BEA Number: 1184
District: Jackson
Date Received: 07/30/2012
Submitter Name: PSAA LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: hisket
Division Assigned: RD
Location ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGETOWN CLEANERS (Continued)

S108632630

Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: Not reported
Address: 2502-2568 PACKARD STREET
City,State,Zip: ANN ARBOR CITY, MI 48104
Secondary Address: Not reported
BEA Number: 1185
District: Jackson
Date Received: 07/30/2012
Submitter Name: Packard Square LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: hisket
Division Assigned: RD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported
Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: GEORGETOWN CLEANERS
Address: 2502-2568 PACKARD ROAD
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 11/04/2003
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000534
Submittal Type: Baseline Environmental Assessment

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGETOWN CLEANERS (Continued)

S108632630

Submittal Number: P200300504JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 07:29:04
Date Completed: Not reported
Township: Ann Arbor City
Work Unit: Jackson
Comments: CONTENT MANAGER Accepted without check; fee rules expired. Sent letter offering comments BEA not approved or denied, awaiting further info.
Organization: Collectively the client
Contact: Christopher Crouch
Contact Type: Submitter Contact

Name: GEORGETOWN CLEANERS
Address: 2502-2568 PACKARD ROAD
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 01/08/2001
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000534
Submittal Type: Baseline Environmental Assessment
Submittal Number: P200100272JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 07:29:04
Date Completed: Not reported
Township: Ann Arbor City
Work Unit: Jackson
Comments: CONTENT MANAGER
Organization: Harbor Georgetown LLC
Contact: Craig Schubiner
Contact Type: Submitter Contact

Name: GEORGETOWN CLEANERS
Address: 2502-2568 PACKARD ROAD
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 07/30/2012
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000534
Submittal Type: Baseline Environmental Assessment

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GEORGETOWN CLEANERS (Continued)

S108632630

Submittal Number: B201201184JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2012-07-30 13:19:11
Date Completed: Not reported
Township: Ann Arbor City
Work Unit: Jackson
Comments: CONTENT MANAGER Category A1 81000534 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: Impacts being addressed under brownfield redevelopment.
Organization: PSAA LLC
Contact: Janet Michaluk
Contact Type: Submitter Contact

Name: GEORGETOWN CLEANERS
Address: 2502-2568 PACKARD ROAD
City,State,Zip: ANN ARBOR, MI 48104
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 07/30/2012
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 81000534
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201201185JK
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2012-07-30 13:26:11
Date Completed: Not reported
Township: Ann Arbor City
Work Unit: Jackson
Comments: Category A1 81000534 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: Impacts being addressed under brownfield redevelopment. (any other information is entered here) Notification provided to: Date: (Name here) (date)
Organization: Packard Square LLC
Contact: Janet Michaluk
Contact Type: Submitter Contact

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

P70 **SMALL ARMS RANGE**
SSE
1/2-1 **ANN ARBOR, MI**
0.741 mi.
3912 ft. **Site 1 of 2 in cluster P**

UXO **1024714418**
N/A

Relative: UXO:
Higher DoD Component: FUDS
Installation Name: ANN ARBOR NGTR
Actual: Name: SMALL ARMS RANGE
828 ft. Address: Not reported
Address 2: Not reported
City,State,Zip: ANN ARBOR, MI
Site ID: 01OEW
Site Type: Unexploded Munitions and Ordnance Area
Latitude: 42.244999
Longitude: -83.729797

P71 **ANN ARBOR NGTR**
SSE **ANN ARBOR, MI**
1/2-1 **ANN ARBOR, MI**
0.741 mi.
3912 ft. **Site 2 of 2 in cluster P**

FUDS **1009484699**
N/A

Relative: FUDS:
Higher EPA Region: 5
Installation ID: MI59799F228800
Actual: Congressional District Number: 12
828 ft. Name: ANN ARBOR NGTR
FUDS Number: E05MI0136
City: ANN ARBOR
State: MI
County: WASHTENAW
Object ID: 7016
USACE Division: LRD
USACE District: Louisville District (LRL)
Status: Properties with all projects at site closeout
Current Owner: PRIV: PRIVATE corporation, cable co., residential
EMS Map Link: <https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=55141>
Eligibility: Eligible
Has Projects: Yes
NPL Status: Not on the NPL
Property History: DoD purchased two tracts of land totaling 10.37 acres in fee by warranty deed on 13 July 1908. The property was used as a rifle range for small arms marksmanship training. There is no indication of any structures being built on the site while under DoD ownership. On 26 September 1945, the Federal Farm Mortgage Corporation assumed accountability for the property. The property was subsequently conveyed to other entities on 23 May 1946.

Project Required: Yes
Feature Description: Not reported
Latitude: 42.244999
Longitude: -83.729797

FUDS Detail as of Jan 2015:
Fiscal Year: 2013
Federal Facility ID: MI9799F2288
RAB: Not reported
NPL Status: Not Listed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANN ARBOR NGTR (Continued)

1009484699

Description: There is no record of improvements to the site. The 10.37-acre property was suitable for two or three targets.

History: DoD purchased two tracts of land totaling 10.37 acres in fee by warranty deed on 13 July 1908. The property was used as a rifle range for small arms marksmanship training. There is no indication of any structures being built on the site while under DoD ownership. On 26 September 1945, the Federal Farm Mortgage Corporation assumed accountability for the property. The property was subsequently conveyed to other entities on 23 May 1946.

CTC: 55.5

Current Program: Not reported

Future Program: Not reported

Institutional ID: 55141

MRA:

Inst ID: 55141

FUDS Number: E05MI0136

Facility Name: ANN ARBOR NGTR

PHASE: 2

ARC: Y

DIST: LRL

MMRP: Y

MRA ID: 1

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ANN ARBOR	1015731350	M14 ROLLOVER	SOUTH BOUND RAMP M14 AT US 23	48103	SEMS

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

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

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

Date of Government Version: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: N/A
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 02/03/2022
Number of Days to Update: 24	Next Scheduled EDR Contact: 04/11/2022
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: N/A
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 02/03/2022
Number of Days to Update: 24	Next Scheduled EDR Contact: 04/11/2022
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: N/A
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: 800-424-9346
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 02/03/2022
Number of Days to Update: 24	Next Scheduled EDR Contact: 04/25/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2021	Source: EPA
Date Data Arrived at EDR: 09/15/2021	Telephone: 800-424-9346
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 312-886-6186
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 312-886-6186
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 312-886-6186
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 312-886-6186
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	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: 11/15/2021	Source: Department of the Navy
Date Data Arrived at EDR: 11/16/2021	Telephone: 843-820-7326
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 02/07/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/23/2022
	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: 11/19/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/19/2021	Telephone: 703-603-0695
Date Made Active in Reports: 02/14/2022	Last EDR Contact: 11/18/2021
Number of Days to Update: 87	Next Scheduled EDR Contact: 03/07/2022
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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: 11/19/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/19/2021	Telephone: 703-603-0695
Date Made Active in Reports: 02/14/2022	Last EDR Contact: 11/19/2021
Number of Days to Update: 87	Next Scheduled EDR Contact: 03/07/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 09/13/2021

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 09/21/2021

Telephone: 202-267-2180

Date Made Active in Reports: 12/15/2021

Last EDR Contact: 12/16/2021

Number of Days to Update: 85

Next Scheduled EDR Contact: 04/04/2022

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

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

Source: Department of Environment, Great Lakes, and Energy

Date Data Arrived at EDR: 10/31/2013

Telephone: 517-284-5103

Date Made Active in Reports: 11/20/2013

Last EDR Contact: 01/18/2022

Number of Days to Update: 20

Next Scheduled EDR Contact: 05/02/2022

Data Release Frequency: No Update Planned

Lists of state and tribal landfills and solid waste disposal facilities

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: 09/20/2021

Source: Department of Environment, Great Lakes, and Energy

Date Data Arrived at EDR: 09/21/2021

Telephone: 517-335-4035

Date Made Active in Reports: 12/08/2021

Last EDR Contact: 12/16/2021

Number of Days to Update: 78

Next Scheduled EDR Contact: 04/04/2022

Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank Sites

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

Date of Government Version: 11/08/2021

Source: Department of Environment, Great Lakes, and Energy

Date Data Arrived at EDR: 11/11/2021

Telephone: 517-373-9837

Date Made Active in Reports: 01/28/2022

Last EDR Contact: 02/07/2022

Number of Days to Update: 78

Next Scheduled EDR Contact: 05/23/2022

Data Release Frequency: Annually

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: 04/28/2021

Source: EPA Region 1

Date Data Arrived at EDR: 06/11/2021

Telephone: 617-918-1313

Date Made Active in Reports: 09/07/2021

Last EDR Contact: 01/18/2022

Number of Days to Update: 88

Next Scheduled EDR Contact: 05/02/2022

Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2021	Source: EPA Region 10
Date Data Arrived at EDR: 11/15/2021	Telephone: 206-553-2857
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 01/18/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/02/2022
	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: 10/12/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/15/2021	Telephone: 415-972-3372
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 01/18/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/02/2022
	Data Release Frequency: Varies

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: 10/12/2021	Source: EPA Region 8
Date Data Arrived at EDR: 11/15/2021	Telephone: 303-312-6271
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 01/18/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/02/2022
	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: 10/12/2021	Source: EPA Region 6
Date Data Arrived at EDR: 11/15/2021	Telephone: 214-665-6597
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 01/18/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/02/2022
	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: 10/12/2021	Source: EPA Region 7
Date Data Arrived at EDR: 11/15/2021	Telephone: 913-551-7003
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 01/18/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/02/2022
	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: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-8677
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 01/18/2022
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/02/2022
	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: 10/12/2021	Source: EPA, Region 5
Date Data Arrived at EDR: 11/15/2021	Telephone: 312-886-7439
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 01/18/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/02/2022
	Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

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: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 02/07/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 04/18/2022
	Data Release Frequency: Varies

UST: Underground Storage Tank Facility List

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

Date of Government Version: 10/01/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 11/02/2021	Telephone: 517-373-1820
Date Made Active in Reports: 01/25/2022	Last EDR Contact: 02/11/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/23/2022
	Data Release Frequency: Annually

UST 2: Underground Storage Tank Listing

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

Date of Government Version: 07/21/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 07/26/2021	Telephone: 517-373-1820
Date Made Active in Reports: 10/20/2021	Last EDR Contact: 01/26/2022
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/25/2022
	Data Release Frequency: Varies

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 11/10/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 12/01/2021	Telephone: 517-373-1820
Date Made Active in Reports: 02/14/2022	Last EDR Contact: 02/07/2022
Number of Days to Update: 75	Next Scheduled EDR Contact: 05/23/2022
	Data Release Frequency: No Update Planned

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: 10/12/2021	Source: EPA Region 6
Date Data Arrived at EDR: 11/15/2021	Telephone: 214-665-7591
Date Made Active in Reports: 02/08/2022	Last EDR Contact: 01/18/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/02/2022
	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: 04/06/2021	Source: EPA Region 5
Date Data Arrived at EDR: 06/11/2021	Telephone: 312-886-6136
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 02/09/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/02/2022
	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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AUL: Engineering and Institutional Controls

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

Date of Government Version: 11/15/2021

Date Data Arrived at EDR: 11/18/2021

Date Made Active in Reports: 12/14/2021

Number of Days to Update: 26

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4828

Last EDR Contact: 02/17/2022

Next Scheduled EDR Contact: 06/05/2022

Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

Date of Government Version: 03/20/2008

Date Data Arrived at EDR: 04/22/2008

Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7

Telephone: 913-551-7365

Last EDR Contact: 07/08/2021

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: 12/14/2021

Next Scheduled EDR Contact: 04/04/2022

Data Release Frequency: Varies

Lists of state and tribal brownfield 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: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4805

Last EDR Contact: 01/18/2022

Next Scheduled EDR Contact: 05/02/2022

Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

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

Date of Government Version: 10/18/2021

Date Data Arrived at EDR: 10/20/2021

Date Made Active in Reports: 01/12/2022

Number of Days to Update: 84

Source: Economic Development Corporation

Telephone: 888-522-0103

Last EDR Contact: 01/18/2022

Next Scheduled EDR Contact: 05/02/2022

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 03/28/2022
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: 06/08/2021
Date Data Arrived at EDR: 06/09/2021
Date Made Active in Reports: 09/01/2021
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-5719
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Varies

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

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

Source: Department of Environment, Great Lakes, and Energy
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: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
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: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

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

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

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: No Update Planned

INVENTORY: Inventory of Facilities

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

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 12/02/2021
Number of Days to Update: 44

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-5136
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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 Environment, Great Lakes, and Energy
Telephone: 517-284-5103
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 10/22/2021
Date Data Arrived at EDR: 11/23/2021
Date Made Active in Reports: 02/15/2022
Number of Days to Update: 84

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEL PART 201: Delisted List of Contaminated Sites

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

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

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

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
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: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contaminated Sites Listing

PFAS have been widely used in numerous industrial and residential applications since the 1950s. Their stability and unique chemical properties produce waterproof, stain resistant, and nonstick qualities in products. They are found in some firefighting foams and a wide range of consumer products such as carpet treatments, non-stick cookware, water-resistant fabrics, food packaging materials, and personal care products.

Date of Government Version: 11/12/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 01/31/2022
Number of Days to Update: 80

Source: Department of Environment, Great Lakes & Energy
Telephone: 517-284-9278
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

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: 10/07/2021
Date Data Arrived at EDR: 10/08/2021
Date Made Active in Reports: 01/06/2022
Number of Days to Update: 90

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-7603
Last EDR Contact: 01/12/2022
Next Scheduled EDR Contact: 04/25/2022
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 09/12/2021
Date Data Arrived at EDR: 09/13/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 15

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
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: 06/30/2021
Date Data Arrived at EDR: 07/26/2021
Date Made Active in Reports: 10/20/2021
Number of Days to Update: 86

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-8427
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

Other Ascertainable Records

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

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

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
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: 10/26/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
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: 01/14/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 01/07/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/18/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/08/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/23/2022
	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: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 202-566-1917
Date Made Active in Reports: 09/28/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/04/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 02/01/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/16/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 02/03/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 05/16/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 12/17/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 03/28/2022
	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: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 02/18/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/30/2022
	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: 10/18/2021	Source: EPA
Date Data Arrived at EDR: 10/20/2021	Telephone: 202-564-4203
Date Made Active in Reports: 01/10/2022	Last EDR Contact: 01/19/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/02/2022
	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: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: 703-416-0223
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 02/03/2022
Number of Days to Update: 24	Next Scheduled EDR Contact: 03/14/2022
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/20/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-564-8600
Date Made Active in Reports: 11/12/2021	Last EDR Contact: 01/18/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 05/02/2022
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-564-6023
Date Made Active in Reports: 12/15/2021	Last EDR Contact: 02/03/2022
Number of Days to Update: 40	Next Scheduled EDR Contact: 05/16/2022
	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: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 01/07/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 04/18/2022
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/29/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/18/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

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

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

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

Date of Government Version: 07/29/2021	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/24/2021	Telephone: 301-415-7169
Date Made Active in Reports: 11/19/2021	Last EDR Contact: 01/18/2022
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/02/2022
	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: 12/31/2019	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 11/30/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 03/14/2022
	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: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 12/02/2021
Number of Days to Update: 251	Next Scheduled EDR Contact: 03/14/2022
	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: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/04/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/16/2022
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/27/2021
Next Scheduled EDR Contact: 04/11/2022
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 Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/08/2022
Data Release Frequency: Quarterly

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: 09/30/2021
Date Data Arrived at EDR: 10/13/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2022
Next Scheduled EDR Contact: 04/18/2022
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: 12/31/2019
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 90

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/04/2022
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/18/2022
	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: 07/26/2021	Source: Department of Energy
Date Data Arrived at EDR: 07/27/2021	Telephone: 202-586-3559
Date Made Active in Reports: 10/22/2021	Last EDR Contact: 01/31/2022
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/16/2022
	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: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/17/2022
Number of Days to Update: 74	Next Scheduled EDR Contact: 05/30/2022
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/20/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2021	Telephone: 703-603-8787
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 05/03/2022
Number of Days to Update: 24	Next Scheduled EDR Contact: 04/11/2022
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/02/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
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: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 91

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 03/21/2022
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: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
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: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
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: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 78

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/10/2021
Number of Days to Update: 85

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-7074
Last EDR Contact: 12/09/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Annually

ASBESTOS: Asbestos Notification Listing Asbestos

Date of Government Version: 09/30/2021
Date Data Arrived at EDR: 10/12/2021
Date Made Active in Reports: 10/28/2021
Number of Days to Update: 16

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-284-7699
Last EDR Contact: 02/01/2022
Next Scheduled EDR Contact: 05/09/2022
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: 08/10/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 85

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
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: 04/01/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 79

Source: Department of Environment, Great Lakes, and Energy
Telephone: 586-753-3754
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 01/07/2021
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4586
Last EDR Contact: 01/12/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/23/2021
Number of Days to Update: 85

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-6610
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
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: 09/16/2021
Date Data Arrived at EDR: 09/21/2021
Date Made Active in Reports: 12/08/2021
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4034
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINANCIAL ASSURANCE 3: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities.

Date of Government Version: 07/16/2021
Date Data Arrived at EDR: 07/29/2021
Date Made Active in Reports: 10/21/2021
Number of Days to Update: 84

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-335-7279
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
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: 03/25/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 82

Source: Department of Community Health
Telephone: 517-335-9699
Last EDR Contact: 11/24/2021
Next Scheduled EDR Contact: 03/14/2022
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: 10/22/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 03/16/2021
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1300
Last EDR Contact: 12/21/2021
Next Scheduled EDR Contact: 04/11/2022
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: 10/18/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/18/2022
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1515
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 77

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-6562
Last EDR Contact: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: 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	Source: Department of Environment, Great Lakes, and Energy
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

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

Date of Government Version: N/A	Source: Department of Environment, Great Lakes, and Energy
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

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

Date of Government Version: N/A	Source: Department of Environment, Great Lakes, and Energy
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CT MANIFEST: Hazardous Waste Manifest Data

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

Date of Government Version: 11/11/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 81

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
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: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/06/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

INDUSTRIAL PROPERTY
2000 SOUTH INDUSTRIAL HIGHWAY
ANN ARBOR, MI 48104

TARGET PROPERTY COORDINATES

Latitude (North): 42.255423 - 42° 15' 19.52"
Longitude (West): 83.736408 - 83° 44' 11.07"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 274271.1
UTM Y (Meters): 4681548.5
Elevation: 828 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 14468119 ANN ARBOR EAST, MI
Version Date: 2019

Southeast Map: 14468191 YPSILANTI WEST, MI
Version Date: 2019

Southwest Map: 14450148 SALINE, MI
Version Date: 2019

Northwest Map: 14468121 ANN ARBOR WEST, MI
Version Date: 2019

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

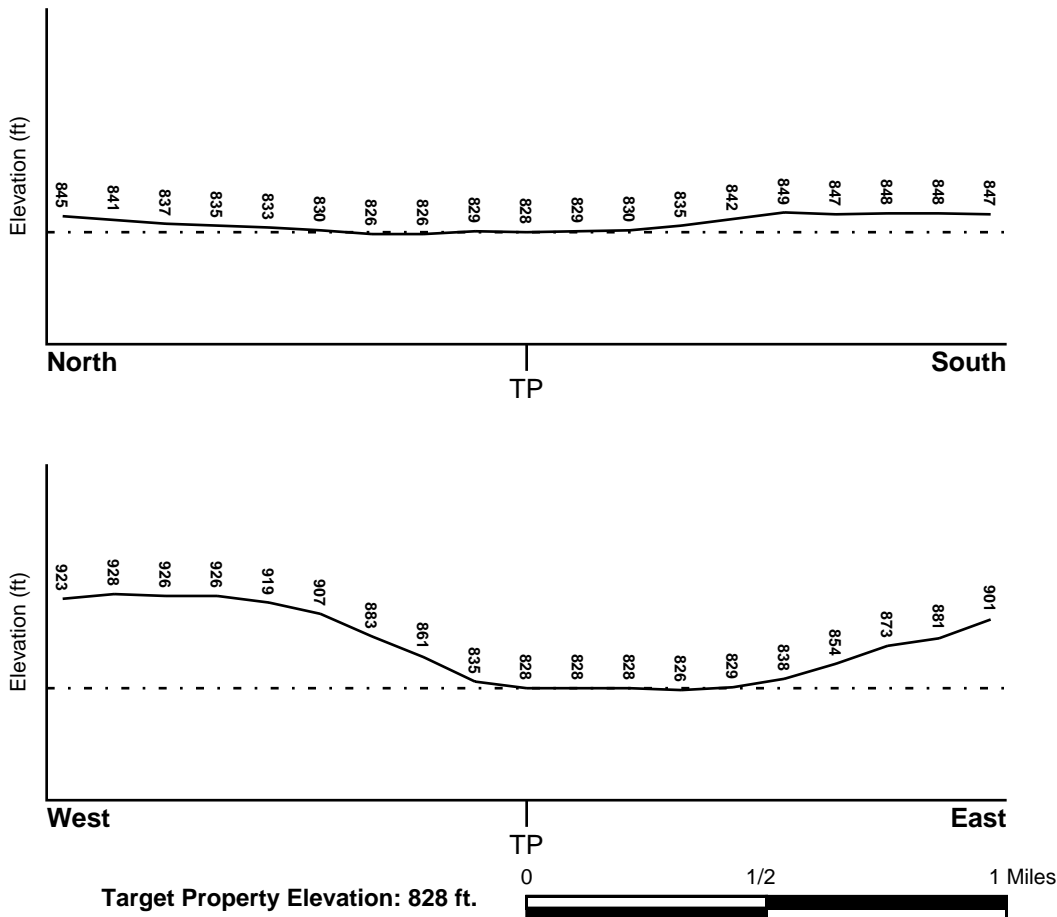
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
26161C0263E	FEMA FIRM Flood data
 <u>Additional Panels in search area:</u>	 <u>FEMA Source Type</u>
26161C0264E	FEMA FIRM Flood data
26161C0244E	FEMA FIRM Flood data
26161C0402E	FEMA FIRM Flood data
26161C0382E	FEMA FIRM Flood data
26161C0401E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
ANN ARBOR EAST	<u>Data Coverage</u>
	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	0 - 1/8 Mile NNE	NE
A2	1/8 - 1/4 Mile SE	Not Reported
3	1/8 - 1/4 Mile WNW	E
A4	1/8 - 1/4 Mile SE	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

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
5	1/4 - 1/2 Mile South	WNW
7	1/4 - 1/2 Mile North	ESE
15	1/2 - 1 Mile NE	SE
20	1/2 - 1 Mile SSE	ENE
25	1/2 - 1 Mile NNW	NE
26	1/2 - 1 Mile NW	VARIES
1G	1/2 - 1 Mile NNW	NE
2G	1/2 - 1 Mile NW	VARIES
3G	1/2 - 1 Mile NE	SE
4G	1/4 - 1/2 Mile North	ESE
5G	1/8 - 1/4 Mile WNW	E
6G	0 - 1/8 Mile NNE	NE
7G	1/8 - 1/4 Mile SE	Not Reported
8G	1/8 - 1/4 Mile SE	Not Reported
9G	1/4 - 1/2 Mile South	WNW
10G	1/2 - 1 Mile SSE	ENE

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Mississippian
Series: Osagean and Kinderhookian Series
Code: M1 (*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: BOYER

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

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

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.30 Min: 5.60
2	7 inches	18 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.30 Min: 5.60
3	18 inches	34 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 5.60
4	34 inches	60 inches	gravelly - sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 20.00	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: loamy sand
muck
loam

Surficial Soil Types: loamy sand
muck
loam

Shallow Soil Types: silty clay loam
sandy loam
clay loam

Deeper Soil Types: sand
sand and gravel
stratified
clay loam
loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

coarse sand
muck

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
6	USGS40000481654	1/4 - 1/2 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

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

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

STATE DATABASE WELL INFORMATION

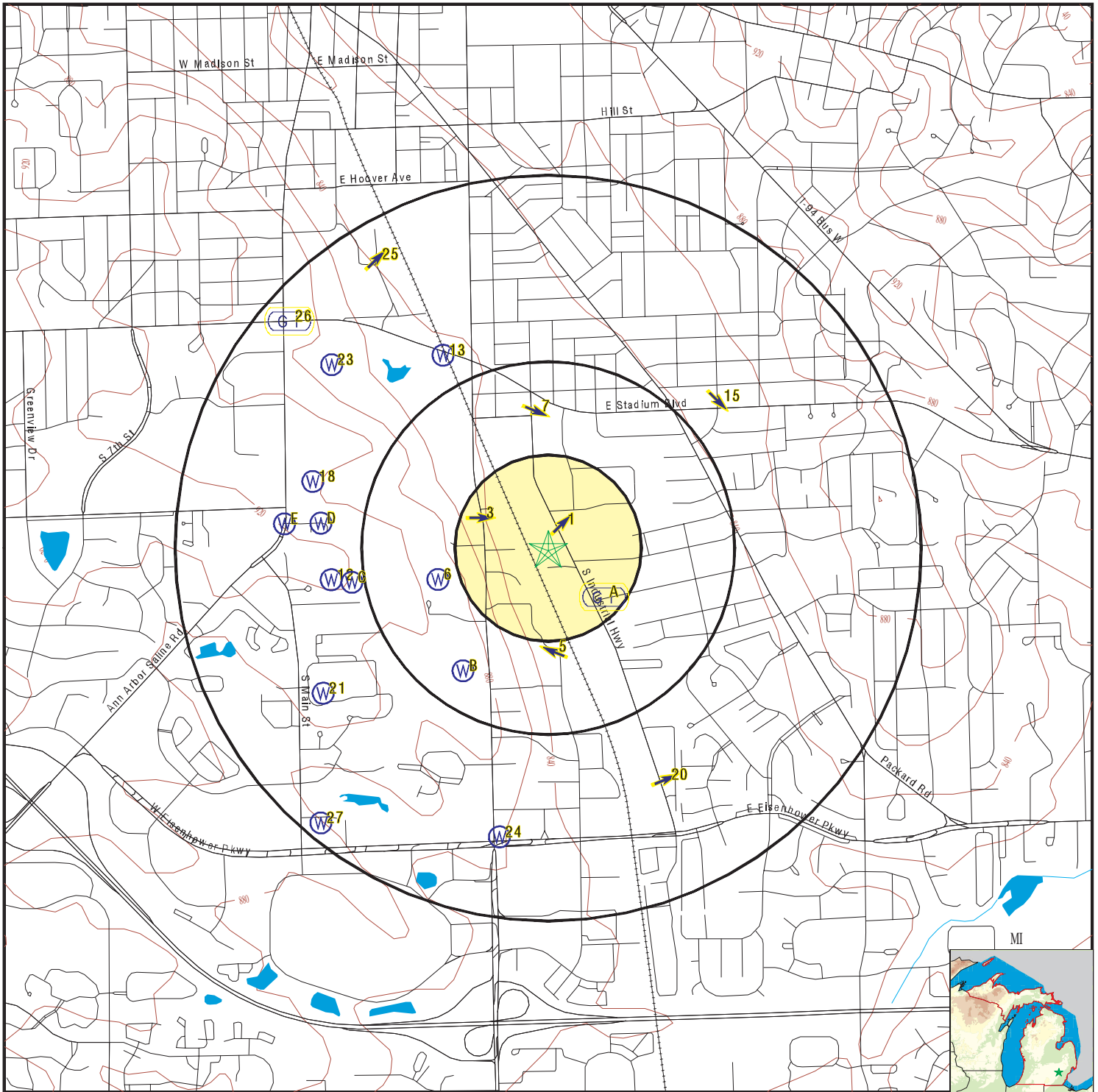
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
B8	MI5000000382517	1/4 - 1/2 Mile SSW
B9	MI5000000382699	1/4 - 1/2 Mile SW
C10	MI5000000369665	1/2 - 1 Mile West
C11	MI5000000369670	1/2 - 1 Mile West
12	MI5000000369671	1/2 - 1 Mile West
13	MI5000000368020	1/2 - 1 Mile NNW
D14	MI5000000376052	1/2 - 1 Mile West
D16	MI5000000369672	1/2 - 1 Mile West
D17	MI5000000369668	1/2 - 1 Mile West
18	MI5000000368019	1/2 - 1 Mile WNW
E19	MI5000000369667	1/2 - 1 Mile West
21	MI5000000369669	1/2 - 1 Mile WSW
E22	MI5000000369664	1/2 - 1 Mile West
23	MI5000000378330	1/2 - 1 Mile NW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
24	MI5000000369663	1/2 - 1 Mile South
27	MI5000000369666	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 6868191.2s



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



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



SITE NAME: Industrial Property
 ADDRESS: 2000 South Industrial Highway
 Ann Arbor MI 48104
 LAT/LONG: 42.255423 / 83.736408

CLIENT: ATC Group Services LLC
 CONTACT: Andrew Temerowski
 INQUIRY #: 6868191.2s
 DATE: February 22, 2022 6:00 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
NNE
0 - 1/8 Mile
Higher

Site ID: 810347
 Groundwater Flow: NE
 Shallowest Water Table Depth: Not Reported
 Deepest Water Table Depth: Not Reported
 Average Water Table Depth: 3.48
 Date: 09/20/1996

AQUIFLOW 45973

A2
SE
1/8 - 1/4 Mile
Lower

Site ID: 810318
 Groundwater Flow: Not Reported
 Shallowest Water Table Depth: Not Reported
 Deepest Water Table Depth: Not Reported
 Average Water Table Depth: 20
 Date: 07/1994

AQUIFLOW 63225

3
WNW
1/8 - 1/4 Mile
Higher

Site ID: 810220
 Groundwater Flow: E
 Shallowest Water Table Depth: Not Reported
 Deepest Water Table Depth: Not Reported
 Average Water Table Depth: 4
 Date: 07/1993

AQUIFLOW 45955

A4
SE
1/8 - 1/4 Mile
Lower

Site ID: 810318
 Groundwater Flow: Not Reported
 Shallowest Water Table Depth: Not Reported
 Deepest Water Table Depth: Not Reported
 Average Water Table Depth: 20
 Date: 07/1994

AQUIFLOW 63224

5
South
1/4 - 1/2 Mile
Higher

Site ID: Not Reported
 Groundwater Flow: WNW
 Shallowest Water Table Depth: 2.5
 Deepest Water Table Depth: 7
 Average Water Table Depth: Not Reported
 Date: 07/08/1998

AQUIFLOW 45895

6
WSW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000481654

Organization ID:	USGS-MI	Organization Name:	USGS Michigan Water Science Center
Monitor Location:	03S06E05AACD01	Type:	Well
Description:	Not Reported	HUC:	04090005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Pleistocene Series	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	88
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

7	Site ID:	810288		
North	Groundwater Flow:	ESE	AQUIFLOW	45925
1/4 - 1/2 Mile	Shallowest Water Table Depth:	Not Reported		
Higher	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	6		
	Date:	10/31/1996		

B8				
SSW			MI WELLS	MI5000000382517
1/4 - 1/2 Mile				
Higher				

Well ID:	81000022305	Permit #:	WEL2015-00433
Owner:	REGENTS OF THE UNIV. OF MI	Well Type:	Irrigation
Well Depth (ft):	166	Well Status:	Plugged/Abandoned
Other Type Info:	Not Reported	Water Supply Serial #:	0
Other Status Info:	Not Reported	Driller ID:	81-2014
Well #:	Not Reported	Other Method Info:	Not Reported
Drill Method:	ROTARY	Casing Type:	PVC Plastic
Construction Date:	20151026	Casing Diameter (in):	5.68
Other Casing Info:	Not Reported	Screen Start Depth (ft):	146
Casing Depth (ft):	146	Static Water Level (ft):	78
Screen End Depth (ft):	166	Test Drawdown Depth:	166
Flowing:	N	Test Water Flow Rate:	99
Test Hours:	2	Well Grouted:	Y
Test Method:	AIR	Elevation (ft):	0
Pump Capacity (gpm):	0	Rock Top (ft):	0
Specific Capacity:	0		

B9				
SW			MI WELLS	MI5000000382699
1/4 - 1/2 Mile				
Higher				

Well ID:	81000022538	Permit #:	WEL2016-00548
Owner:	REGENTS OF THE UNIV. OF MICH.	Well Type:	Irrigation
Well Depth (ft):	186	Well Status:	Active
Other Type Info:	Not Reported	Water Supply Serial #:	0
Other Status Info:	Not Reported	Driller ID:	81-2014
Well #:	Not Reported	Other Method Info:	Not Reported
Drill Method:	ROTARY	Casing Type:	PVC Plastic
Construction Date:	20170516	Casing Diameter (in):	12
Other Casing Info:	Not Reported	Screen Start Depth (ft):	156
Casing Depth (ft):	156	Static Water Level (ft):	78
Screen End Depth (ft):	186	Test Drawdown Depth:	186
Flowing:	N	Test Water Flow Rate:	700
Test Hours:	2	Well Grouted:	Y
Test Method:	AIR	Elevation (ft):	0
Pump Capacity (gpm):	500	Rock Top (ft):	0
Specific Capacity:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C10
West
1/2 - 1 Mile
Higher

MI WELLS MI5000000369665

Well ID:	81000006700	Permit #:	Not Reported
Owner:	MUELLER, DAVE	Well Depth (ft):	250
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-1290	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19820705
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	250
Screen Start Depth (ft):	246	Screen End Depth (ft):	250
Static Water Level (ft):	90	Flowing:	N
Test Drawdown Depth:	91	Test Hours:	2
Test Water Flow Rate:	12	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	920	Specific Capacity:	0
Rock Top (ft):	0		

C11
West
1/2 - 1 Mile
Higher

MI WELLS MI5000000369670

Well ID:	81000006705	Permit #:	Not Reported
Owner:	HOLLAND, MR. & MRS.	Well Depth (ft):	262
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	Not Reported	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19750707
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	0
Screen Start Depth (ft):	258	Screen End Depth (ft):	262
Static Water Level (ft):	108	Flowing:	N
Test Drawdown Depth:	148	Test Hours:	2
Test Water Flow Rate:	20	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	925	Specific Capacity:	0
Rock Top (ft):	0		

12
West
1/2 - 1 Mile
Higher

MI WELLS MI5000000369671

Well ID:	81000006706	Permit #:	Not Reported
Owner:	PETERHANS, C	Well Depth (ft):	185
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-0388	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19700527

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	181
Screen Start Depth (ft):	101	Screen End Depth (ft):	105
Static Water Level (ft):	999.99	Flowing:	N
Test Drawdown Depth:	140	Test Hours:	1
Test Water Flow Rate:	15	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	925	Specific Capacity:	0
Rock Top (ft):	0		

**13
NNW
1/2 - 1 Mile
Higher**

MI WELLS MI5000000368020

Well ID:	81000005046	Permit #:	Not Reported
Owner:	UNIVERSITY OF MICHIGAN	Well Depth (ft):	231
Well Type:	Type II Public	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	2044081	Well #:	001
Driller ID:	81-1290	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19940719
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	0	Casing Depth (ft):	0
Screen Start Depth (ft):	0	Screen End Depth (ft):	0
Static Water Level (ft):	56	Flowing:	N
Test Drawdown Depth:	56	Test Hours:	2
Test Water Flow Rate:	12	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	899	Specific Capacity:	0
Rock Top (ft):	0		

**D14
West
1/2 - 1 Mile
Higher**

MI WELLS MI5000000376052

Well ID:	81000013962	Permit #:	03-00-512
Owner:	ROBERT PESKO	Well Depth (ft):	162
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-2014	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20030730
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	152
Screen Start Depth (ft):	152	Screen End Depth (ft):	162
Static Water Level (ft):	60	Flowing:	N
Test Drawdown Depth:	65	Test Hours:	2
Test Water Flow Rate:	12	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

**15
NE
1/2 - 1 Mile
Higher**

Site ID: 810109
Groundwater Flow: SE
Shallowest Water Table Depth: Not Reported
Deepest Water Table Depth: Not Reported
Average Water Table Depth: 23
Date: 10/18/1995

AQUIFLOW 45971

**D16
West
1/2 - 1 Mile
Higher**

MI WELLS MI500000369672

Well ID:	8100006707	Permit #:	Not Reported
Owner:	PETER COLLINS	Well Depth (ft):	227
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-0388	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19900525
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	223
Screen Start Depth (ft):	223	Screen End Depth (ft):	227
Static Water Level (ft):	60	Flowing:	N
Test Drawdown Depth:	100	Test Hours:	2
Test Water Flow Rate:	20	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	900	Specific Capacity:	0
Rock Top (ft):	0		

**D17
West
1/2 - 1 Mile
Higher**

MI WELLS MI500000369668

Well ID:	8100006703	Permit #:	Not Reported
Owner:	PESKO, ROBERT	Well Depth (ft):	152
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-0524	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19831123
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	152
Screen Start Depth (ft):	147	Screen End Depth (ft):	152
Static Water Level (ft):	70	Flowing:	N
Test Drawdown Depth:	120	Test Hours:	4
Test Water Flow Rate:	10	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	910	Specific Capacity:	0
Rock Top (ft):	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

18
WNW
1/2 - 1 Mile
Higher

MI WELLS MI5000000368019

Well ID:	81000005045	Permit #:	Not Reported
Owner:	UNIVERSITY OF MICHIGAN	Well Depth (ft):	94
Well Type:	Type II Public	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	2043981	Well #:	001
Driller ID:	81-1290	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19940718
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	94
Screen Start Depth (ft):	86	Screen End Depth (ft):	94
Static Water Level (ft):	70	Flowing:	N
Test Drawdown Depth:	82	Test Hours:	2
Test Water Flow Rate:	20	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	899	Specific Capacity:	0
Rock Top (ft):	0		

E19
West
1/2 - 1 Mile
Higher

MI WELLS MI5000000369667

Well ID:	81000006702	Permit #:	Not Reported
Owner:	WELLMAN, MAYNARD	Well Depth (ft):	256
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-1290	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19800111
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	256
Screen Start Depth (ft):	248	Screen End Depth (ft):	256
Static Water Level (ft):	85	Flowing:	N
Test Drawdown Depth:	90	Test Hours:	2
Test Water Flow Rate:	12	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	920	Specific Capacity:	0
Rock Top (ft):	0		

20
SSE
1/2 - 1 Mile
Higher

AQUIFLOW 39415

Site ID:	810128
Groundwater Flow:	ENE
Shallowest Water Table Depth:	Not Reported
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	5
Date:	09/30/1996

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

21
WSW
1/2 - 1 Mile
Higher

MI WELLS MI5000000369669

Well ID:	81000006704	Permit #:	Not Reported
Owner:	WARD HAROLD	Well Depth (ft):	100
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-0036	Drill Method:	Auger/Bored
Other Method Info:	Not Reported	Construction Date:	19740820
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	100
Screen Start Depth (ft):	96	Screen End Depth (ft):	100
Static Water Level (ft):	60	Flowing:	N
Test Drawdown Depth:	61	Test Hours:	2
Test Water Flow Rate:	10	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	912	Specific Capacity:	0
Rock Top (ft):	0		

E22
West
1/2 - 1 Mile
Higher

MI WELLS MI5000000369664

Well ID:	81000006699	Permit #:	Not Reported
Owner:	MANUFACTURERS BANK	Well Depth (ft):	256
Well Type:	Other	Other Type Info:	Commercial
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-0388	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19811216
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	252
Screen Start Depth (ft):	252	Screen End Depth (ft):	256
Static Water Level (ft):	60	Flowing:	N
Test Drawdown Depth:	150	Test Hours:	2
Test Water Flow Rate:	25	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	920	Specific Capacity:	0
Rock Top (ft):	0		

23
NW
1/2 - 1 Mile
Higher

MI WELLS MI5000000378330

Well ID:	81000017070	Permit #:	WEL2006-00143
Owner:	Grammatico	Well Depth (ft):	90
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Plugged/Abandoned	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	78-1607	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20060511

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Type:	Other	Other Casing Info:	Not Reported
Casing Diameter (in):	0	Casing Depth (ft):	0
Screen Start Depth (ft):	0	Screen End Depth (ft):	0
Static Water Level (ft):	0	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	Not Reported
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	73		

24
South
1/2 - 1 Mile
Higher

MI WELLS MI500000369663

Well ID:	8100006698	Permit #:	Not Reported
Owner:	SHELL OIL CO	Well Depth (ft):	83
Well Type:	Other	Other Type Info:	Public Well Type Unknown
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	81-0388	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19680201
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	83
Screen Start Depth (ft):	79	Screen End Depth (ft):	80
Static Water Level (ft):	35	Flowing:	N
Test Drawdown Depth:	45	Test Hours:	3
Test Water Flow Rate:	12	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	860	Specific Capacity:	0
Rock Top (ft):	0		

25
NNW
1/2 - 1 Mile
Higher

AQUIFLOW 45907

Site ID:	810159
Groundwater Flow:	NE
Shallowest Water Table Depth:	Not Reported
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	7
Date:	09/30/1996

26
NW
1/2 - 1 Mile
Higher

AQUIFLOW 63203

Site ID:	810343
Groundwater Flow:	VARIABLE
Shallowest Water Table Depth:	3
Deepest Water Table Depth:	7
Average Water Table Depth:	Not Reported
Date:	03/18/1997

27
SW
1/2 - 1 Mile
Higher

MI WELLS MI500000369666

Well ID:	8100006701	Permit #:	Not Reported
Owner:	BRINT, JIM	Well Depth (ft):	175
Well Type:	Irrigation	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Driller ID:	81-1290	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19850529
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	0	Casing Depth (ft):	0
Screen Start Depth (ft):	163	Screen End Depth (ft):	175
Static Water Level (ft):	80	Flowing:	N
Test Drawdown Depth:	80	Test Hours:	2
Test Water Flow Rate:	120	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	885	Specific Capacity:	0
Rock Top (ft):	0		

1G NNW 1/2 - 1 Mile Lower	Site ID:	810159		
	Groundwater Flow:	NE	AQUIFLOW	45907
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	7		
	Date:	09/30/1996		

2G NW 1/2 - 1 Mile Lower	Site ID:	810343		
	Groundwater Flow:	VARIABLE	AQUIFLOW	63203
	Shallowest Water Table Depth:	3		
	Deepest Water Table Depth:	7		
	Average Water Table Depth:	Not Reported		
	Date:	03/18/1997		

3G NE 1/2 - 1 Mile Lower	Site ID:	810109		
	Groundwater Flow:	SE	AQUIFLOW	45971
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	23		
	Date:	10/18/1995		

4G North 1/4 - 1/2 Mile Lower	Site ID:	810288		
	Groundwater Flow:	ESE	AQUIFLOW	45925
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	6		
	Date:	10/31/1996		

5G WNW 1/8 - 1/4 Mile Lower	Site ID:	810220		
	Groundwater Flow:	E	AQUIFLOW	45955
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	4		
	Date:	07/1993		

6G NNE 0 - 1/8 Mile Lower	Site ID:	810347		
	Groundwater Flow:	NE	AQUIFLOW	45973
	Shallowest Water Table Depth:	Not Reported		
	Deepest Water Table Depth:	Not Reported		
	Average Water Table Depth:	3.48		
	Date:	09/20/1996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

7G SE 1/8 - 1/4 Mile Lower	Site ID: 810318 Groundwater Flow: Not Reported Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: 20 Date: 07/1994	AQUIFLOW	63224
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8G SE 1/8 - 1/4 Mile Lower	Site ID: 810318 Groundwater Flow: Not Reported Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: 20 Date: 07/1994	AQUIFLOW	63225
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9G South 1/4 - 1/2 Mile Lower	Site ID: Not Reported Groundwater Flow: WNW Shallowest Water Table Depth: 2.5 Deepest Water Table Depth: 7 Average Water Table Depth: Not Reported Date: 07/08/1998	AQUIFLOW	45895
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10G SSE 1/2 - 1 Mile Lower	Site ID: 810128 Groundwater Flow: ENE Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: 5 Date: 09/30/1996	AQUIFLOW	39415
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Zipcode	Test Date	LT Sign	Result
48104	4/10/2006	<	0.3
48104	2/14/2008	<	0.3
48104	11/24/1997	<	0.3
48104	12/23/1995	<	0.3
48104	12/23/1995	<	0.3
48104	2/13/2006	<	0.3
48104	2/13/2006	<	0.3
48104	2/13/2006	<	0.3
48104	2/13/2006	<	0.3
48104	1/12/2004	<	0.3
48104	3/11/1996	<	0.3
48104	1/18/2007	<	0.3
48104	3/11/2003	<	0.3
48104	4/5/1995		0.5
48104	12/23/1995		0.4
48104	1/11/2002	<	0.3
48104	1/25/2002	<	0.3
48104	3/20/2006	<	0.3
48104	3/30/2002	<	0.3
48104	7/7/1997	<	0.3
48104	8/11/1997	<	0.3
48104	12/23/1995		0.8
48104	12/23/1995		0.8
48104	4/8/1997		0.8
48104	1/24/2009		1.0
48104	9/19/2009		1.0
48104	5/19/1997		0.9
48104	1/20/2003		0.7
48104	9/25/2001		0.8
48104	7/26/2005		0.8
48104	12/5/1997		0.9
48104	11/4/2005		0.7
48104	2/7/2004		0.8
48104	2/6/2006		0.7
48104	11/4/2005		0.6
48104	3/3/2006		0.8
48104	3/31/2007		0.7
48104	1/29/2005		0.9
48104	9/15/2006		0.8
48104	11/21/2007		0.7
48104	8/5/2004		0.9
48104	1/22/2005		0.9
48104	7/27/2006		0.9
48104	2/17/2006		0.9
48104	6/25/2007		0.8
48104	2/17/1995		0.6
48104			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	6/1/1999	0.8
48104	5/8/2006	0.9
48104	9/19/2009	0.6
48104	9/21/2009	0.6
48104	4/2/2009	0.7
48104	9/12/2009	0.6
48104	4/2/2009	0.8
48104	4/22/1995	0.9
48104	8/19/1996	0.5
48104	12/23/1995	0.5
48104	8/22/1996	0.7
48104	4/14/1997	0.7
48104	3/11/1996	0.6
48104	8/29/2001	0.6
48104	4/28/1997	1.5
48104	8/20/1996	1.5
48104	8/17/1996	1.5
48104	2/9/2006	1.6
48104	4/27/2001	1.6
48104	3/23/2006	1.5
48104	2/10/2006	1.5
48104	2/21/2006	1.5
48104	2/10/2006	1.5
48104	2/6/2006	1.5
48104	5/7/2009	1.5
48104	2/28/1995	1.5
48104	4/5/2003	1.5
48104	4/19/2003	1.4
48104	4/22/2003	1.4
48104	3/20/2009	1.5
48104	4/2/2009	1.5
48104	11/19/2001	1.4
48104	4/14/1997	1.4
48104	2/15/1999	1.4
48104	1/15/1997	1.4
48104	4/27/2000	1.4
48104	5/29/1999	1.4
48104	12/29/2006	1.4
48104	3/9/2006	1.4
48104	3/6/2006	1.4
48104	3/17/2008	1.4
48104	12/2/2006	1.3
48104	2/17/2006	1.3
48104	3/28/2006	1.3
48104	2/13/2006	1.3
48104	11/13/2007	1.3
48104	11/13/2007	1.3
48104	4/18/1997	1.3
48104	2/16/1999	1.3
48104	1/24/2002	1.3
48104	2/28/2005	1.3
48104	2/23/2009	1.3
48104	6/26/1997	1.2
48104	2/24/2003	1.2
48104	3/15/2001	1.2
48104	9/25/2001	1.2
48104		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	3/4/1997	1.1
48104	6/30/2004	1.1
48104	9/25/2001	1.1
48104	3/15/2001	1.1
48104	9/22/2000	1.1
48104	4/27/2001	1.1
48104	3/20/2004	1.1
48104	4/15/1997	1.0
48104	9/19/2009	1.1
48104	1/23/2007	1.0
48104	2/13/2006	1.0
48104	7/27/2006	1.0
48104	10/25/2007	1.0
48104	11/1/1999	18.4
48104	2/9/2009	2.1
48104	11/2/2009	2.1
48104	10/29/2009	2.1
48104	4/1/1998	2.0
48104	4/4/2009	4.5
48104	10/5/1998	4.4
48104	3/25/1996	4.4
48104	2/7/2006	4.3
48104	4/24/2008	4.3
48104	11/1/1999	4.2
48104	1/24/2009	4.2
48104	11/19/2001	4.0
48104	8/12/2003	4.4
48104	6/11/2001	4.3
48104	10/17/1995	4.1
48104	4/14/1997	4.1
48104	11/13/1995	4.1
48104	10/5/1998	4.1
48104	6/7/2008	4.0
48104	4/2/1999	4.0
48104	4/6/1999	4.6
48104	2/13/2006	4.4
48104	8/30/2007	4.4
48104	7/1/2002	4.1
48104	8/25/1994	4.6
48104	8/27/2009	4.6
48104	1/15/1999	4.5
48104	11/17/1997	4.5
48104	6/16/2003	4.2
48104	3/13/2004	4.2
48104	5/7/2005	4.5
48104	3/27/1999	4.3
48104	11/23/1998	4.3
48104	8/6/2003	4.3
48104	2/9/2009	4.1
48104	2/16/2007	4.5
48104	10/29/2007	4.5
48104	4/27/2000	4.5
48104	1/20/2005	1.9
48104	4/20/2006	1.9
48104	3/7/2006	1.9
48104	12/11/1996	1.9
48104		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

48104	5/26/1998		1.9
48104	3/1/1999		1.9
48104	1/25/2003		1.9
48104	3/29/2003		1.9
48104	11/9/2002		1.9
48104	1/25/2002		1.8
48104	2/9/2007		1.9
48104	2/13/2006		1.9
48104	3/13/2007		1.9
48104	6/28/2000		1.9
48104	1/17/2009		1.9
48104	2/11/2009		1.9
48104	5/9/2005		1.8
48104	3/27/2006		1.8
48104	4/5/1995		1.7
48104	2/6/1996		1.7
48104	10/23/1995		1.7
48104	2/10/2003		1.7
48104	2/10/2007		1.7
48104	2/10/2006		1.7
48104	9/25/2001		1.6
48104	4/21/2003		1.6
48104	10/30/2002		1.6
48104	3/2/2009	<	0.3
48104	2/9/2009		7.7
48104	5/1/2009		7.3
48104	3/25/2009		7.3
48104	5/31/1997		7.2
48104	1/18/2006		7.2
48104	5/12/1999		6.6
48104	2/3/2007		7.5
48104	6/29/1999		7.2
48104	3/25/1997		7.1
48104	12/9/2009		6.8
48104	8/27/1997		6.5
48104	2/2/2006		6.5
48104	3/13/2006		6.5
48104	4/28/1997		6.4
48104	2/9/2007		6.4
48104	5/2/2002		6.3
48104	3/17/2008		6.3
48104	2/6/2009		6.3
48104	1/29/2010		6.3
48104	11/24/2003		6.2
48104	1/28/2005		6.2
48104	6/27/2005		6.2
48104	7/18/2001		6.2
48104	4/6/1999		6.2
48104	2/5/2009		6.2
48104	1/27/2009		6.2
48104	10/21/1996		6.1
48104	10/2/2001		6.1
48104	5/31/2003		6.1
48104	6/3/2006		6.1
48104	1/19/2008		6.1
48104	4/25/1997		6.0
48104			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	3/15/2005	5.2
48104	1/11/2006	5.2
48104	9/21/2007	5.2
48104	11/4/2005	4.6
48104	4/13/2004	4.6
48104	1/23/2006	4.6
48104	5/28/2001	6.0
48104	5/7/1999	6.0
48104	2/7/2009	5.6
48104	2/13/2006	5.5
48104	1/30/2009	5.2
48104	2/9/2009	5.2
48104	11/13/2001	5.9
48104	6/9/2007	5.5
48104	4/23/2007	5.5
48104	2/13/1995	5.5
48104	3/18/1996	5.1
48104	10/20/2000	4.8
48104	4/7/2009	4.8
48104	6/23/1995	4.7
48104	1/11/2003	4.7
48104	5/18/2007	5.9
48104	1/31/2009	5.9
48104	2/15/1999	5.4
48104	3/20/2006	5.1
48104	2/14/2006	4.7
48104	11/27/2006	4.7
48104	10/10/1997	5.8
48104	12/10/2001	5.8
48104	10/2/2001	5.8
48104	2/7/2003	5.8
48104	6/18/2003	5.8
48104	2/18/2005	5.8
48104	1/30/2006	5.4
48104	5/18/2007	5.4
48104	2/15/2008	5.4
48104	9/21/2007	5.4
48104	6/11/2009	5.1
48104	11/9/2001	5.0
48104	9/25/1998	4.8
48104	3/29/2007	5.8
48104	3/31/2008	5.8
48104	2/26/2009	5.8
48104	7/21/2001	5.4
48104	8/14/2009	5.4
48104	2/13/2006	5.0
48104	1/26/2009	4.7
48104	2/27/2006	5.7
48104	5/19/2003	5.3
48104	2/13/2006	5.3
48104	5/8/2006	5.3
48104	1/17/1995	5.0
48104	2/12/2009	5.0
48104	3/17/2000	5.7
48104	1/4/2008	5.3
48104	2/22/1997	4.9
48104		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	9/21/2007	4.8
48104	11/20/2000	4.8
48104	5/19/1997	5.6
48104	4/7/1997	5.6
48104	10/29/2001	5.6
48104	6/9/1997	5.2
48104	3/24/2007	7.9
48104	10/11/2008	7.5
48104	10/6/1999	7.5
48104	1/12/2009	7.1
48104	2/8/1999	7.0
48104	11/11/1996	6.7
48104	2/14/2008	6.7
48104	6/19/1997	7.8
48104	6/9/1997	7.8
48104	9/25/2001	7.8
48104	9/16/2005	7.4
48104	4/27/1999	7.0
48104	10/20/2000	6.7
48104	12/21/2009	6.7
48104	4/29/2004	6.6
48104	10/2/2001	7.3
48104	2/23/2002	6.9
48104	10/2/2001	6.9
48104	11/8/2001	2.0
48104	1/25/2002	2.0
48104	5/16/2000	44.9
48104	11/4/2005	23.4
48104	4/25/2006	23.1
48104	3/16/2009	22.9
48104	5/21/2001	22.8
48104	3/16/2009	22.8
48104	10/31/2000	16.9
48104	3/20/1995	16.5
48104	2/10/2006	16.4
48104	3/6/2006	15.9
48104	10/30/1999	14.1
48104	5/14/1999	14.1
48104	9/23/2008	13.8
48104	2/17/2009	13.8
48104	5/2/1994	14.7
48104	11/5/2001	14.4
48104	2/10/2003	13.1
48104	4/14/2008	13.0
48104	9/23/2008	12.9
48104	9/2/1997	12.8
48104	7/31/2009	12.7
48104	2/11/1999	12.6
48104	7/21/2001	12.6
48104	2/10/2003	12.5
48104	11/17/2000	9.0
48104	11/11/1996	8.9
48104	6/13/2009	12.3
48104	8/3/2007	12.2
48104	11/2/2000	12.2
48104	2/10/2003	10.9
48104		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	8/25/1994	10.1
48104	5/24/1999	8.1
48104	4/15/1999	8.1
48104	1/24/2009	8.1
48104	11/27/2009	8.1
48104	3/9/2007	8.0
48104	2/12/2003	10.8
48104	7/10/2004	10.8
48104	10/30/1997	9.9
48104	12/4/2009	8.8
48104	3/15/2003	11.6
48104	11/7/2002	10.7
48104	4/20/2009	10.7
48104	1/12/1998	10.6
48104	7/20/2002	10.6
48104	3/20/2006	10.6
48104	4/22/2000	10.6
48104	11/13/2006	9.8
48104	4/20/2009	9.8
48104	12/5/2009	8.5
48104	8/16/1997	8.4
48104	10/27/2001	8.4
48104	2/7/2003	11.5
48104	10/17/2007	11.5
48104	12/8/2003	11.4
48104	10/13/2004	10.5
48104	5/14/1999	10.5
48104	3/13/2009	10.5
48104	11/18/2000	10.4
48104	5/22/1998	8.3
48104	7/19/2006	11.3
48104	12/8/2003	11.2
48104	2/10/2003	10.3
48104	11/13/2004	10.3
48104	5/14/1999	9.6
48104	11/9/2009	9.5
48104	1/12/2009	8.7
48104	3/29/2003	2.1
48104	1/15/2004	2.1
48104	7/21/2004	2.0
48104	11/12/1999	9.4
48104	1/12/2009	9.4
48104	2/2/2006	2.1
48104	2/8/2006	2.0
48104	2/6/2009	9.3
48104	2/10/2003	9.1
48104	3/30/2000	8.3
48104	9/28/2000	9.1
48104	1/19/2010	9.1
48104	10/22/2004	9.0
48104	1/31/2005	9.0
48104	11/23/2007	2.1
48104	5/18/1995	2.0
48104	10/21/1994	2.0
48104	5/10/2005	40.9
48104	5/26/2000	40.3
48104		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	10/25/2006	34.8
48104	4/12/2006	21.5
48104	4/3/2004	20.7
48104	10/30/1999	20.7
48104	10/21/2000	20.6
48104	3/6/2006	20.5
48104	11/26/1994	2.1
48104	3/7/1995	2.1
48104	7/28/1998	31.3
48104	1/27/2009	2.1
48104	2/24/2009	2.0
48104	8/29/2002	27.7
48104	4/6/2009	27.4
48104	4/6/2009	26.3
48104	4/4/2009	0.9
48104	4/13/2006	2.9
48104	5/13/2008	2.9
48104	2/12/2001	2.8
48104	10/16/2000	2.8
48104	12/4/1998	2.6
48104	1/12/2009	2.6
48104	6/2/1999	2.9
48104	3/20/2006	2.5
48104	2/13/2006	2.5
48104	1/17/1996	2.5
48104	1/25/2002	2.5
48104	4/24/2006	2.5
48104	2/9/2007	2.5
48104	4/22/1995	2.5
48104	11/9/2009	2.5
48104	9/25/2009	2.5
48104	5/4/2004	2.4
48104	9/13/2004	2.4
48104	2/27/2007	2.4
48104	12/13/2005	2.4
48104	5/11/2006	2.4
48104	4/28/2007	2.4
48104	1/29/2008	2.4
48104	2/6/1995	2.4
48104	2/10/2006	2.2
48104	11/2/2009	2.4
48104	9/16/1999	2.3
48104	5/31/1999	2.3
48104	2/4/2008	2.2
48104	2/10/2001	2.2
48104	5/17/1999	2.2
48104	5/19/1997	2.2
48104	2/8/1999	2.2
48104	3/25/1999	2.2
48104	1/31/2002	2.3
48104	11/1/2001	2.3
48104	3/26/2004	2.3
48104	3/24/1999	2.2
48104	2/5/2009	2.2
48104	1/13/2004	2.3
48104	1/7/2002	2.2
48104		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	4/13/1998		2.1
48104	2/13/2006		2.3
48104	7/15/2004		2.2
48104	3/11/2006		3.0
48104	5/1/2006		3.0
48104	2/13/2006		3.0
48104	2/22/2007		3.0
48104	2/12/2009		2.9
48104	1/30/2009		2.9
48104	2/14/2002		2.7
48104	12/16/1998		2.8
48104	9/13/2001		2.8
48104	2/5/2003		2.7
48104	11/9/2009		3.0
48104	2/21/2009		3.0
48104	2/8/2006		2.7
48104	4/3/2006		2.7
48104	2/13/2006		2.6
48104	5/15/2006		2.6
48104	3/7/1996		2.9
48104	3/5/2008		2.6
48104	5/22/2004		2.9
48104	5/20/2002		2.9
48104	6/20/2006		2.8
48104	1/15/2000		2.7
48104	11/4/2005		2.9
48104	5/22/2009		2.8
48104	1/23/2009		2.7
48104	1/23/2009		2.7
48104	7/23/2009		2.7
48104	3/6/2009		2.7
48104	4/13/2006		3.8
48104	10/27/1994		3.6
48104	1/12/2000		3.6
48104	4/4/2001		3.6
48104	3/21/2009		3.6
48104	4/13/2009		3.6
48104	2/6/2009		3.6
48104	3/16/2009		3.6
48104	5/26/2003		3.5
48104	2/7/2005		3.5
48104	1/23/2009		3.5
48104	8/3/2009		3.5
48104	2/1/2006		3.5
48104	3/22/2001		3.5
48104	2/22/2000	<	0.3
48104	3/30/2009		3.4
48104	8/3/2009		3.4
48104	9/3/1996		3.2
48104	9/25/2001		3.2
48104	10/4/2003		3.2
48104	5/22/2006		3.2
48104	12/19/2007		3.1
48104	3/2/2007		3.1
48104	5/22/1999		3.1
48104	1/5/2009		3.4
48104			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

48104	6/2/2003		3.3
48104	1/15/2003		3.3
48104	10/21/2008		3.2
48104	5/14/1999	<	0.3
48104	3/6/2006		3.3
48104	3/25/2006		3.3
48104	3/7/2006		3.3
48104	9/23/1999		3.2
48104	6/29/1999		3.2
48104	4/16/1997		3.0
48104	2/26/1996		3.0
48104	1/23/2009		3.2
48104	6/12/2009		3.2
48104	7/5/2003		3.0
48104	3/7/2007		3.3
48104	1/7/2008		3.3
48104	4/30/2007		3.3
48104	9/19/2009	<	0.3
48104	6/30/1997		3.9
48104	6/7/1996		3.7
48104	3/15/1999		3.7
48104	3/6/2003		3.1
48104	11/13/2004		3.9
48104	1/28/2003		3.7
48104	7/12/2004		3.7
48104	1/24/2004		3.7
48104	12/28/2009	<	0.3
48104	2/6/2006		3.9
48104	3/30/2006		3.7
48104	5/11/1999		3.3
48104	1/21/2005		3.1
48104	12/14/1998		3.8
48104	1/23/2008		3.4
48104	2/13/1995		3.4
48104	1/18/1999		3.6
48104	6/2/2003		3.6
48104	2/12/2009		3.3

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: 48104

Number of sites tested: 10

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	3.133 pCi/L	67%	33%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	8.500 pCi/L	30%	60%	10%

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 Wellogis, the Michigan Department of Environmental Quality Statewide Groundwater Database (SGWD). Wellogis contains approximately 425,000 water well records found within the State of Michigan, and although it represents the best available data, it cannot be considered a complete database of all the wells or well records in existence. Locations of verified municipal and private water well sites compiled from Michigan Department of Public Health, Water Well and Pump Records. Available in the following MI counties: Calhoun, Eaton, Genesee, Ingham, Jackson, Kalamazoo, Kent, Midland, Muskegon, Oakland, Ottawa, Saginaw, St. Clair, Washtenaw.

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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APPENDIX F
AERIAL PHOTOGRAPHS



Industrial Property

2000 South Industrial Highway

Ann Arbor, MI 48104

Inquiry Number: 6868191.5

February 22, 2022

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

02/22/22

Site Name:

Industrial Property
2000 South Industrial Highway
Ann Arbor, MI 48104
EDR Inquiry # 6868191.5

Client Name:

ATC Group Services LLC
46555 Humboldt Drive
Novi, MI 48377
Contact: Andrew Temerowski



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:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
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
2000	1"=500'	Acquisition Date: April 25, 2000	USGS/DOQQ
1993	1"=500'	Flight Date: April 23, 1993	USDA
1987	1"=500'	Flight Date: June 05, 1987	USDA
1983	1"=500'	Flight Date: May 05, 1983	USDA
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
1962	1"=500'	Flight Date: April 18, 1962	DTE
1955	1"=500'	Flight Date: September 12, 1955	USDA
1949	1"=500'	Flight Date: April 29, 1949	DTE
1940	1"=500'	Flight Date: October 08, 1940	USDA
1937	1"=500'	Flight Date: July 05, 1937	USDA

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INQUIRY #: 6868191.5

YEAR: 2016

— = 500'



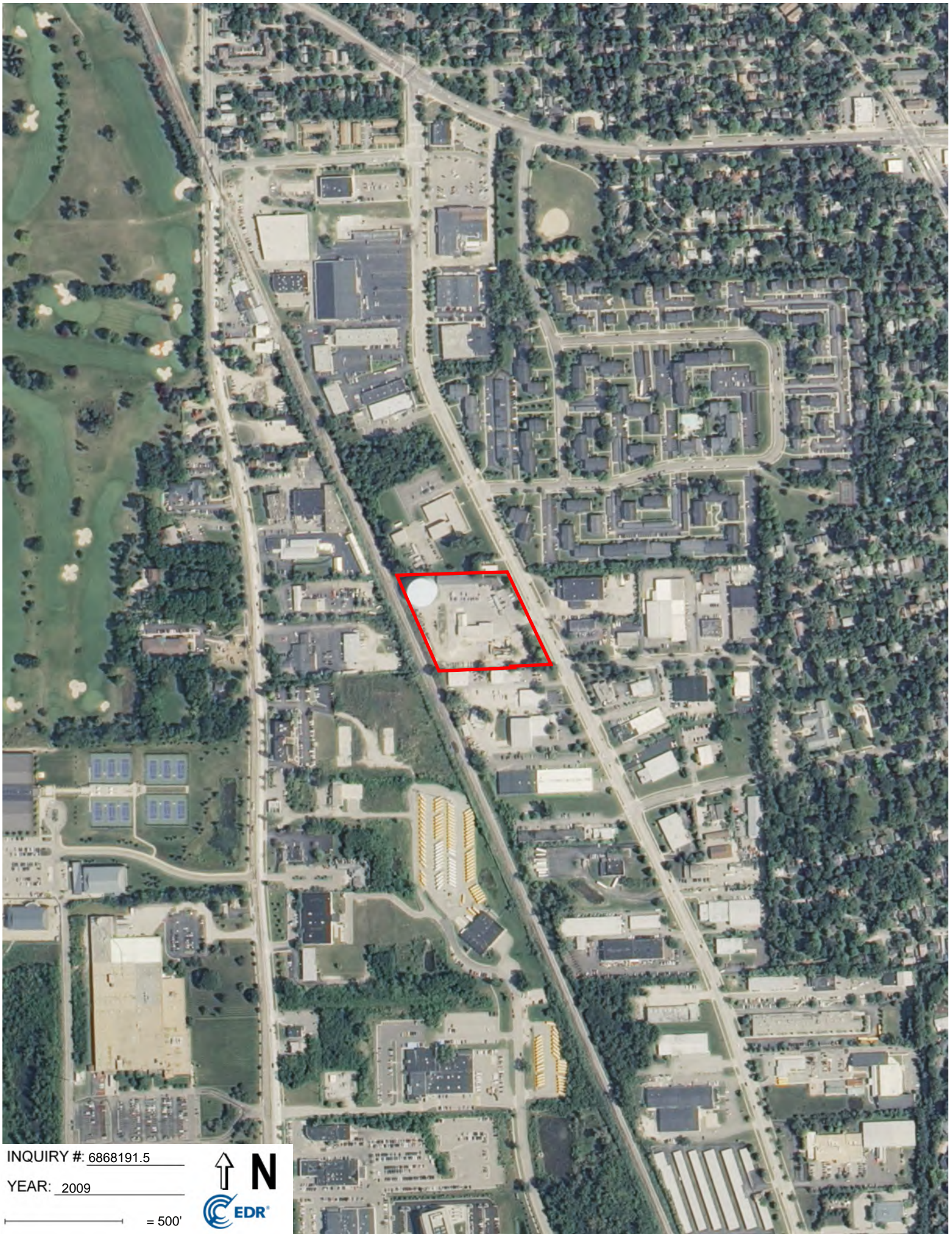


INQUIRY # 6868191.5

YEAR: 2012

— = 500'





INQUIRY #: 6868191.5

YEAR: 2009

— = 500'





INQUIRY #: 6868191.5

YEAR: 2006

— = 500'



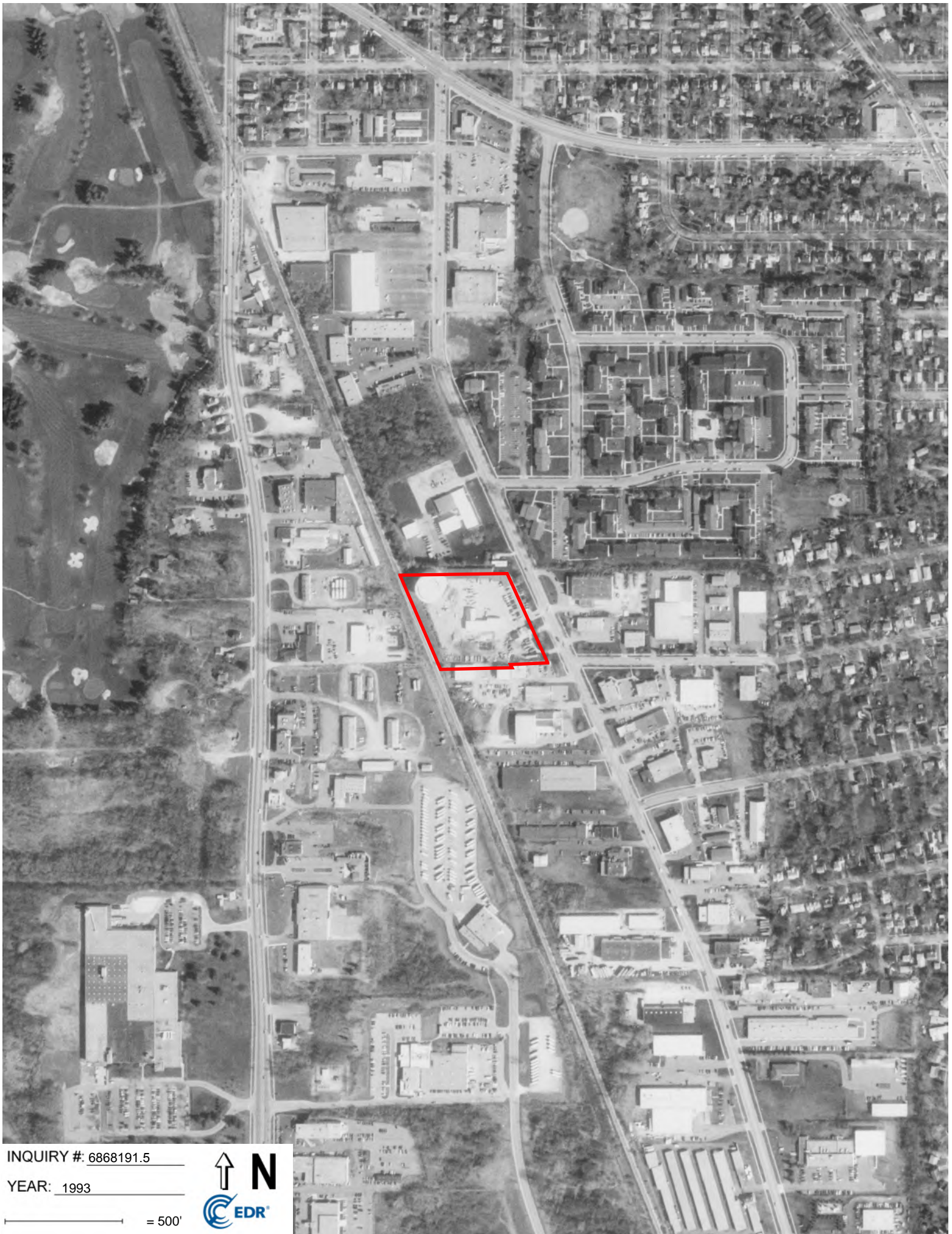


INQUIRY #: 6868191.5

YEAR: 2000

— = 500'





INQUIRY #: 6868191.5

YEAR: 1993

— = 500'





INQUIRY #: 6868191.5

YEAR: 1987

— = 500'





INQUIRY #: 6868191.5

YEAR: 1983

— = 500'



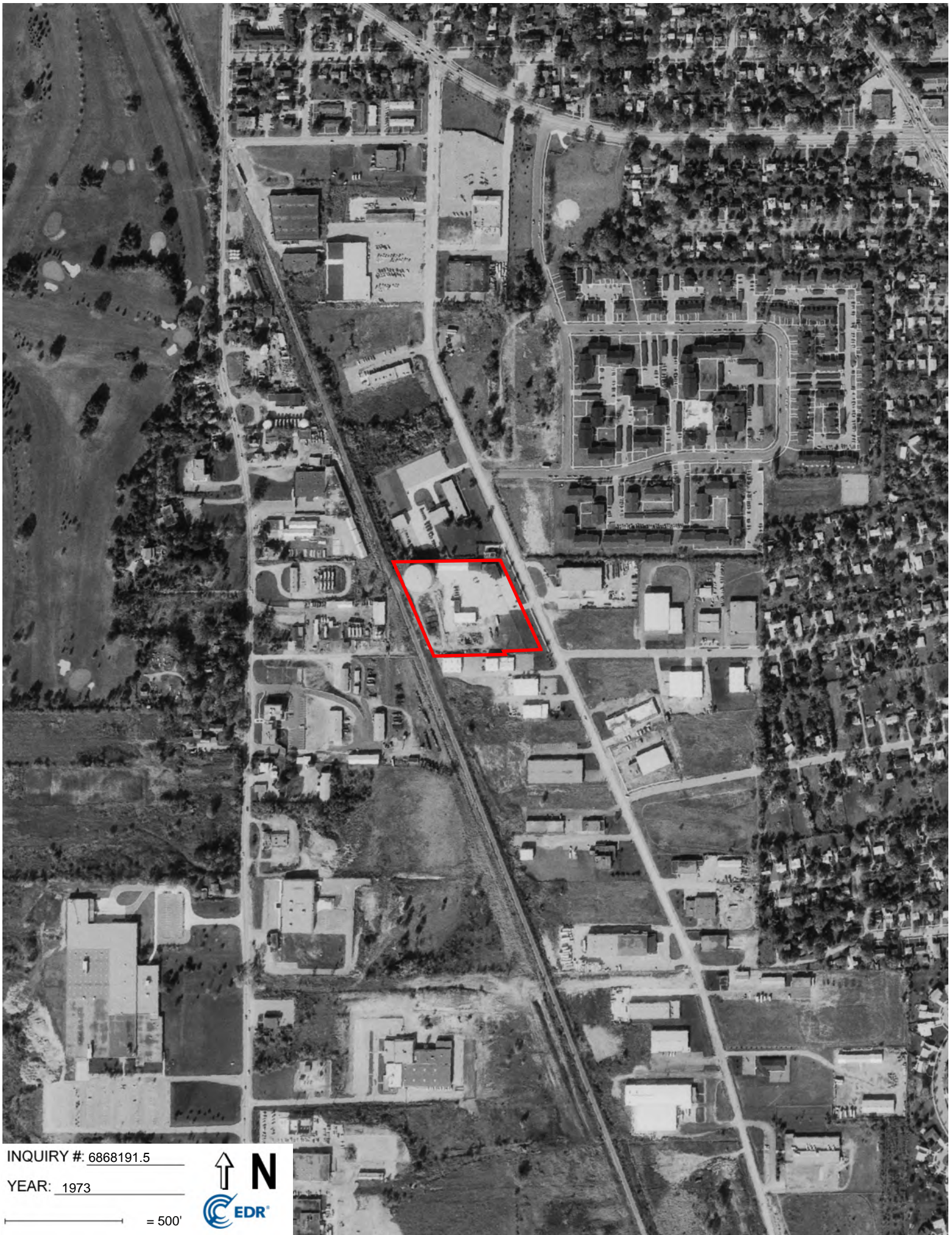


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YEAR: 1978

— = 500'





INQUIRY # 6868191.5

YEAR: 1973

— = 500'



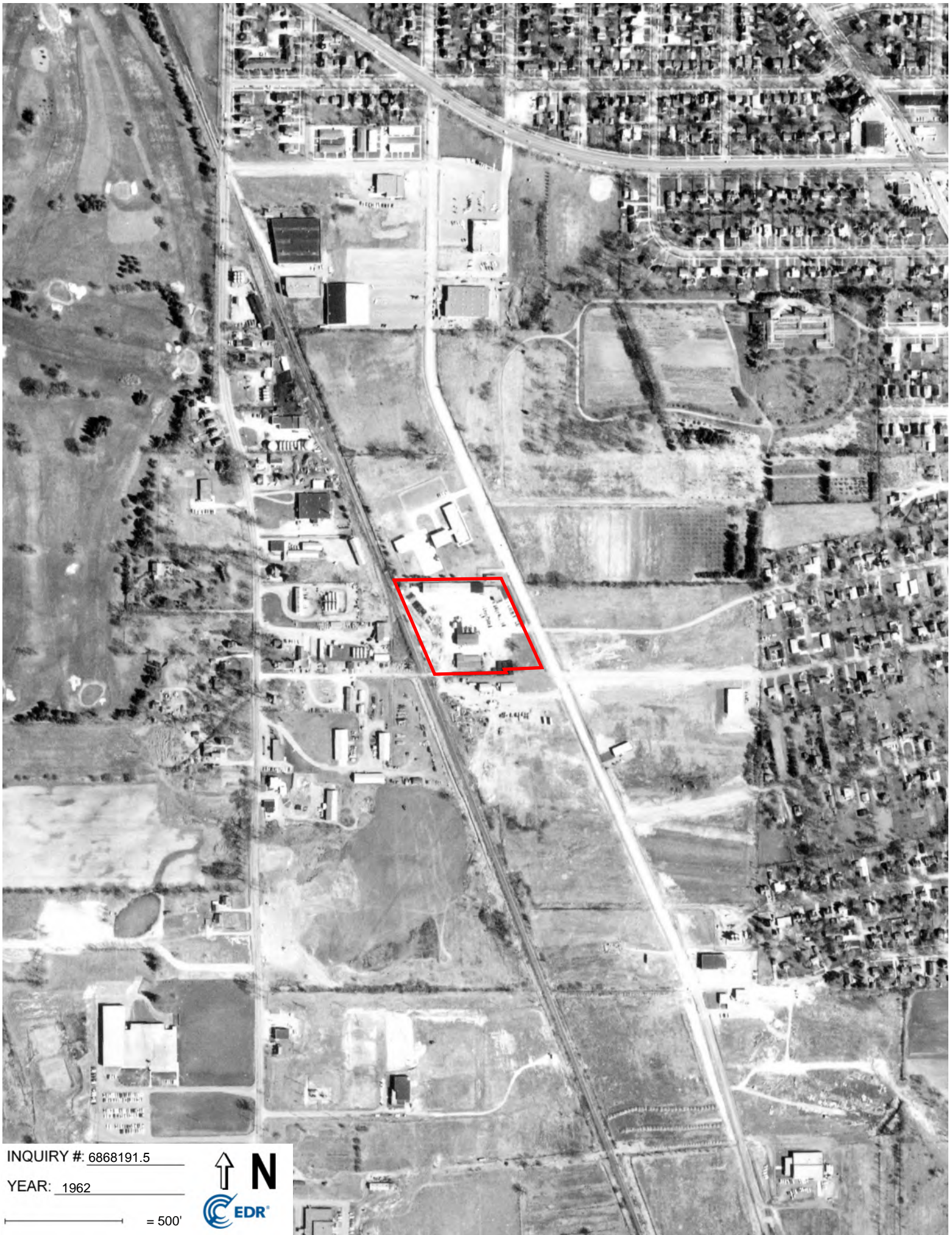


INQUIRY #: 6868191.5

YEAR: 1969

— = 500'





INQUIRY #: 6868191.5

YEAR: 1962

— = 500'



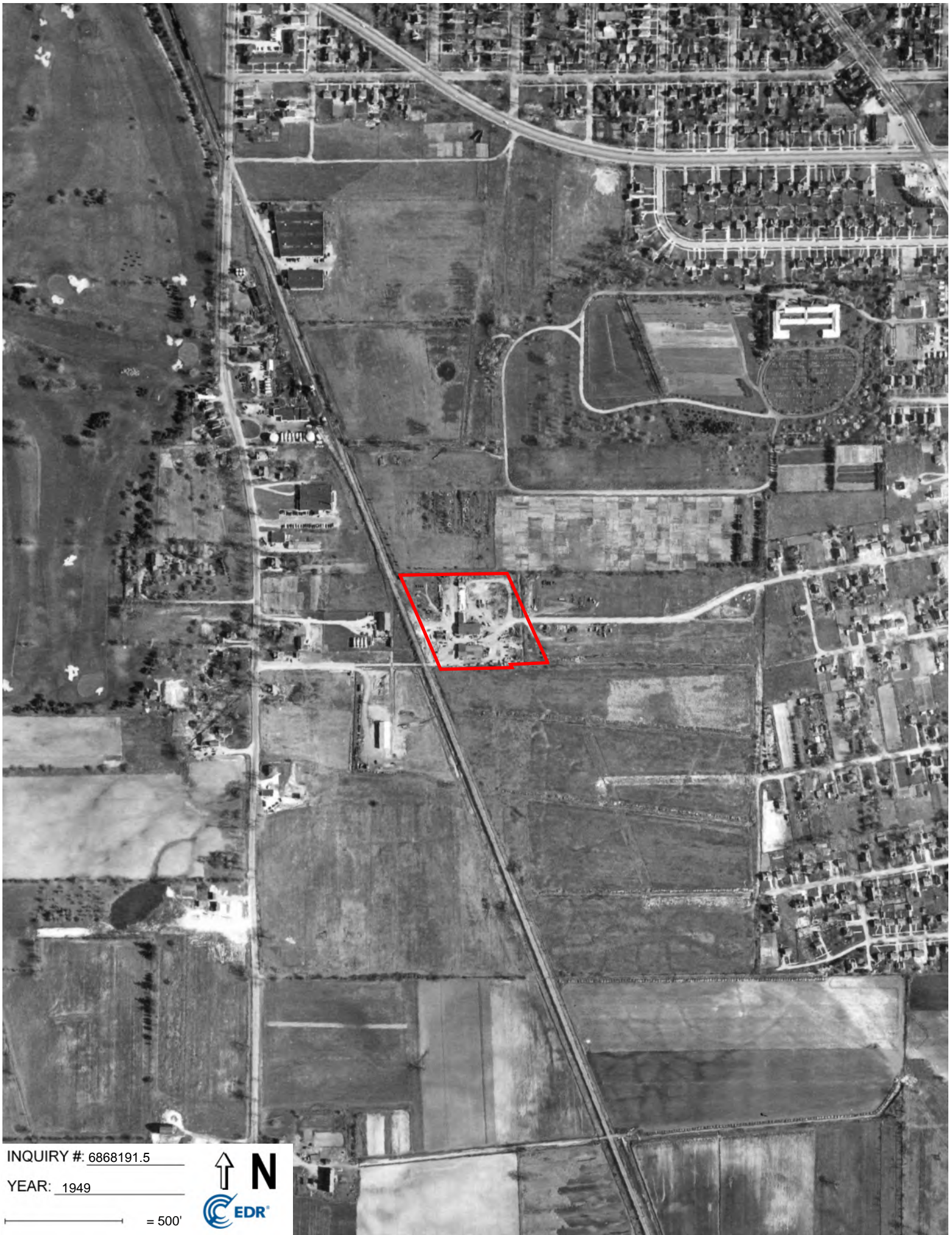


INQUIRY # 6868191.5

YEAR: 1955

— = 500'





INQUIRY #: 6868191.5

YEAR: 1949

— = 500'





INQUIRY #: 6868191.5

YEAR: 1940

— = 500'





INQUIRY #: 6868191.5

YEAR: 1937

— = 500'





APPENDIX G

HISTORICAL RESEARCH DOCUMENTATION

Industrial Property

2000 South Industrial Highway
Ann Arbor, MI 48104

Inquiry Number: 6868191.6
February 27, 2022

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1988	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1984	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1979	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1974	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1969	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1964	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1960	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1955	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1951	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1947	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1942	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1937	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory

EXECUTIVE SUMMARY

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
1932	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

2000 South Industrial Highway
Ann Arbor, MI 48104

Year CD Image Source

S INDUSTRIAL HWY

2017	pg A2	EDR Digital Archive	
2014	pg A5	EDR Digital Archive	
2010	pg A8	EDR Digital Archive	
2005	pg A10	EDR Digital Archive	
2000	pg A13	EDR Digital Archive	
1995	pg A16	EDR Digital Archive	
1992	pg A19	EDR Digital Archive	
1988	pg A22	Polk's City Directory	
1984	pg A24	Polk's City Directory	
1979	pg A26	Polk's City Directory	
1979	pg A27	Polk's City Directory	
1974	pg A29	Polk's City Directory	
1974	pg A30	Polk's City Directory	
1969	pg A32	Polk's City Directory	
1969	pg A33	Polk's City Directory	
1964	pg A36	Polk's City Directory	
1960	pg A39	Polk's City Directory	
1955	-	Polk's City Directory	Street not listed in Source
1951	-	Polk's City Directory	Street not listed in Source
1947	-	Polk's City Directory	Street not listed in Source
1942	-	Polk's City Directory	Street not listed in Source
1937	-	Polk's City Directory	Street not listed in Source
1932	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

S STATE ST

2017	pg. A4	EDR Digital Archive
2014	pg. A7	EDR Digital Archive
2010	pg. A9	EDR Digital Archive
2005	pg. A12	EDR Digital Archive
2000	pg. A15	EDR Digital Archive
1995	pg. A18	EDR Digital Archive
1992	pg. A21	EDR Digital Archive
1988	pg. A23	Polk's City Directory
1984	pg. A25	Polk's City Directory
1979	pg. A28	Polk's City Directory
1974	pg. A31	Polk's City Directory
1969	pg. A34	Polk's City Directory
1969	pg. A35	Polk's City Directory
1964	pg. A37	Polk's City Directory
1964	pg. A38	Polk's City Directory
1960	pg. A40	Polk's City Directory
1955	pg. A41	Polk's City Directory
1955	pg. A42	Polk's City Directory
1951	pg. A43	Polk's City Directory
1947	pg. A44	Polk's City Directory
1942	pg. A45	Polk's City Directory
1937	pg. A46	Polk's City Directory
1932	pg. A47	Polk's City Directory

City Directory Images

S INDUSTRIAL HWY 2017

1910 COMMUNITY AUTO WASH
 1919 LUCKYS FARMER MARKET OF ANN ARBOR L
 LUCKYS FARMERS MARKET
 REDBOX
 1935 G & B GRAPHICS
 1939 BRONSON HEATING & COOLING
 DELIVERY UNLIMITED
 WASHTENAW NEWS
 1945 JAZZERCISE
 1947 COMPUTER SCIENCE CORP
 1949 TRANE
 1950 REVEL & ROLL
 1952 A PETER JAMES SALON
 BENNYS FAMILY DINING
 BENNYS FAMILY R
 LIVING OUT LOUD LLC
 SOCCER PLUS
 THE ANN HARBOR COLLEGE OF MARTIAL AR
 THERASUPPORT
 1954 ADULT LEARNING SYSTEMS INC
 FAMILY LEARNING INSTITUTE
 MOLLY MAID OF ANN ARBOR
 PETCARE HOLISTIC VETERINARY CENTER
 1956 STADIUM DELI & WINE SHOP
 1958 CARTRIDGE WORLD
 ENCORE ON LINE RESALE
 1960 LEABU SEWING CENTER
 TOP DRAWER WOMENS DESIGNER APPAREL O
 1964 ELEGANT TAILORING
 MR STADIUM COIN LAUNDRY & DRY CLEANI
 1980 DONALD C SCHORLING USARC
 2025 WOLVERINE SUPPLY INC
 2075 STEVE STEEB SERVICE
 TRUE TECH AUTO REPAIR
 2200 ANN ARBOR DOOR SYSTEMS INC
 ANN ARBOR OFFICE REPAIR
 AUTOBAHN ENGINEERING
 HOUSEKEEPING ASSOCIATES INC
 2216 CREATIVE WINDOWS
 2232 GROSS ELECTRIC
 2255 AXEL PRODUCTS
 2275 ANN ARBOR TSHIRT COMPANY
 2280 ANN ARBOR PTO THRIFT SHOP
 2288 ADAPTIVE BUILDING SOLUTIONS
 2294 ROCHMAN DESIGNBUILD
 2298 LTEK INDUSTRIES INC
 2301 GCO FLOORING OUTLET
 THE FLOOR TRADER
 2304 BIG SKY RECORDING
 2306 GROOM N GO

S INDUSTRIAL HWY

2017

(Cont'd)

- 2308 FIRST CLASS SERVICES
IMAGECRAFTERS INC
MCRS COMPUTER SALES
PAINTERS SUPPLY & EQUIPMENT
- 2310 DUSTYS COLLISION
GETAWAY TOURS & CHARTERS
- 2311 HUTZEL PLUMBING & HEATING COMPANY

S STATE ST 2017

2051 COMPUTER ALLEY
 TOUCHSTONE SERVICES INC
 2055 FERGUSON
 2077 SURE FLO FITTINGS
 2080 AL J VEGTER ARCHITECT
 DANIELS & ZERMACK ARCHITECTS
 2082 DAVIS M SOMERS COMPANY
 2084 GOKNOW INC
 PROJECT DYNAMICS INC
 2115 GLEN ANN TOWING
 GLENANN TOWING & REPAIR
 JOURDENS AUTOMOTIVE
 2141 GALLUP PROPERTIES LLC
 MICHIGAN COMMERCIAL REALTY INC
 THE WOLVERINE MAGAZINE
 2144 DAN CORNELL D B A KELLER WILLIAMS
 KELLER WILLIAMS REALTY
 KINGSBURY, DIXIE
 MUELLER DAVID REALTOR
 OVERMYER, RYAN A
 SOUTH STATE STREET PROPERTIES LLC
 STATE STREET TITLE AGENCY
 STEFFORIA PETIK & ASSOCIATES PC
 UPROAR COMMUNICATIONS LTD
 2151 VEDDER ELECTRIC
 2178 DAVID CHEESBRO CPA
 JEFF STEFFONA CPA
 METAPHORCOM
 PELHAM TOM AGENCY
 REED LAW GROUP PC
 SOUTH STATE STREET PROPERTIES
 STATE FARM INSURANCE
 STEFFORIA PETIK & ASSOCIATES PC
 TOM PELHAM
 2179 ENVIROMENTAL INC
 2190 JOHN SCHEERER MD
 2225 MCKINLEY
 STATE STREET VILLAGE
 2245 CENTER FOR BRAINWAVE BALANCE
 DAVID E WHEATLEY PLC
 DYNAMIC EDGE
 GREENPATH DEBT SOLUTIONS
 JEWISH FAMILY SERVICES
 KASICH FOR AMERICA
 MCKINLY
 MICHIGAN TECH & RESEARCH INST
 QUANTUM LEARNING TECHNOLOGIES
 SANBORN
 THE TGQ LAW FIRM
 WEICHERT REALTORS

S INDUSTRIAL HWY 2014

1910 COMMUNITY AUTO WASH
 1919 KROGER PHARMACY
 1935 G & B GRAPHICS
 1939 BRONSON HEATING & COOLING
 DELIVERY UNLIMITED
 WASHTENAW NEWS
 1945 JAZZERCISE
 1947 COMPUTER SCIENCE CORP
 1950 COLONIAL LANES
 COMPETITIVE ADVANTAGE
 1952 A PETER JAMES SALON
 ANN HARBOR COLLEGE OF MARTIAL ARTS T
 BENNY'S FAMILY DINING
 SOCCER PLUS
 1954 ADULT LEARNING SYSTEMS INC
 FAMILY LEARNING INSTITUTE
 PETCARE HOLISTIC VETERINARY CENTER
 SUCH A FIND ESTATE LIQUIDATION LLC
 SUCH A FIND ESTATE LIQUIDATIONS
 1956 STADIUM DELI & WINE SHOP
 1958 ENCORE ON LINE RESALE
 1960 BERNINA
 BROTHER SEWING MACHINES
 JANOME SEWING MACHINES
 LEABU J SALES & SERVICE
 LEABU SEWING CENTER
 SWING CITY DANCE STUDIO
 TOP DRAWER WOMENS DESIGNER APPAREL O
 1964 ELEGANT TAILORING
 MISTER STADIUM COIN LAUNDRY & DRY CL
 1980 DONALD C SCHORLING USARC
 2000 CITY OF ANN ARBOR
 FIRE INSPECTORS
 2025 WOLVERINE SUPPLY INC
 2075 STEVE STEEB SERVICE
 TRUE TECH AUTO REPAIR
 2200 ANN ARBOR DOOR SYSTEMS INC
 ANN ARBOR OFFICE REPAIR
 AUTOBAHN ENGINEERING
 HOUSEKEEPING ASSOCIATES INC
 2216 CREATIVE WINDOWS
 2232 GROSS ELECTRIC
 2275 ANN ARBOR T SHIRT COMPANY
 2280 ANN ARBOR PTO THRIFT SHOP
 2288 ADAPTIVE BUILDING SOLUTIONS
 2294 ROCHMAN DESIGN BUILD
 2298 LTEK INDUSTRIES INC
 2301 GCO FLOORING OUTLET
 THE FLOOR TRADER
 2304 BIG SKY RECORDING

S INDUSTRIAL HWY

2014

(Cont'd)

2306	GROOM N GO
2308	FIRST CLASS SERVICES
	IMAGECRAFTERS INC
	MCRS COMPUTER SALES
	MCRS COMPUTER SALES & SERVICE
	PAINTERS SUPPLY & EQUIPMENT
2310	GETAWAY TOURS & CHARTERS
2311	HUTZEL PLUMBING & HEATING CO

S STATE ST 2014

2051	COMPUTER ALLEY TOUCHSTONE SERVICES INC
2055	FERGUSON
2059	SHINDO, TOSHIYUKI
2077	SURE FLO FITTINGS
2080	D & Z INTERIORS DIV OF DANIELS & ZER VEGTER AL J ARCHITECT
2082	DAVIS M SOMERS COMPANY
2084	GOKNOW INC
2115	EMERGENCY TOW SERVICE INC GLEN ANN TOWING JOURDENS AUTOMOTIVE SERVICES
2141	GALLUP PROPERTIES LLC MICHIGAN COMMERCIAL REALTY INC WOLVERINE MAGAZINE THE
2144	KELLER WILLIAMS REALTY MUELLER DAVID REALTOR SOUTH STATE STREET PROPERTIES LLC STATE STREET TITLE AGENCY UNITED STATES GOVERNMENT UPROAR COMMUNICATIONS LTD WOINOWSK, RUSSELL K
2151	VEDDER ELECTRIC
2178	CHEESBRO DAVID CPA METAPHORCOM REED LAW GROUP PC SOUTH STATE STREET PROPERTIES STATE FARM INSURANCE TOM PELHAM AGEN STEFFOIRA & ASSOCIATES STEFFORIA JEFF CPA STEFFORIA PETIK & ASSOCIATES PC
2190	SCHEERER JOHN MD
2245	CENTER FOR BRAINWAVE BALANCE DYNAMIC EDGE GREENPATH DEBT SOLUTIONS INTERACTIVE MENU TECHNOLOGIES JEWISH FAMILY SERVICES MCKINLY MICHIGAN TECH & RESEARCH INST QUANTUM LEARNING TECHNOLOGIES SANBORN WEICHERT REALTORS STAR PROPERTIES

S INDUSTRIAL HWY 2010

1910 ANN ARBOR CONTRACTING
 BIG DADS AUTO WASH
 1919 KROGER
 1935 DELIVERYUNLIMITED
 1939 BRONSON HEATING & COOLING
 WASHTENAW NEWS CO
 1945 JAZZERCISE
 1950 ANN ARBOR BOWLERS PRO SHOP
 COLONIAL LANES BOWLING CTR
 CUBS AC
 1952 A PETER JAMES SALON
 BENNYS FAMILY DINING
 BGREEN
 SOCCER PLUS
 1954 ADULT LEARNING SYSTEMS INC
 ARMY RECRUITING OFFICE
 FAMILY LEARNING INSTITUTE
 1956 STADIUM DELI & WINE SHOP
 1958 PARTNERS PRESS INC
 1960 LEABU SEWING CTR
 SWING CITY DANCE STUDIO
 TOP DRAWER WOMENS DESIGNER
 1964 ELEGANT TAILORING
 MISTER STADIUM COIN LAUNDRY
 1980 US ARMY RESERVE TRAINING
 2025 WOLVERINE SUPPLY INC
 2075 TRUE TECH AUTOMOTIVE REPAIR
 2200 ANN ARBOR DOOR SYSTEMS INC
 ANN ARBOR OFFICE REPAIR
 GOYETTE MECHANICAL CO
 HOUSEKEEPING ASSOCIATES INC
 2216 CREATIVE WINDOWS
 CUSTOM SHADE INC
 2232 GROSS ELECTRIC INC
 2255 ALL ABOUT FURNITURE
 2280 ANN ARBOR PTO THRIFT SHOP
 2286 A 2 METRO BATH
 2288 N C CAMS & EQUIPMENT
 2294 ROCHMAN DESIGNBUILD
 2298 DR MEND A SCRATCH
 LTEK INDUSTRIES INC
 2301 GCO CARPET OUTLET
 2304 BIG SKY RECORDING
 2308 ABSOCLEAN AUTO
 IMAGECRAFTERS INC
 MCRS COMPUTER SALES & SVC
 PAINTERS SUPPLY & EQUIPMENT CO
 2310 GETAWAY TOURS
 2311 HUTZEL PLUMBING & HEATING CO

S STATE ST 2010

2051	FRESH START CLUBHOUSE
2055	FERGUSON ENTERPRISES INC
2059	SHINDO, TOSHIYUKI
2063	ROLSTON ENTERPRISES
2077	PERFECTION SPRINKLER CO
2080	D & Z INTERIORS
	DANIELS & ZERMACK ASSOC INC
2082	DAVIS M SOMERS CO
	DISTINCT DESIGNS
2115	AUTO RESCUE EMERGENCY ROAD SVC
	BUDGET TOWING & EMERGENCY ROAD
	GLENANN TOWING LLC
	JOURDEN BROTHERS INC
	STADIUM TOWING & RECOVERY
	STATE STREET MOBIL
2141	GALLUP PROPERTIES LLC
	MICHIGAN COMMERCIAL REALTY LLC
	MICHIGAN REALTY MANAGEMENT INC
	SOPHOCLES, H
	WOLVERINE MAGAZINE
2144	ANN ARBOR FINANCIAL CNSLTNTS
	BRIAN CRAIG & ASSOC
	CLICKANNARBORCOM
	DAVID MUELLER REALTOR
	GREGOR MARIAN
	KELLER WILLIAMS REALTY
	MCGB INC
	PIPERPARTNERSCOM
	SOUTH STATE STREET PROPERTIES
	STATE STREET TITLE AGENCY LLC
	STEFFORIA & ASSOC
	UPROAR COMMUNICATIONS LTD
2151	PERSONAL TOUCH LANDSCAPE
2154	OCCUPANT UNKNOWN,
2178	WINTERMEYER, TRACY
2190	BODY HAELEN PHYSIOTHERAPY
	SCHEERER JOHN MD
2204	FLORES, NAIN
2245	DECISION INFORMATICS LTD
	DYNAMIC EDGE INC
	EMSDS
	JEWISH FAMILY SVC
	MICHIGAN TECHNOLOGICALS
	QUANTUM LEARNING TECHNOLOGIES
	WEICHERT REALTORS

S INDUSTRIAL HWY 2005

1910 ANN ARBOR CONTRACTING
 BIG DADDYS CARWASH
 1919 KROGER CO
 1935 WASHTENAW NEWS CO
 1939 BRONSON HEATING & COOLING INC
 1945 JAZZERCISE CENTER OF ANN ARBOR
 1950 COLONIAL LANES BOWLING CENTER
 CUBS A C
 1952 ANN ARBOR CUSTOM BOX CO
 BENNY, S
 BENNYS FAMILY DINING
 CHAMPIONS GYM / CHAMPIONS FITNESS
 DB JOHNSTON INC
 MASHIE & NIBLICK
 MEEKS, LYNN N
 P BOKANOSKI LLC
 PACKAGING SOURCE
 SOCCER PLUS
 1954 ADULT LEARNING SYSTEM LOWER MICHIGAN
 FAMILY LEARNING INSTITUTE
 FLYING SHEEP YARNS
 1956 STADIUM DELI & WINE SHOP INC
 1958 COPY QUICK
 KIMS TAEKWONDO U S A
 PARTNERS PRESS & COPY QUICK
 PARTNERS PRESS INC
 1960 LEABU SEWING CENTER
 1964 MENDIK ALTERATIONS
 MR STADIUM COIN LAUNDRY & DRY CLEANI
 1980 UNITED STATES DEPT OF ARMY
 2000 CITY OF ANN ARBOR WATER UTILITY
 2075 TRUE TECH AUTOMOTIVE REPAIR
 2200 ANN ARBOR DOOR SYSTEMS INC
 GOYETTE MECHANICAL CO
 HOUSEKEEPING ASSOCIATES
 2216 CREATIVE WINDOWS
 STUDIO 2000
 2232 GROSS ELECTRIC
 2255 AXEL PRODUCTS INC
 2275 STADIUM FLOOR COVERING INC
 2284 LTEK INDUSTRIES INC
 2290 FASTENAL CO
 2294 ROCHMAN DESIGN BUILD
 2301 GCO CARPET OUTLET
 2304 BIG SKY STUDIO
 2308 ABSO CLEAN AUTO
 IMAGECRAFTERS INC
 MCRS COMPUTER SALES AND SERVICE
 PAINTERS SUPPLY AND EQUIPMENT CO
 2310 GETAWAY TOURS INC

S INDUSTRIAL HWY

2005

(Cont'd)

2311 HUTZEL PLUMBING & HEATING CO

S STATE ST 2005

2051 COMPUTER ALLEY INC
 2055 FERGUSON ENTERPRISES MIDWEST
 2065 T & T WELDING
 2077 PERFECTION SPRINKLER CO
 SURE FLO FITTINGS
 2080 DANIELS AND ZERMACK ASSOCIATES INC
 2082 DAVIS M SOMERS CO
 2084 JNV ASSOCIATES INC
 PROJECT DYNAMICS
 2115 CAMPUS AUTO SALES & RENTALS
 JOURDENS AUTOMOTIVE INC
 2141 CHARLES A GALLUP LLC
 WOLVERINE MAGAZINE THE
 WOLVERINE PHOTO
 2144 ANN ARBOR FINANCIAL CONSULTANT
 B K R DUPUIS & RYDEN
 CAMPBELL ENTERPRISES
 CRAIG BRIAN & ASSOCIATES
 FECTEAU, SUSAN
 FIRST CAPITAL MORTGAGE OF ANN ARBOR
 GREGOR MARIAN CRS
 HERRST, DENNIS D
 KELLER WILLIAMS ANN ARBOR
 MCGB INC
 RAPID ROOFING PLUS INC
 SKYTRUST MORTGAGE LLC
 STEFFORIA BUSINESS SERVICES INC
 STEVEN A REED PC
 2151 GALLUP CHARLES LLC
 2154 ADVANCED MOVING SOLUTIONS INC
 MONTRY, LINDSAY
 2178 ANDERSON, LUCILLE H
 2190 AMVEST CORP
 AMVEST PROPERTY MANAGEMENT
 2204 FLORES, N
 2235 ROYAL D COLLISION
 2245 BKR DUPUIS & RYDEN
 DUPUIS & RYDEN PC
 DYNAMIC EDGE INC
 JURY PEGGY HAW CPA
 STATE TECHNOLOGY PARK ASCTN
 STATE TECHNOLOGY PARK ASSOCIATION
 STEFFORIA & ASSOCIATES PC
 WALID INC

S INDUSTRIAL HWY 2000

1919 KROGER COMPANY THE
 1935 DELIVERY UNLIMITED
 WASHTENAW NEWS COMPANY
 1945 GREAT COPY COMPANY
 1950 CLNL LANES BOWL CENTER CLNL LANES BAR & GRL
 COLONIAL LANES BOWLING CENTER
 CUBS A C
 1952 ABES CONEY ISLAND
 ANN ARBOR DISCOUNT APPAREL
 BIG BROTHERS BIG SISTERS OF WASHTENAW COUNTY
 CRESCENT IMPORTS AND PUBLICATIONS
 DEANS GOLF OUTLET
 FRINGES HAIR SALON
 HURON SERVICE FOR YOUTH INCORPORATED
 JOHNSTON INVESTMENT CORPORATION
 NAILS BY US BEAUTY STUDIO INCORPORATED
 OLAN MILLS STUDIO
 PACKAGING STORE
 U HAUL COMPANY
 1954 ADULT LEARNING SYSTEMS INCORPORATED
 UNITED STATES GOVERNMENT ARMY DEPARTMENT OF
 1956 STADIUM DELI & WINE SHOP
 1958 MACGREGOR, ROBERT
 REINHART CHARLES CO
 1960 LEABU J SALES & SERVICE
 SWING CITY DANCE STUDIO
 TOP DRAWER WOMENS DESIGNER APPAREL ON CONSIGNMENT
 WHITE SEWING MACHINES
 1964 MR STADIUM COIN LAUNDRY & DRY CLEANING
 1980 BOUTELLE, RANDY S
 UNITED STATES GOVERNMENT ARMY DEPARTMENT OF
 2000 ANN ARBOR CITY OF
 2025 WOLVERINE SUPPLY INCORPORATED PLUMBING
 2075 TRUE TECH AUTOMOTIVE REPAIR
 2200 FUNDAMENTAL PLAYSCAPES
 H L & A
 HOUSEKEEPING ASSOCIATES
 MUMFORD STEVEN
 MUMFORD, STEVEN
 RETTIG ENGINEERED PRODUCTS
 SWEDISH SALES AND LEASING
 2216 CREATIVE WINDOWS & WALLS
 CUSTOM SHADE INCORPORATED
 STUDIO 2000
 2232 CROSS INCORPORATED
 GROSS ELECTRIC
 2255 AXEL PRODUCTS
 JAREMA, C
 MAACO AUTO PAINTING & BODYWORKS
 THUMB PRINT INCORPORATED

S INDUSTRIAL HWY

2000

(Cont'd)

- 2275 STADIUM FLOOR COVERING
STADIUM FLOOR COVERINGS
- 2284 A SAP SOURCE
LTEK INDUSTRIES INCORPORATED
- 2290 FASTENAL COMPANY
- 2296 BETATRONICS
D D WHITE CUSTOM HOMES INCORPORATED
- 2298 DR MEND A SCRATCH
LITTLEFIELD & SONS FURNITURE SERVICE
- 2301 G C O CARPET OUTLET COLOR TILE OUTLET
- 2304 SOLID SOUND INCORPORATED
- 2306 GOLDEN LIMOUSINE INCORPORATED
- 2308 CREATIVE AUDIO
M C R S COMPUTER SALES & SERVICE
MICRO COMPUTER REPAIR SERVICES
SHERWOOD COMPUTER & PERIPHERAL REPAIR MCRS
STAUDER, THOMAS J
- 2310 SPEC METALS CORPORATION UDIMET POWDER DV DEVELOPMENT CENTER
- 2311 GLEASON & RAUS COMPANY INCORPORATED
HUTZEL PLUMBING & HEATING COMPANY

S STATE ST 2000

2051 TECHNOLOGY PARTNERS INCORPORATED
2055 GAGE COMPANY ANN ARBOR PIPE & SUPPLY DIVISION
2063 ROLSTON ENTERPRISES
2065 T & T WELDING
2077 PERFECTION SPRINKLER COMPANY
SURE FLO FITTINGS
2080 D & Z INTERIORS DIVISON OF DANIELS & ZERMACK ARCHITECTS
DANIELS & ZERMACK ASSOCIATES INCORPORATED ARCHITECTS & INTER
VEGTER AL J ARCHITECT
2082 OCCUPANT UNKNOWN,
SOMERS DAVIS M COMPANY
2084 HIRST DEBORAH PH D
INTERIOR DESIGNS BY NICOLETTE
J N V ASSOCIATES INCORPORATED
2096 OCCUPANT UNKNOWN,
2115 A A AUTO RENTAL
BUDGET TOWING & EMERGENCY ROAD SERVICE
CAMPUS AUTO SALES & RENTALS
JOURDENS AUTOMOTIVE SERVICE
OCCUPANT UNKNOWN,
2141 BILLINGS INDUSTRIAL GROUP
CARLSON THEODORE
MCGREGOR LAWN SERVICE & LANDSCAPING
MEDIA TECHNOLOGY
SHARIEFF SHOEB
WEBKRAAFT
2151 OCCUPANT UNKNOWN,
VEDDER ELECTRIC
2154 OCCUPANT UNKNOWN,
2178 ANDERSON, LUCILLE H
2190 AMVEST CORPORATION
CLARY, ANITA
2204 OCCUPANT UNKNOWN,
2245 HORISZNY PAMELA J CPA CFP
WAHL LYLE CPA
2250 FREEMAN DARLING CONSTRUCTION

S INDUSTRIAL HWY 1995

1910 COMPLETE AUTO WASH
 1919 KROGER FOOD STORES
 THE KROGER CO
 WESTERN UNION
 1935 WASHTENAW NEWS CO
 1939 GEORGE L JOHNSTON CO
 1950 COLONIAL LANES BOWLING CTR
 CUBS AC
 1952 BIG BROTHERS & BIG SISTERS
 GUMBYS PIZZA
 HURON SERVICES FOR YOUTH INC
 KITCHEN SUPPLIERS INC
 MEEK, NORMA L
 MEEKS, NORMA
 OLAN MILLS STUDIO
 PACKAGING STORE
 TOP DRAWER WOMENS DESIGNER
 U HAUL CO
 1954 US ARMY RECRUITING
 1956 STADIUM DELI & WINE SHOP
 1958 MISTER STADIUM COIN LAUNDRY
 1960 J LEABU SALES & SVC
 UFER & CO INSURANCE
 1980 US ARMY RESERVE TRAINING CTR
 2000 ANN ARBOR UTILITIES DEPT
 2025 WOLVERINE SUPPLY INC
 2075 DETERRENT AUTO SECURITY
 DIVERSFD AUTO
 DIVERSIFIED AUTO SVC CTR
 2200 CONTROL LOGIC INC
 MOLLY MAID INC
 SKATE EXCHANGE
 SWEDISH ENGINEERING
 SWEDISH SALES & LEASING
 2216 CREATIVE WINDOWS & WALLS
 CUSTOM SHADE INC
 SLY, CARL F
 2232 CROSS INC
 GROSS ELECTRIC INC
 2255 ALWAYS BETTER CAR DETAILING
 BUSINESS PRODUCTS INC
 MAACO AUTO PAINTING & BODYWORK
 2275 STADIUM FLOOR COVERINGS
 2280 WEDEMEYER ELECTRONIC SUPPLY CO
 2290 FASTENAL CO
 2294 C D SALES
 CREATIVE DIMENSION
 REPUNETICS INC
 2296 BETATRONICS
 2298 LITTLEFIELD & SONS FURNITURE

S INDUSTRIAL HWY

1995

(Cont'd)

- 2301 GEORGIA CARPET OUTLET
- 2306 ALL AMERICAN CASH REGISTER
LAUVERS BUSINESS MACHINES
- 2308 AFFORDABLE AUTO DETAILING
BRADS MOBILE AUTO GLASS
J P COUNTERS
MICRO COMPUTER REPAIR SVC
SHERWOOD COMPUTER & REPAIR
- 2310 SPECIAL METALS CORP
SPECIAL METALS MKT
- 2311 HUTZEL PLUMBING & HEATING CO

S STATE ST 1995

2029	POPCO INC
2051	CONDOR COMPUTER CORP CONNECTING POINT TECHNOLOGY PARTNERS INC TODAYS COMPUTER BUSINESS CTR
2055	GAGE CO ANN ARBOR PIPE & SUPL
2077	AL WALK PLUMBING MICHIGAN IRRIGATION SVC SURE FLO FITTINGS
2079	ERSKINE WELDING SHOP
2080	ALBERT J VEGTER D & Z INTERIORS DANIELS & ZERMACK ASSOC INC ROBERT P WU
2082	DAVIS M SOMERS CO
2084	JNV ASSOC INC
2095	RLS FLOORING
2096	DIEPHUIS, DAVID JOHNSTON, M C
2115	A A AUTO RENTAL JOURDENS AUTOMOTIVE SVC
2141	GALLUP ONE STOP GALLUP SILKWORTH PETROLEUM GALLUP-SILKWORTH
2154	OCCUPANT UNKNOWNN
2178	ANDERSON, ALBERT R
2190	AMVEST CORP GUILBAULT, DIANNE
2204	LAURA, SEAN
2245	SCHWEITZER REAL ESTATE INC TOWNSEND&BOTTUM SV

S INDUSTRIAL HWY 1992

1910	UNIVERSAL CAR WASH
1919	THE KROGER CO WESTERN UNION
1935	IMAGE MASTERS IMAGE MASTERS PRNT
1939	GEO L JOHNSTON CO
1950	COLNL LANES BAR&GR COLNL LNS BOWLING CUBS A C
1952	H S A HAIR CARE SUPPLY HANDLE WITH CARE HOMERUN SV OF AMER HURON SRVC FOR YTH JOHNSTON INVESTMNT KITCHEN SUPPLIERS KSI KITCHEN&BATH OLAN MILLS STUDIO PACKAGING STORE
1954	CHIC UNIV COSMTLG US RECRUITING STN
1956	STADIUM DELI&WINE
1958	MR STDM CN LNDRY
1960	J LEABU SALES&SRVC J LEABU SALES&SVC THE LEARNING CONNE UFER INS AGCY WHITE SEWING MACHS
1980	US RESERVE TRNG CT
2000	CITY UTIL FIELD SV
2025	WOLVERINE SUPPLY
2075	DETERRENT AUTO SCR DIVERSFD AUTO TUFF-KOTE DINOL TUFF-KOTR AUTMTV
2200	IN HOUSE PRNTNG MOLLY MAID SWEDISH ENGINEERNG SWEDISH SLS&LEASNG THE ICE SKATE EXCH THE SKATE EXCH
2216	CREATV WNDWS&WALLS CUSTOM SHADE INC
2232	CROSS INC GROSS ELECTRIC INC
2255	ABDC ALWAYS BETTR CR DT BUSINESS PRODUCTS CPT CORP MAACO AUTO PNT&BDY

S INDUSTRIAL HWY

1992

(Cont'd)

2275	STADIUM FLOOR CVRG
2280	WEDEMEYER ELEC SPL
2290	FASTENAL CO
2296	BETATRONICS
2298	EXTANG INC TUFF TONNO
2301	GEORGIA CARPET OUT
2304	COIN METER AN ARB DAVID W MAHEY
2306	LAUVERS BUSN MACH
2308	BRADS MBL AUTO GLS J P COUNTERS MICRO COMPUTER RPR SHERWOOD CMPTR RPR
2310	SPEC METALS CORP SPECIAL METALS MKT
2311	HUTZEL PLMB&HTNG

S STATE ST 1992

2029	POPCO INC
2051	CNNCTNG PT CMPUTR TECHNOLOGY PRTNRS
2055	GAGE CO-AN ARB DIV
2075	ERSKINE WELDING
2077	BOB&I COLLECTIBLES PERFECTION SPNKLR RLS CARPET INSTALL SURE-FLO FITTINGS
2080	AL J VEGTER ARCH D&Z INTERIORS DANIELS&ASC ARCHTS WILLIAM L JAMES
2082	DAVIS M SOMERS CO
2084	JNV ASSOCS INC
2096	DIEPHUIS, DAVID
2129	CMPTR MEDIC
2141	GALLUP ONE STOP GALLUP-SILKWORTH HOP IN FOOD STORES
2151	VEDDER ELECTRIC
2154	LONCARIC, THOMAS
2178	ANDERSON, ALBERT R
2190	AMVEST CORP CONLIN, PHILIP THE CONLIN CO THORNBUR, DEBORAH WILSON, S
2204	PROKOS, STEVE
2240	LAWRENCE, PAUL SAUL, L
2245	B FRIPPE-FREEDMAN BARRY LUCHS RL EST J WHITE RL EST JOHN GUTHRIE RLEST K STIVERS RL EST SPEAR&ASSOCS TED DORR RL EST TOWNSEND&BOTTUM TOWNSEND&BOTTUM SV

S INDUSTRIAL HWY 1988

1954 Bldg
 Suites
 A Discount Video movies 747-7400
 B Vacant 747-8506
 C Ann Arbor Beauty Academy
 665-3866
 1956 Stadium Deli & Wine ret gro
 662-2885
 1958 Mister Stadium Coin Laundry
 668-7928
 1960 Building
 Suite
 A Ufer & Sons Insurance Agency Inc
 668-4166
 B Vacant
 C Huron Residential Servs For Youth
 Inc social servs 930-0831
 E Vacant
 D Vacant
 ASTOR DR BEGINS
 1980 U S Army Reserve Training Center
 662-0566
 2000 City Utilities Dept (Field Ofc)
 994-1760
 2025 Wolverine Supply Inc whol plmb sups
 665-9771
 2050 Ecology Center-Recycle Ann Arbor
 junk dlr 665-6398
 2075 Diversified Auto automotive
 rustproofing 994-4808
 ROSEWOOD ST BEGINS
 A March Of Dimes Birth Defects
 Foundation 761-6331
 2200 Ann Arbor Cleaning Supply Co
 662-5293
 2216 Creative Windows & Walls window
 shades 769-5100
 2232 Gross Electric equip 665-8676
 2255 Business Products Inc business mach
 668-7550
 Parent's Pride Diaper Service 662-5933
 Maaco Auto Painting & Body Works
 994-4805
 2275 Stadium Floor Coverings 668-6762
 2280 Wedemeyer Electronic Supply Co whol
 equip 665-8611
 2282 Huron Leasing Inc serv center
 996-9165
 2290 Exide Corporation battery whol
 930-0020
 2292 Betatronics computer & electronics
 mfr 663-7537
 2296 Extang Corp (Addl Sp) 665-5270
 2298 Extang Corp auto accessories 665-5270
 JEWETT AV BEGINS
 2304 Coin-Meter Ann Arbor Co metered
 Indry equip 662-5681
 2306 Lauver's typewrtrs tel answering mach
 769-6630
 2308 Enmet Corporation mfg electronic
 equip 761-1270
 2310 Special Metals Corp dental prods div
 mfg 665-0669
 2311 Hutzl Air Condt Htg Plmb & Refgr
 665-9111
 2331 Woodside Automotive parts-retail
 665-4461
 Associated Fleet Service auto repr
 994-3238
 2401 Fel-Kran Plumbing & Heating Co
 Inc 665-4494
 2420 Ann Arbor Warehouse Co Inc
 769-4100
 Mayflower Van Lines 769-4100
 Godfrey Moving & Storage Co
 769-4100
 2440 Behler Young Co htg & plmb sup
 whol 761-5511
 2443 Glasrock Home Health Care home
 health care 996-5500

S STATE ST 1988

S STATE ST--Contd	
8★Jones Kevin J	2500 Edwards Brothers Inc book mfg 769-1000
9★Bales Robt	2509 U A W Local 38 662-6448
10★Eueng Mark	2511 Oppenheimer Group Inc real est 994-6050
11 Steigelman Richd 996-3521	Douglass Heating & Cooling contrs 662-7957
12★Jong Hee-Sen	2555 City Bd Of Educ Admn Ofc 994-2200
STIMSON BEGINS	IRREGULAR NUMBERS
A A R R CROSSES	2581 Detroit Edison Sub Sta
1621 U Of M Univ Hosp Distr Cntr	2575 Cooper Howard Inc 761-3200
Receiving Dock 3 763-2080	2601 Perfect Optics Inc precision instruments 662-6511
1623 Vacant	Balance Dynamics Corp mfg balancing sys 996-5750
ws U Of M (Golf Course)	Microlan Systems Inc computer 994-3666
1629 Produce Station The	2721 Spear & Assoc Inc 994-0112
1635 Frog Holler Ltd prod distr 663-5067	2750 Office Building
1641★Collotto Prudinci 663-0294	Katke Company The computer info- mgmt conslt serv 668-9900
1643 Hofmann's Furniture Inc ret 665-5422	T K Company System distrs- computer related prods 994-4499
1645 Romo Raymond 994-3069	Floor
1675 Davis R E Construction Co bldg contrs 662-5523	1stfl National Reproductions Corp (Br) coml prntg 662-5252
1680 Schulz Tom 996-8269	2dfl Real Estate One 995-1616
1700★Mills Leon 761-3716	2750 Fireman's Fund mtges 994-6444
1710 White Paul D Agency ins 663-5447	2761 Vacant
1712★Szymko Stanley	HIDDEN VALLEY DR BEGINS
1717 West Hawk Industries advertising specialties 761-3100	72 2800 Advance Interiors int dec 665-3606
Image Crafters screen process printing 761-4504	Lyons & Associates Inc real est 663-7799
Graphic Impressions printers 761-5158	Designer Image Hair Studio beauty shop 996-1415
1720★Dooney Lee	Stephen Frame & Gallery 769-5183
2007 Studio Center Photographic photog 761-8530	2801 Gill Clement C ins 761-6381
2008 Forner Construction Co 769-5995	State Farm Insurance 761-6381
Sanford Security 768-0038	2803 Vacant
2011 Doyle Bradley 663-5892	Ann Arbor Cellular mobile phone sys 994-4249
Hawkins Stewart 668-2496	2900 Allen Peter T Assn (Ret Sp)
2025 Widman Kenneth @ 662-7137	2930 Michigan National Bank 996-1268
2029 Vacant	2990 Vacant
2051 Vacant	2991 State Street Shell gas sta- convenience store 662-1790
Vacant	
2055 Ann Arbor Pipe & Supply Co plmb sups 663-9335	
2058 Cummins & Barnard Inc architects & engs 761-9130	
2075 Erskine Welding Shop 665-7149	
2077 Michigan Irrigation Serv (Div Perfection Sprklr) pipes pumps sprinklers 761-5110	
2080 Daniels & Zrmack Assocs archts & interior designers 761-2090	
D & Z Interiors 761-2090	
2082 A-Jay Services Inc homes for handicapped adults 769-0775	
2084 J N V Associates interior designers 663-4666	
2096 Diephius Carol 663-6564	
2115 Carlton Oil Co Inc 994-5540	
2129 Computer Medic 662-1228	
2141 Gallup-Silkworth Inc fuel oil distr 769-8100	
2154★Jones Lawrence W 747-6524	
2178 Anderson Albert R @ 662-6009	
2179 Display Tech Inc 994-3460	
2190 Fajen James A	
2204 Thompson Ann 665-8483	
2208 Vacant	
3★Block Andrew	
2244★Burke Neil	
2245 Townsend & Bottum Inc constr contrs 761-3440	
2271★Wetzel Raymond L 769-2377	
2285 Ann Arbor Plastics Inc fabrication retail & wholesale 994-3674	
2289 Ann Arbor Graphics 994-3716	
2295 Brazeau Marie Custom Clothing 663-9030	
Timm's Place Hair & Body Salon beauty salon 663-9577	
2333 Englander Triangle Inc retail furn 769-8040	
2343 Vacant	
2390 Jones & Alexander dentists 665 9104	
2455 Vacant	
2500 Edwards Brothers Inc book mfg 769-1000	
2509 U A W Local 38 662-6448	
2511 Oppenheimer Group Inc real est 994-6050	
Douglass Heating & Cooling contrs 662-7957	
2555 City Bd Of Educ Admn Ofc 994-2200	
IRREGULAR NUMBERS	
2581 Detroit Edison Sub Sta	
2575 Cooper Howard Inc 761-3200	
2601 Perfect Optics Inc precision instruments 662-6511	
Balance Dynamics Corp mfg balancing sys 996-5750	
Microlan Systems Inc computer 994-3666	
2721 Spear & Assoc Inc 994-0112	
2750 Office Building	
Katke Company The computer info- mgmt conslt serv 668-9900	
T K Company System distrs- computer related prods 994-4499	
Floor	
1stfl National Reproductions Corp (Br) coml prntg 662-5252	
2dfl Real Estate One 995-1616	
2750 Fireman's Fund mtges 994-6444	
2761 Vacant	
HIDDEN VALLEY DR BEGINS	
72 2800 Advance Interiors int dec 665-3606	
Lyons & Associates Inc real est 663-7799	
Designer Image Hair Studio beauty shop 996-1415	
Stephen Frame & Gallery 769-5183	
2801 Gill Clement C ins 761-6381	
State Farm Insurance 761-6381	
2803 Vacant	
Ann Arbor Cellular mobile phone sys 994-4249	
2900 Allen Peter T Assn (Ret Sp)	
2930 Michigan National Bank 996-1268	
2990 Vacant	
2991 State Street Shell gas sta- convenience store 662-1790	
	73
	E EISENHOWER PKWY INTERSECTS
	ZIP CODE 48108
	3001 Wolverine Tower ofc bldg 994-5888
	Suites
	20 Wolverine Tower Building Management (Lambrecht Co) 994-5888
	1 Smith Hague & Co Inc (Br) stock exch 662-5535
	10 Prudential Insurance Co Of Am The ordinary agcy ofc 995-8883
	16 Comshare Inc information cntr
	18 Vacant
	21 Pop Company Inc 996-4540
	21 Lobby Shoppe The 662-4777
	22 Nancy's The Enchanted Florist 663-4141
	28 State Fare Cafe 662-9677
	30 Internal Revenue Service (Ann Arbor Br Ofc) 769-9850
	38 Upper Cut Hair Designs The beauty shop 663-2887
	39 C T S-Unitel business communications 662-8700
	40 Franklin Realty 747-8000
	42 Vacant
	44 Allied Services Of Ann Arbor traffic mgmt 665-3600
	46 Kennedy Darl J dentist 665-2212
	46 Marzonia Christopher J dentist 665-2212
	48 Comerica Bank-Ann Arbor (Wolverine Tower Ofc) 761-3070
	201 Digitax Incorporated software sales 663-4555
	3dfl Comshare Inc (Addn Sp)

S INDUSTRIAL HWY 1984

G Benito's Pizza 769-6525	2440 Behler Young Co plmb sup whol 761-5511
H Olan Mills portrait studio 769-8600	2455 Phelps V A & Associates Inc mfrs agts 665-7463
J Huron Residential Services For Youth Inc 994-4224	Integrated Engineering Services Corp consultant eng 665-6944
1954 Suites	Holco Industries incl mtl & furn stripping 994-5154
A Cornerstone Christian Church 769-2910	Quadrifoglio Import Auto Repair 971-8113
C Executive Tax Service bkpg serv 665-5741	2457 Lindsay Soft Water 665-5999
1956 Ouch Pik Sunshine Foods ret gro 662-2885	2457a Ann Arbor Cablevision 662-2253
1958 Mister Stadium Coin Laundry 668-7928	2459 De Koning Henry Construction Co bldg contrs 769-5870
1960 Building	2460 Schmidt E W Haight candy & tobacco whol 663-4135
Gold Gallery Inc jwlry mfg 995-1192	Distributor Concepts computer sls 663-4214
Suite	2464 Vacant
A Ufer & Sons Insurance Agency Inc 668-4166	2465 Shar Products Co mus 665-7711
B Fantastic Sams beauty shop 761-7262	American Case Co music instrument cases mfrs 665-7714
C Vacant	M & M Distributing whol music instr cases 665-7715
E Ann Arbor Copy Products Inc 996-9666	2500 Your Attic stge & ryder truck rentals 973-2212
D Ann Arbor Copy Products (Addl Sp)	Robinson Mark
ASTOR DR BEGINS	2505 Hentschel Instruments Inc 973-2505
1980 Army Reserve Training Center 662-0566	2770 Ann Arbor Transit Bus Garage
2000 City Utilities Dept (Field Ofc) 994-1760	
2025 Wolverine Supply Inc whol plmb sups 665-9771	
2050 Ecology Center-Recycle Ann Arbor junk dlr 665-6398	
2075 Tuff Kote Dinol automotive rustproofing 994-4808	
ROSEWOOD ST BEGINS	
2200 March Of Dimes Birth Defects Foundation 761-6331	
Molly Maid Inc maid serv 665-7575	
Huron Valley Ambulance Inc 994-5959	
Ann Arbor Cleaning Supply Co 662-5293	
2216 Creative Windows & Walls window shades 769-5100	
2232 Gross Electric equip 665-8676	
2255 Business Products Inc business mach 668-7550	
Parent's Pride Diaper Service 662-5933	
Maaco Auto Painting & Body Works 994-4805	
2275 Stadium Linoleum & Tile Corp 668-6762	
2280 Wedemeyer Electronic Supply Co whol sup 665-8611	
JEWETT ST BEGINS	
2304 Coin-Meter Ann Arbor Co metered Indry equip 662-5681	
2306 Lauver's cash registers & calculators 769-6630	
2308 Enmet Corp mfg electronic equip 761-1270	
er 2310 Special Metals Corp (Research Div) 665-0669	
r 2311 Hutzal Air Conditioning Heating Plmbg & Refgr 665-9111	
2331 Woodside West Auto Parts auto parts 665-4461	
Sanford Automotive auto repr 665-0264	
2401 Fel-Kran Plumbing & Heating Co Inc 665-4494	
2420 Ann Arbor Warehouse Co Inc 769-4100	
Mayflower Van Lines 769-4100	
Godfrey Moving & Storage Co 769-4100	
	INGALLS ST N —FROM 900 E HURON NORTH
	ZIP CODE 48104
	101 Apartments
	1★Illis Wm R
	2★Katt Jeffrey A 995-9491
	3★Vasilidy Dimitrios
	4★Shapiro Brad D 996-2370
	5 Boyce Thos G 665-6164
	6★Bacus Eliz A
	7★Ramos Kristina M 663-7066
	8★Neu Gregory T
	106 No Return
	110 Apartments
	1 Vacant
	2 Aboulafia Albert J
	3★Aster Jon C
	4 Conrad John C
	5★Na Syou-Fu
	113 Dunstan Ciaran G
	114 Ingalls House Apartments
	1★Smithson Chas J
	2 Vacant
	3★Patriarca Marie I
	4 No Return
	5★Kelly Edw P Jr
	21 Cortez Miguel
	22★Rosenquist Nancy A 665-7759
	23★Anderson Norman
	24 Vacant
	25 Biddle Vincent
	26★Byron Mark
	27 Vacant
	28★Billiet-Beaux Geo
	33 Vacant
	118 Poffenberger Rodney
	120★Danielson Kurt 761-7329
	E ANN INTERSECTS
	200 U Of M Burn Cntr (Research Unit) 763-0555
	Feller Irving phys 761-3666
	203★Sedlok Evan 662-0572
	204 Apartments
	1★Vander Veen Carrie B
	2★Huft Nancy L 662-5357

S STATE ST 1984

1605-2★Morris Howard	2190 Fajen James A 663-8435
1607 Folk Carl A © 663-5488	2204 No Return
1609-1 Berwald Patricia A 994-1170	2208 Le Furge Donald I © 662-6715 1 Stewart Tracy 761-5746
1609-2 No Return	2240★Stutler David ★Meek Harold
1611 Apartments	2244 Brown Anne L
1★Schappe Scott	2245 Townsend & Bottum Inc constn contrs 761-3440
2 Bray Gerald 863-0251	2271★Schwalbach Dean 994-3078
3★Peterson Steven	2285 Ann Arbor Plastics Inc 994-3674
4★Knight Jerry	2295 Vacant
5★La Haie Norman	2333 Englander Triangle Inc retail furn 769-8040
6★Holt Thos J	2343 Ethan Allen Gallery 769-5633
7★Blair Cynthia	2390 Vacant
8★Clement Benoit R 769-7654	2455 Tee & Ski sports and equipment 662-7307
9★Hoekstra Keith	2500 Edwards Brothers Inc book mfg 769-1000
10 Byrd J 663-7859	2509 U A W Local 38 662-6448
11★Sutherland Deborah 761-1573	2511 Douglass Heating & Cooling contrs 662-7957
12★Mills Douglas H 994-4423	2555 Bd Of Educ adrn ofcs 994-2230
12★Luckey James	2575 Cooper Howard Honda new & used car sls 761-3200 Cooper Howard Volkswagen Inc 761-3200
STIMSON BEGINS	2581 Detroit Edison sub sta
A A R R CROSSES	2601 Perfect Optics Inc precision instruments 662-6511 Balance Dynamics Corp mfg balancing sys 996-5750 Traces Incorporated mfg computer 662-6188
1621 U Of M Univ Hosp Distr Cntr Receiving Dock 3 763-2080	2721 Spears Realtors (Addl Space) Spear Realtors (Br) 994-0112
1623 Vacant	2750 National Reproductions Corp printers sups & equip 662-5252
1635 Frog Holler Ltd prod distr 663-5067	2761 Washtinaw Alans Club 994-9623 HIDDEN VALLEY DR BEGINS
1641 Rosewood Products distr whol cheese 665-2233 Sun Farms trucking 665-2222	2800 Advance Interiors int dec 665-3606 Lyons & Associates real est 663-7799 Stephen Frame & Gallery picture & frames 769-5183
1643 Hofmann's Furniture 665-5422	2801 Gill Clement C ins 761-6381
1645 Romo Raymond Jr 994-3069	2803 Arbor Travel Agency Ltd 761-5388 Crowe Dale J P C lawyers 761-2626
1675 Davis R E Construction Co bldg contrs 662-5523	2900 Vacant
1680★Schulz Tom 996-8269	2930 Michigan National Bank-Ann Arbor 996-1268
1700★Sawyer Sherry 995-2368	2990 Vacant
1710 White Paul Agency ins 663-5447	2991 Briarwood Shell gas sta 665-3200 E EISENHOWER PKWY INTERSECTS
1712 Vacant	3001 Wolverine Tower (Office Bldg) Suites Basement Comshare (Addl Space) Wolverine Tower Building Management (Lambrecht Co) 994-5888
1717 Advertisers Publishing Co adv splst 665-6171 West Hawk Industries advertising specialties 761-3100 Imagecrafters screen process printing 761-4504	1 Smith-Hague & Co Inc stock exch 662-5535
1720★Maki M W 662-1914	16 Comshare (Addl Space)
	18 Vacant
	21 Lobby Shoppe The 662-4777
	22 Nancy's The Enchanted Florist 663-4141
	28 Towers Restaurant 994-4963
	30 Internal Revenue Service (Ann Arbor Ofc) 769-9850
	38 Upper Cut Hair Designs The beauty shop 663-2887
	39 Mid-West Auto Lease 761-2122
	40 Joseph Sydney phys 663-9678
	40 Fransway Robt L phys 994-3442
	42 Vacant
	46 Kennedy Danl J dentist 995-9808
2007 Vacant	
2008 Forner Construction Co 769-5995	
2011★Shea Michl 665-2379	
2025★Widman Kenneth © 662-7137	
2027 Vacant	
2051 Condor Computer (Addl Space) Condor Computer Corp micro computers 769-3988	
2055 Ann Arbor Pipe & Supply Co plmb sups 663-9335	
2058 Cummins & Barnard Inc architects & engs 761-9130	
2075 Erskine Welding Shop 665-7149	
2077 Michigan Irrigation Serv (Div Perfection Sprklr) pipes pumps sprinklers 761-5110	
2080 Daniels & Zermack Assocs archts & interior designers 761-2090 D & Z Interiors 761-2090	
2082 Condor Computer Corp (Addn Space) Somers Somers & Miner appraisals consultant 665-5891	
2084 J N V Associates interior designers 663-4666	
2096 Johnston Carol © 663-6564	
2097 Vacant	
2115 Carlton Oil Co Inc 994-5540	
2141 Gallup-Silkworth Inc fuel oil distr 769-8100 Gallup-Silkworth Inc pump & pantry ofc 769-8100	
2154 Widemyer Marvin 663-7366	
2178 Anderson Albert R © 662-6009	

S INDUSTRIAL HWY 1979

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**INDUSTRIAL HWY S —FROM E
STADIUM BLVD SOUTH 1 EAST OF
ANN ARBOR R R**

ZIP CODE 48104

- 1700 Way Baking Co (Br) whol bakers
662-3217
- 1910 Universal Car Wash 665-8123
- 1919 A & P Food Stores (Br)
- 1935 Coca-Cola Bottling Co 665-3645
- 1950 Colonial Lanes NO5-4474
Pin Room Colonial Lanes restr
NO2-3808
- 1952 Under Constn
- 1954 Chrysler Huron Valley Training
Center 665-9032
- 1956 Quick Pik ret gro 761-3711
- 1958 Mister Stadium Coin Laundry
668-7928
- 1960 Ufer And Sons Insurance 668-4166
- 1980 Army Reserve Training Center
NO2-0566
- 2000 City Utilities Dept 761-2400
- 2025 Wolverine Supply Inc whol plmb sups
665-9771
- 2050 Ecology Center Recycling Sta
- 2075 Tuff Kote Dinol automotive
rustproofing 994-4808
- 2200 Fontana & Taylor Ambulance
994-4111
Ann Arbor Cleaning Supply Co
662-5293
Miller Lynn water consultant
665-2505
Wallaby Incorporated adv 663-3357
Washtenaw Contractors Association
Inc business org contrs 663-2772
- 2216 Gross Lighting Center 665-8676
- 2232 Co-Op Auto Of Washtenaw Inc
769-0220
- 2255 Ambassador Business Products
typewriter repr 668-7550
Parent's Pride Diaper Service
662-5933
Maaco Auto Painting & Body Works
994-4805
- 2275 Stadium Linoleum & Tile Corp
NO8-6762
- 2280 Wedemeyer Electronic Supply Co whol
sup 665-8611
- 2304 Coin-Meter Ann Arbor Co 662-5681
- 2306 Lauvers adding mach sls & serv
769-6630
- 2308 Enmet Corp mfg electronic equip
761-1270
Big M Sport Products sports equip
mfr 663-9828
- 2310 Development Center (Udimet Powder
Div) research dept 665-0666

S INDUSTRIAL HWY 1979

S INDUSTRIAL HWY—Contd

- 2311 Hutzal Plumbing & Heating Co
665-9111
- 2331 Woodside Automotive Sales 665-4461
- 2401 Fel-Kran Plumbing & Heating Co
665-4494
- 2420 Ann Arbor Warehouse Co Inc
Bekins Van Lines 769-4100
Godfrey Moving & Storage Co
769-4100
- 2440 National Furnace Supply Co 761-5631
- 2455 B & B Copy Products data processing
sys 769-0777
Monarch Custom Painting 668-8100
Quality Stripping Service Inc 662-9878
- 2457 Lindsay Soft Water 665-5999
- 2457a Manimark Corporation vending
machines 761-5525
- 2459 De Koning Henry Constn Co 769-5870
- 2460 Schmidt E W Haight confr whol
663-4135
- 2464 P M O Incorporated plastics mfg
994-0762
- 2465 Shar Music Products 665-7711
American Case Co music instrument
cases mfrs 665-7711
M & M Distributing whol music instr
cases 665-7711
- 2500 Your Attic Storage stge whse
973-2212
- 2505 Hentschel Instruments Incorporated
mfg electronic testing equip 973-2505
-

S STATE ST 1979

1607 Folk Carl A © 663-5488	2575 Cooper Howard Volkswagen Inc 761-3200
1609 Berwald Patricia	2601 Perfect Optics Inc optom 662-6511
1611 Apartments	Michigan Interface Inc computer trng work processing 665-2426
1 Segal Jack K 668-6412	United Microsystems Corp computer retailing 668-6806
2*Mc Rae Brett J 662-0688	2721 Spear & Associates real est 994-0112
3*King Fred B 668-1612	2799 Vacant
4*Harju Kurt J	2800 Advance Interiors int dec 665-3606
5*Johnson David J 663-1039	Haven Real Estate 662-7200
6*Wakelin Donald 994-5307	Stephen Frame & Gallery painting frames 769-5183
7*Smith Carl	2801 Gill Clement C ins 761-6381
8*Visconti T	2803 White Paul Insurance Agcy 663-5447
9*Woods Ralph W 668-7977	Buckland Co Real Estate The 668-6777
10*Nemo T	2900*Golden Thos R 994-3931
11*Weidenbeck L 996-0437	2930 Ann Arbor Printing & Mailing Service prntg & dir mailing 994-0900
12*Rowlet Clifford A	2990 Ann Arbor Printing & Mailing Serv (Addn Sp)
STIMSON BEGINS	2991 Briarwood Shell gas sta 665-3200
GERNAEY PL BEGINS	3001 Wolverine Tower
A A R R CROSSES	Lobby Sycor (Reception Ofc)
1623 Ann Arbor News (whse)	Huron Valley National Bank 761-2211
1635 R L S Carpet Installation 663-4825	Floors
K & C Heating & Cooling Inc 668-6070	Ground Fl Smith-Hague & Co Inc stock exch 662-5535
Frog Holler prod distr 663-5067	Sycor Training Center
1641*Schaeffer Kevin 663-0187	Level Haircut-N-Such beauty shop 663-5994
1643 Hofmann's Furniture 761-0834	Level Joseph Sidney phys 663-9678
1645*Romo Raymond Jr 994-3069	Level Fransway Robt L phys
1675 Davis R E Construction Co 662-5523	Level Insurance Processing Service ins processing 662-7217
1680 Peacock Charles 761-7548	Level Sycor Education Center
1700 Ronny Peter 663-6131	Level Sykor Field Engineering Center
Doff Lawrence	Ground Fl Towers Restaurant The 994-4963
1710 Vacant	Ground Fl Sycor Inc (Reproduction Center)
1712*Zymko S	Ground Fl Conlin Travel Bureau Inc 769-9680
1717 Michigan American Ltd recycling 668-1707	4thfls Second-Fifth Floors Sycor Incorporated 995-1121
1720 Mackie Mary W Mrs 662-1914	Suites
2007 Cubecraft Furniture Makers Inc 662-7446	600 Comshare Inc (Addn Sp)
2008 No Return	3 Davco Incorporated marketing 662-1717
2011*Dean Jonathan	605 K D Mills tech consultant 994-0224
*Long Jane	606 Selective Recruiting Associates professional recruiting 994-5632
2025 Elliott Kenneth H © 662-8218	607 Saunders Leasing System (Regional Ofc) tractors trks trailers leasing 994-8055
2027 Vacant	608 Schlitz Brewing Co 662-4455
2055 Ann Arbor Pipe & Supply Co (Br) plmb sups NO3-9335	700 Equitable Life Assurance Society Of U S 994-1100
2058 Cummins & Barnard Inc architects & engs 761-9130	701 Vacant
2075 Erakine Welding Shop 665-7149	703 Mutual Of Omaha 769-4610
2077 Michigan Irrigation Serv (Div Perfection Sprklr) pipes pumps sprinklers 761-5110	706 Weir Associates business broker 769-1615
Perfection Sprinkler Co Inc 761-5110	707 C S F Ltd (Br) hosp mgmt consultants 761-1846
2080 Daniels And Zermack Associates archts & eng 761-2090	8thfl Comshare Addl Space
D & Z Interiors (Div Daniels & Zermack Assocs) 761-2090	9thfl Comshare Incorporated 994-4800
2082 Cornell Morris Company Inc The realtors 769-9288	1001 Ann Arbor Associates realtors 994-5000
2084 Cornell Morris Co (Addn Sp)	1001 D & J Enterprises constn 994-5000
2096 Johnston Ralph W © 663-1045	1001 French Menson Paarouthakis Inc financial consultant 994-5023
2097 Lowe Kath M 662-1220	1001 J P & Company consultants 663-6749
2115 Carlton Oil Co 994-5540	1001 Andrus Robt O realtor 994-5000
2141-51 Gallup-Silkworth Co fuel oil distr 769-8100	1001 French Larry E financial consultant 994-5003
Gallup-Silkworth Co (Pump & Pantry Ofc)	1006 Sycor Inc (Addn Sp)
2154 Freedman Paul L 769-1709	10th Fl Sycor A Unit Of Northern Telecom 973-4000
2178 Anderson Albert R © 662-6009	3101 Bldg Under Constn
2190 Evans Tania 663-8435	3201 King Engineering Corp 662-5691
2204 Vacant	3230 Lucy Ray Standard 769-2555
2208 Le Furge Donald I © 662-6715	3267 Briarwood Mobil 994-9617
2210*Brown L	3501 Knapp's Bill Of Briarwood restr 668-8058
2240*Schroeder Thos 668-8223	3505 Wolverine Inn motel 665-3500
2244*O'Brien Molly V 663-6396	Mc Mullen Thos real est 665-3500
2245 Townsend & Bottum Inc constn contrs 761-3440	
2246 Vacant	
2271 Vacant	
2275 Vacant	
2279 Vacant	
2285 Ann Arbor Plastics Inc 994-3674	
2296 Golden Lady Hse Of Beauty Inc 665-4894	
2333 Englander Triangle Furniture Co (Br) 769-8040	
2390 Vacant	
2455 Tee And Ski Inc sports and equipment NO2-7307	
2500 Edwards Brothers Inc book mfg 769-1000	
2509 U A W Local 38 662-6448	
2511 Douglass Heating & Cooling 662-7957	
2555 Bd Of Educ (admn ofcs) 994-2200	

S INDUSTRIAL HWY 1974**INDUSTRIAL HWY S —FROM E
STADIUM BLVD SOUTH 1 EAST OF
ANN ARBOR R R****ZIP CODE 48104****1700 Way Baking Co (Br) whol bakers
662-3217****1910 Universal Car Wash 665-8123****1919 A & P Food Stores (Br) 668-9651****1935 Coca-Cola Bottling Co 665-3645****1950 Colonial Lanes bowling NO5-4474****Pin Room Colonial Lanes restr
NO2-3808****1956 Vacant****1958 Mister Stadium Coin Laundry****1965 Ecology Center Recycling Center
761-7263**

S INDUSTRIAL HWY 1974

S INDUSTRIAL HWY—Contd

- 1980 Army Reserve Center NO2-0566
 2000 City Utilities Dept 761-2400
 2025 Wolverine Supply Inc whol plmb sups
 665-9771
 2200 Ann Arbor Cleaning Supply Co 662-529
 Miller Martin water consultant 761-0300
 Wallaby Incorporated adv 663-3357
 Washtenaw Contractors Associates Inc
 genl contrs
 2216 Gross Lighting Center lighting fixtures
 665-8676
 2255 Ambassador Typewriter Service 668-7550
 2232 Co-Op Auto Rally Of Washtenaw Inc
 (Br) 769-0220
 2255 Parent's Pride Diaper Service 662-5933
 Republican Headquarters (Washtenaw
 County Comm) 662-2721
 2275 Stadium Tile Corp tile carpet rugs
 NO8-6762
 2280 Wedemeyer Electronic Supply Co whol
 sup 665-8611
 2304 Coin Meter Ann Arbor Co 662-5682
 2306 Lauvers adding mach sls & serv
 769-6630
 2308 Environmental Metrology Corp mfg
 electronic equip 761-1270
 Ann Arbor Prototype Inc sht mtl
 fabrications 769-3918
 2310 Federal-Mogul Corp (Metal Powder Div)
 research dept 665-0666
 2311 Hutzl Plumbing & Heating Co
 NO5-9111
 2331 Seven-Up Bottling Co (whse) 665-6626
 2401 Fel-Kran Plumbing & Heating Co
 665-4494
 2420 Elsifor Moving & Storage Co Inc
 761-2944
 Bekins Van Lines 769-4100
 Godfrey Moving & Storage Co 769-4100
 2440 National Furnace Supply Co 761-5631
 2455 Lindsay Soft Water 761-0050
 Porcelain Building Products Inc
 NO3-2407
 2459 De Koning Henry Constn Co 769-5870
 2460 Schmidt E W Co Inc confr whol
 663-4135
 2464 Thetford Co Inc 769-6000
 2465 K M S Fusion Inc thermonuclear laser-
 resendi 769-8500

S INDUSTRIAL HWY 1969

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INDUSTRIAL HWY S -FROM E STADIUM
BLVD SOUTH 1 EAST OF AARR

---ZIP CODE 48104

1700 WAY BAKING CO (BR) WHOL
BAKERS 662-3217

1910 UNIVERSAL CAR WASH 665-8123

1919 A & P FOOD STORES (BR)
665-8058

1935 COCA-COLA BOTTLING CO
665-3645

1950 COLONIAL LANES BOWLING
NO2-2655

PIN ROOM COLONIAL LANES RESTR
NO2-3808

1980 ARMY RESERVE CENTER NO2-0566

2000 CITY UTILITIES DEPT 761-2400

2200 HARPER ELECTRIC INC

ELECTRICAL CONTRS 662-8367
ANN ARBOR CLEANING CO JANITOR
SUPPLIES 662-5293

2216 GROSS LIGHTING CENTER
LIGHTING FIXTURES 665-8676

2232 WASHTENAW COUNTY LIBRARY
665-0683

2255 PARENTS PRIDE DIAPER SERVICE
662-5933

PRUDENTIAL INSURANCE 761-8255

YESSIAN C S AGENCY 761-8255

REPUBLICAN HEADQUARTERS
(WASHTENAW COUNTY COMM)
662-2721

2310 FEDERAL-MOGUL DIVISION METAL
POWDER PLANT 665-0666

S INDUSTRIAL HWY 1969

2311 HUTZEL PLUMBING & HEATING CO
NO5-9111

2330 GODFREY MOVING & STGE (WHSE)

2331 SEVEN-UP BOTTLING CO 665-6626

2401 KOCH & SONS HEATING INC
668-6975

ANN ARBOR FUEL INC FUEL OIL
663-3866

2420 ELSIFOR MOVING & STORAGE CO
INC 761-2944

GODFREY MOVING & STORAGE CO
769-4100

2440 NATIONAL FURNACE SUPPLY CO
761-5631

2455 PORCELAIN BUILDING PRODUCTS
INC NO3-2407

2460 SCHMIDT E W CO (WHSE)

2465 CIMCO DIVISION (TRILEX CORP)
MACH TOOLS NO3-3377

S STATE ST 1969

STATE ST S—CONTD
1609—CONTD

PARSONS MONTGOMERY
 1611 APARTMENTS
 1 BISBEE LELAND S 761-4586
 2 VACANT 769-3472
 3 MATTSON JAMES A 665-0440
 4 WAGNER DEBBIE 761-4161
 5 NYBAKKEN GEO
 6 NIEHAUS WM 761-3244
 7 ROBINSON CHARLES 761-4180
 8 PATTERSON BERNARD M 662-7157
 9 HOWARD KENNETH
 10 LINDGUIST CHARLES N
 662-5963
 11 NO RETURN
 12 ROBERTSON WM 761-9658
 ---STIMSON BEGINS
 ---GERNAEY PL BEGINS
 ---A A R R CROSSES
 1621 SEARS SERVICE & WAREHOUSE
 662-5501
 1623 ANN ARBOR NEWS (WHSE)
 1635 SINCLAIR REFINING CO NO2-4509
 1641 CALADO GEO C ●
 1643 HOFMANN'S FURNITURE REFINISH
 FURNITURE 761-0834
 MANTYK SURFACE GRINDING INC
 NO8-7828
 1645 MONTGOMERY JOHN 663-1796
 1675 DAVIS R E CONSTRUCTION CO
 662-5523
 1680 NO RETURN
 1700 WOZNIACK RUTH
 1709 VACANT
 1710 MC FADZEAN ALICE MRS ●
 NO8-7591
 1712 REED ALBERT JR 763-7473
 1717 ABBOTT OIL CO THE FUEL OIL
 NO2-2585
 1720 MACKIE MARY W MRS ● 662-1914
 2007 WHITE'S AUTO PAINT SHOP
 NO2-3350
 2008 HAIBEL LOUIS S ● NO3-7892
 2011 LIPTON JOEL 761-7131
 2025 ELLIOTT KENNETH H ● 662-8218
 2027 ELLIOTT TRUCKING CO INC
 NO3-4654
 2055 ANN ARBOR PIPE & SUPPLY CO
 PLMB SUPS NO3-9335
 2058 CUMMINS & BARNARD INC
 CONSULTING ENGS NO2-5638
 2075 ERSKINE WELDING SHOP NO5-7149
 ROLSTON HOWARD L
 2077 MICH IRRIGATION SERV (DIV
 PERFECTION SPRINKLER)
 NO2-0523
 PERFECTION SPRINKLER CO INC
 LAWN NO2-0523
 2080 DANIELS-ZERMACK ASSOCIATES
 ARCHTS & ENG 761-2090
 2082 LES STRANG ADVERTISING INC
 663-3346
 2096 JOHNSTON RALPH W ● 663-1045
 2097 GAUGER RICHD E NO2-0166
 2197 KREICK JOHN R 665-8075
 2115 MARATHON OIL CO NO8-8015
 2151 GALLUP-SILKWORTH CO INC FUEL
 OIL DISTR NO5-6161
 2154 HESELSCHWERDT RICHD A
 769-1715
 2155 VACANT
 2178 ANDERSON ALBERT R ● NO2-6009
 2179 NO RETURN
 2190 VACANT
 2191 EDDY WM F & SON INC SEWER &
 WATER NO2-6797
 2204 HAHN LENA MRS ● NO3-5452

S STATE ST 1969

2205 VACANT
2208 LE FURGE DONALD I ● NO2-6715
2240 THOMPSON JAMES B ● NO3-0638
TOWNSEND PATRICIA R
2244 MOORE WARNER L
VOGEL RICHD 662-7034
2245 TOWNSEND & BOTTUM INC CONSTN
CONTRS 761-3440
2271 VACANT
2279 HAIGHT & CO INC PHOTOG SUPS
662-5551
2285 HERMAN MILLER RESEARCH CORP
APPLIED RESEARCH 668-7874
2295 GOLDEN LADY HOUSE OF BEAUTY
761-0742
2390 WILLIAMS JOHN 769-1422
2396 FAGAN WM
2455 TEE AND SKI SPORTS AND
EQUIPMENT NO2-7307
2500 EDWARDS BROS INC BOOK LITHO
769-1000
2509 U A W UNION LOCAL 38 662-6448
2511 NO RETURN
2555 AUTOMATION-FORESTER INC
SUBSIDIARY AUTOMATION IND
DATA PROCESSING 665-4407
2575 COOPER HOWARD VOLKSWAGEN INC
AUTO DLRS 761-3200

S INDUSTRIAL HWY 1964

**INDUSTRIAL HIGHWAY S—From E
Stadium blvd south, 1 east of AARR
Stimson ends**

1700 Way Baking Co 662-3217

1919 A&P Food Stores (br) gro
NO8-9569

1935 Coca-Cola Bottling Co 665-3645

1950 Colonial Lanes (Pinnacle Corp)
NO2-2655

1980 U S Army Reserve Center
NO2-0566

2000 City Utilities Dept NO2-6583

2005 Fisher Dale Associates photog
NO2-4221

2200 No return

2310 Fed Mogul Div Research & De-
velopment No 2 662-4585

2331 7-Up Bottling Co (whse) NO5-6626

2401 Koch & Sons Distributors Inc
NO2-1552

Scheve & Koch Heating Inc
NO3-2416

2455 Porcelain Bldg Products Inc
NO3-2407

2465 Plastex-Div of Trilex Corp plastic
moulding NO3-3137

Cimco Engineering Co (Trilex
Corp) mach tools NO3-3377

S STATE ST 1964

STATE S--Contd

1441 Penpraze Ronald K © NO3-4640
 1445 Wanamaker Richd O © NO5-6269
Rose av begins
E Stadium blvd intersects
 1501 Mangan Aug M © NO8-8173
 1505 Buning Harm © NO2-2685
 1515 Lum Henry G © NO8-8506
 1517 Edwards Clifford NO3-7297
 1521 **Fairway Lodge Apartments**
Apartments:
 101 No return
 102 Nolan Maurine H Mrs NO2-0325
 201 Liscombe Robt D NO5-6756
 202 Disher Marie E 663-9829
Henry begins
 1601 Levine Gordon 663-4335
 1605 Rasmussen Holger J © NO3-2083
 Briegel Gary NO3-5434
 1607 Harding Mary M Mrs © NO3-5488
 1609 No return
City limits
Stimson begins
Gernaey pl begins
AARR crosses
 1621 Burroughs Corp (AA Laby)
 665-3681
 1623 Ann Arbor News (whse)
 1635 Sinclair Refining Co (br) oils
 NO2-4509
 Wolverine Tire Co NO2-0422
 1641 Calado Geo C © NO3-0471
 1643 Mantyk Surface Grinding NO8-7828
 1645 Riciputi Remo H 663-1796
 1675 R-X Oil Co distr NO3-8375
 Davis R E Constn Co bldg contr
 662-5523
 1680 Butters Jerrold L 663-5571
 1700 Rickelmann Jas A © NO2-9519
 1709 Gallup-Silkworth Co Inc (stge)
 Blue Ribbon Coal 668-6332
 1710 McFadzean Alice Mrs © NO8-7591
 1712 Gransden Orlo P
 1717 Abbott Oil Co fuel oil NO2-2585
 1720 Mackie Mary W © NO2-1914
 2007 White's Auto Paint Shop NO2-3350
 2008 Haibel Louis S © NO2-9892
 2011 Wilson C Carl 665-3251
 2025 Elliott Kenneth H © NO3-4654
 2027 Elliott Trucking Co NO3-4654
 2055 AA Pipe & Sup Co plmb sup
 NO3-9335
 2058 Cummins & Barnard Inc consulting
 engs NO2-5638
 2075 Erskine Welding Shop NO5-7149
 2077 Perfection Sprinkler Co Inc
 NO2-0523
 Michigan Irrigation Serv (Div of
 Perfection Sprinkler Co Inc)
 irrigation equip mfrs NO2-0523
 2096 Johnston Ralph W © 663-1045
 2097 Haib Izzeddin 662-5282
 2115 Marathon Oil Co NO8-8015
 2151 Gallup-Silkworth Co Inc oil burners
 NO5-6161
 2154 Vacant
 2155 Vacant
 2178 Anderson Albert R © NO2-6009
 2179 Sheridan Jas NO3-5611
 2190 Erickson Marlowe NO3-6918
 2191 Eddy Wm F & Son Inc sewer contrs
 NO2-6797
 2204 Hahn Lena Mrs © NO3-5452
 2205 Jackson Jamerson
 Phillips Earl 665-2587
 2208 LeFurge Donald I NO2-6715
 2240 Thompson Jas B © NO3-0638

S STATE ST 1964

2244 Myles Harold
2245 Townsend & Bottum Inc bldg contrs
NO2-2501
2275 Engle Jerry Garage Bldrs
NO3-4150
Engle Gerald E © NO3-4150
2279 Haight & Co Inc photo sups
NO2-5551
2295 Town & Country Boarding Kennel
NO3-7200
2390 Gutekunst Walter © NO3-8143
2396 Hinterman Werner © NO8-6409
2455 Tee & Ski Inc sporting equip
NO2-7307
2500 Edwards Bros Inc prntrs NO2-6545
Edwards J W Inc publ
2509 Weid Stainless Steel fabricators
NO5-6358
Weid Jack R © NO5-6358
2511 Bennett Margt F Mrs © NO3-0438
2585 Miller Herman Inc (research div)
NO8-7874

S INDUSTRIAL HWY 1960

14

**INDUSTRIAL HIGHWAY S— From E
Stadium blvd south 1 east of AARR
Stimson ends**

1919 A & P Super Mkt gro

2000 Frisinger rd contr ΔNO3-4271

2005 Vacant

Harpst begins

2455 Porcelain Bldg Products Inc

ΔNO3-2407

✓

S STATE ST 1960

1641 Calado Geo C @ ΔNO3-0471
 1643 Genovese's Inc appliance repr
 ΔNO2-7657
 Mantyk Surface Grinding
 ΔNO8-7828
 1645 No Return
 1680 Cushing John A @ ΔNO2-4916
 1700 Rickelmann Jas A @ ΔNO2-9519
 1709 Gallup-Silkworth Co Inc (stge)
 1710 McFadzean Wm @ ΔNO8-7591
 1712 Harvey Garry P
 1717 Abbott Oil Co ΔNO2-2585
 1720 Freeland Harold G @ ΔNO8-8040
 2007 White's Auto Paint Shop
 ΔNO2-3350
 2008 Haibel Louis S @ ΔNO2-9892
 Findlay Virginia Mrs ΔNO2-9892
 2011 White Owen W @ ΔNO2-3550
 2025 Elliott Trucking Co ΔNO3-4654
 Elliott Kenneth H @ ΔNO3-4654
 2055 Edwards Bros Inc (whse)
 2058 Cummins & Barnard Inc engs
 ΔNO2-5638
 2075 Erskine Welding Shop
 ΔNO5-7149
 2077 Michigan Irrigation Serv (div of
 Perfection Sprinkler Co Inc)
 ΔNO2-0523
 Perfection Sprinkler Co
 ΔNO2-0523
 2096 Hollister Richd T @ ΔNO8-8885
 2097 Chapman Rose Mrs ΔNO5-5066
 2115 Ohio Oil Co (br) ΔNO3-4195
 ΔNO8-8015
 Ohio Oil Co (whse)
 2141 Gallup-Silkworth Co Inc fuel oil
 ΔNO5-6161
 Automotive Sup Co auto parts
 ΔNO3-0554
 2154 Fahrner Fredk ΔNO2-0514
 2155 Davis R E Constn Co ΔNO2-5523
 2178 Anderson Albert R @ ΔNO2-6009
 2179 Lawrence Bertha B Mrs @
 ΔNO2-5804
 2190 Hoesl Wilhelmina Mrs
 ΔNO3-1054
 Wahr Paul J jr ΔNO2-1628
 2191 Eddy Wm F (stge yd) ΔNO2-6797
 2204 No Return
 2205 No Return
 2208 Lefurge Donald I @ ΔNO2-6715
 2240 Thompson Jas P @ ΔNO3-0638
 2244 Vacant
 2245 Townsend & Bottum Inc bldg
 contrs ΔNO2-2501
 2275 Engle Jerry Garage Bldrs
 ΔNO3-4150
 Industrial Box Co ΔNO3-4150
 Engle Gerald E @ ΔNO3-4150
 2390 Gutekunst Walter @ ΔNO3-8143
 2396 Hinterman Werner @
 ΔNO8-6409
 VanderArk Condon ΔNO5-6971
 2500 Edwards Bros Inc prntrs
 ΔNO2-6545
 2509 Weid Stainless Steel fabricators
 ΔNO8-8142
 2511 Bennett Margt F Mrs @
 ΔNO3-0438

S STATE ST 1955

1607△Harding Pliny B ©
 △Hill Rose Mrs
 1609△Craig Harvey R
 City limits
 Stimson begins
 Gernaey pl be-
 gins
 AARR crosses
 1615 Crumley Howard M
 1621 Argus Camera Inc
 (wlse)
 1623 Ann Arbor News
 (wlse)
 1635△Sinclair Refining
 Co oils
 △Wolverine Tire Co
 1641△Calado Geo C ©
 1643 Vacant
 1645△Bassett Leslie R
 Armbruster Walter
 R ©
 1675 Gulf Refgr Co
 (wlse)
 1680△Mortensen Marian
 Mrs ©
 1700△Rickelmann James
 A ©
 1709△Blue Ribbon Coal
 Co
 1710△McFadzean Wm ©
 1712△Faircloth Ellis O
 © pntr
 1717△Pure Oil Co The
 △Abbott Oil Co The
 1720△Freeland Harold G ©
 2007△white's Auto Paint
 Shop
 2008△Haibel Louis S ©
 △Findley Clyde
 2011 White Owen W ©
 2025△Elliott Kenneth H
 ©
 Elliott Trucking Co
 2055 No Return
 2075△Erskine welding &
 Steel Fabricat-
 ing
 2077△Michigan Irrigation
 Service
 2096△Hollister Richd D T
 ©
 2097△Anderson Norbert
 O
 Evans Philip
 2115△Ohio Oil Co The
 2141△Gallup-Silkworth
 Oil Co
 △Gallup A W Co
 2151△Miller Donald L
 baker
 2154△Belknap Olney G
 2155△Standifer James w
 ©
 2178△Anderson Albert R
 ©
 2179△Lawrence Bertha B
 Mrs ©
 DeVries Donald
 2191△Eddy Wm F sewer
 contr
 2193 Lewis & Frisinger
 (repr shop)

S STATE ST 1955

STATE S—Contd

2204 Hoesel Albert F

2205 Vacant

2208△Lefurge Donald I

⊙

2240△Ally Carl

△Allison Alex

△Thompson James B

⊙

2244 Johnson Floyd

Vacant

2245△Townsend & Bottom

Inc contrs

2275△Engle Gerald E ⊙

Engle Jerry Garage

Industrial Box Co

2500△Edwards Bros Inc

photo lithograph-

ers

Edwards J W publr

S STATE ST 1951

1720△Freeland Harold G ◎
 1724△Rocco Domonick ◎
 1725△Sheldon Wm E
 △White Owen ◎
 1729△Elliott Kenneth H ◎
 1745△Edwards Bros Inc
 photo lithograph-
 ers
 1765△Perfection Sprinkler
 1772△Hollitster Richd D T ◎
 1773△Laitinen Paul O
 △Rudelich Saml ◎
 1774△Belknap Olney G ◎
 1775△Miller Donald ◎ tailors
 1777△Texas Co The oil distrs
 1778△Anderson Albert ◎
 1779△Ditmar Jerry ◎
 1780△Hoesel Albert
 1781 Eddy Wm F (whse)
 1784△Hahn Albert E ◎
 1785△Jarrett Melvin L
 1786△Defurge D I ◎
 1791△Townsend & Bottum
 Inc contrs
 1795△Tompkins Eug E ◎
 pntr
 1798△Thompson Jas B ◎
 1798 McLean R T

**Waters rd inter-
sects**

2800△Crobalt Inc tool mfrs

**Ellsworth rd inter-
sects**

2990△Snow C B & Son htg
contrs

△Snow Dale C ◎

4320△Ann Arbor Aero Serv

△Ann Arbor Municipal
Airport

S STATE ST 1942

1615△Houghtalin Paul J
 1619 Vacant
 1635△Sinclair Refg Co oils
 1641△Wahr Julius A ◎
 1643△Shanahan Augustus D coal
 1645△Struble Kenneth A
 1649 Gulf Refg Co (bulk sta)
 sw cor△University of Mich Golf Club
 1680△Cooch Harry E ◎ sheet metal wkr
 1700△Cooch Wm ◎
 1709△Eldred Wm C coal
 1710 McFadzean Wm ◎
 1712△Yahr Chas B
 1713-17△Abbott Gasoline Co The
 1720 Donegan Christopher L ◎
 1724 Godfrey Benj N
 Penn Ross G
 1725 Vacant
 1729 Cooch Albert E ◎
 1772△Hollister Richd D T ◎
 1773△Cooch Alf T ◎
 1774△Belknap Olney G ◎
 1777△Texas Co The oils
 Fuel Oil Service Co
 A A Laboratory Animals
 △Adams A Wayne
 1778△Eckerle Alf W ◎
 1779 Tolles Richd A
 1780△Meader Geo L ◎
 1784 Hahn Albert E ◎
 1785 Macomber Sophia Mrs ◎
 1786 Nettle Marion
 1795△Tompkins Eug E ◎ pntr
 1798△Thompson Jas B ◎
 △Menefee Chas C
 Young Leonard H
Waters rd intersects
 3191 Lyons Bertha K
 3501△Floral Distributing Co
Ellsworth rd intersects
 4320△Ann Arbor Air Service
 △Ann Arbor Municipal Airport

S STATE ST

1937

STATE S—Contd

1779 Lewis & Frisinger Co road
contrs

Frisinger Construction Co
Frisinger Land Co

1780 Meader Geo

1784 Hahn Albert

1785 Macomber Sophia Mrs ©

1786 Wilkinson Ole

1795 Hamlin Theo H

1798 Thompson Sarah L Mrs

4320 Ann Arbor Air Service

Ann Arbor Municipal Airport

S STATE ST 1932

1779 Lewis & Frisinger Co genl
contrs

1780 Vacant

1784 Hahn Albert E

1785 Macomber Alf G

1786 Fuller Henry J

1795 Vacant

1798 Thompson Sarah L Mrs

1884 Kitchen David

1835 Herrst John W

2001 April Clarence J
Flo Flying Services Inc
Ann Arbor Municipal Airport

Industrial Property
2000 South Industrial Highway
Ann Arbor, MI 48104

Inquiry Number: 6868191.3

February 22, 2022

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

02/22/22

Site Name:

Industrial Property
2000 South Industrial Highway
Ann Arbor, MI 48104
EDR Inquiry # 6868191.3

Client Name:

ATC Group Services LLC
46555 Humboldt Drive
Novi, MI 48377
Contact: Andrew Temerowski



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ATC Group Services LLC were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # BC58-4FCB-AE72
PO # NA
Project 188DD22012

UNMAPPED PROPERTY

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



Sanborn® Library search results

Certification #: BC58-4FCB-AE72

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

The Sanborn Library LLC Since 1866™

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APPENDIX H
PRIOR ASSESSMENTS

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APPENDIX I
RESUMES

Andrew Temerowski

Project Scientist

OFFICE LOCATION

Novi, Michigan

EDUCATION

BS, Biology and Environmental Studies, Western Michigan University, 2003

CERTIFICATIONS

Environmental Professional per EPA's "All Appropriate Inquiry Rule"

40-Hour Hazardous Waste Operations and Emergency Response Certification (OSHA)\8-Hour Refresher

State of Michigan Asbestos Inspector (#A38677)

State of Michigan Lead Inspector/Risk Assessor (P-06300)

HIRE DATE

5/2021

EXPERIENCE PRIOR TO JOINING ATLAS

15 years

EXPERIENCE & RESPONSIBILITIES

Andrew has over 15 years of experience in the environmental consulting field and is a Project Scientist with experiences that include assessment projects consisting of Phase I Environmental Site Assessments (ESAs), Phase II Subsurface ESAs, Baseline Environmental Assessments (BEAs), Due Care Plans (DCPs), Transaction Screens, as well as National Environmental Policy Act (NEPA) checklists, environmental assessments (EAs), and hazardous material assessments. He has conducted hundreds of assessments. He also conducts property risk evaluation and surveys for asbestos containing materials, lead, and mold.

PROJECT EXPERIENCE

Phase I/ Phase II Environmental Site Assessments (ESAs)

Completed Phase I ESAs, some of which have included asbestos and lead based paint sampling. Types of ESAs include:

- Commercial and light industrial properties throughout Michigan.
- Various industrial / manufacturing / automotive facilities throughout Michigan.
- Retail businesses and restaurants throughout Michigan.
- Numerous parcels of undeveloped property of various sizes in Michigan.
- Agricultural properties and farmsteads in rural areas of Michigan.
- Apartment complexes and hotels throughout Michigan and Ohio.

Environmental sampling and monitoring activities for a variety of projects including soil, groundwater, gas, and surface water. Types of sampling and monitoring projects include:

- Numerous soil and groundwater investigations completed at undeveloped properties, farmsteads, automotive related properties, commercial and light industrial businesses, and residential properties.
- Soil, soil gas and groundwater sampling events at various commercial properties and adjacent to landfills in Michigan.

Asbestos Building Surveys - Michigan

- Asbestos Building Inspector for residential and commercial buildings. Conducted survey of buildings, including bulk sampling, quantification of asbestos containing material, and preparation of inspection reports.

Various Telecommunications Clients - Michigan

Completion of environmental compliance associated with build-outs at new and existing cellular telecommunication towers and structures. Environmental services include:

- Phase I and Phase II Environmental Site Assessments.
- National Environmental Policy Act (NEPA) Evaluations required by the Federal Communications Commission (FCC).
- Asbestos and lead assessment surveys of buildings and structures.
- Client specific defined Scope of Works to address Business Environmental Risks.



Gerard DeBusschere, CPG

Sr. Project Manager – Novi, Michigan

OFFICE LOCATION

Novi, Michigan

EDUCATION

BS. Geology, Wayne State University, 1973

Additional related seminars and classes (1992 – 2005)

CERTIFICATIONS

American Association of Petroleum Geologists (AAPG)

Certified Professional Geologist, AAPG#5369

Licensed Professional Geologist, State of Tennessee #2440

Certified Underground Storage Tank Professional State of Michigan #697

Certified DEQ Waterworks System Operator, Classification D-5, S-5 #16145

OSHA 29 CFR 1910.120 40-Hour / OSHA Annual 8-Hour Refresher

DOT 49 CFR 172.704 Hazardous Material Transport

Certified Adult CPR and First Aid

Behavioral Based Safety Training

Smith System® Driver Improvement Course

HIRE DATE

03/2017

EXPERIENCE PRIOR TO JOINING ATLAS

39

EXPERIENCE & RESPONSIBILITIES

Gerard serves as Senior Project Manager in ATC's Novi, Michigan office. He has diverse experience in the environmental and petroleum industries. As Senior Project Manager, Gerard is responsible for client interfacing, compliance review, regulatory reports, and work plans. As a professional geologist, he demonstrates a balanced scientific approach in conducting site investigations by integrating geology, geophysics, and environmental science.

During Gerard's years of experience in the environmental field, he has conducted Phase I and Phase II Environmental Site Assessments (ESAs), Baseline Environmental Assessments (BEAs), and Due Care Plans, as well as provided oversight for leaking underground storage tank (LUST) site assessments and closures.

PROJECT EXPERIENCE

Confidential Client, SW Michigan

The pipeline spill originated from a break in a 33" buried pipeline that transports crude oil from the Chicago area northeast through Michigan into Sarnia Ontario. The release originated in a wetland area and flowed overland until it reached a creek where it then flowed to the confluence of the creek and a major southwest Michigan river. Wrote, or co-wrote the following plans and/or operating procedures that guided the response activities and which were incorporated into larger plans that were submitted to the United States Environmental Protection Agency (USEPA), Region V on-scene coordinator and other regulatory and non-regulatory agencies: Health and Safety Plan, Sampling and Analysis Plan, Oil Capture, Containment and Recovery Plan, Decontamination of Personnel and Equipment Plan and decontamination tracking forms, Backfill Plan and a variety of standard operating procedures to be used for the implementation of the various plans. Provided coordination and oversight of a citizen/landowner interface team, to provide for rapid response inspection and sample collection services for residential or commercial properties that were affected by, or suspected of being affected by the spill.

2015 Environmental Services ISID, SE Michigan District, former Oakland Appliance

The scope of services was to provide professional design services for the investigation/installation of a vapor intrusion (VI) mitigation system. ATC designed and installed a VI mitigation system design to provide a long term solution to address elevated VOC (TCE) concentrations in soil gas. Based on ATC's evaluation of the data, a cost

effective, two part design solution was developed, with a passive VI mitigation system in the eastern 2/3 of the site building, and an active system consisting of three suction points and a sized extraction fan to create negative sub-slab pressures in the western portion of the building. A

2017 Tank and Soil Removal ISID

Managed thirteen (13) Tank and Soil removal projects on behalf of EGLE/RRD between October 2017 and January 2021. Sites were identified by EGLE/RRD, and ATLAS acted as the primary contractor overseeing the excavation, transport and disposal of the orphan tanks and any associated impacted soils. Soil verification samples were collected from each excavation and project summary report was prepared for each.

Brownfield Redevelopment Project, Taylor, Michigan

Conducted Phase I and II ESAs at a former auto parts manufacturing facility and, based on the results of the Phase II ESA, determined that the site qualified as a facility. Prepared a Category N BEA and applied for Brownfield funding for the site. The BEA was subsequently affirmed, and grant monies awarded, which provided for the demolition of the former manufacturing facility and cleanup of the site. Provided environmental oversight during demolition of abandoned manufacturing facility. Prepared Remedial Action Plan (RAP) to obtain site closure for client.

Industrial Facility, Phase I and II ESAs, Due Care Plan, Hexavalent Chromium Assessment, South Haven, Michigan

Performed Phase I and II ESAs and, based on the results of the Phase II ESA, determined that the site qualified as a facility. Although client



did not qualify for BEA protection, prepared a Section 7a Due Care Plan for the site.

Brine Release Investigation, Tuscola County, Michigan

Provided oversight and management for the delineation of a brine plume using non-intrusive, geophysical methods. Confirmed the plume outline by installing groundwater monitoring wells; initiated the annual groundwater monitoring program. Prepared and submitted annual reports to the MDEQ, Office of Oil, and Gas & Minerals. Designed and submitted the brine recovery remediation system to client.

Confidential Client, Annual Water Quality Testing and Reporting, Various Sites, Michigan

Provide oversight and management for confidential client of annual water quality testing and reporting for seven Type II non-transient public water systems.

Confidential Client, Semi-Annual Discharge Sampling and Reporting, Detroit, Michigan

Assist confidential client comply with requirements for discharge to the Detroit Water and Sewerage Department (DWSD) combined system. Requirements include semi-annual sampling, the compiling of discharge data, and the submission of a Six-Month Report to the DWSD.

Confidential Client, Underground Utility Vault Cleanouts, Detroit, Michigan

Assist confidential client with scheduled and/or emergency responses to requests for vault cleanout to provide a clean and healthy work environment for client personnel. Vault cleanout requires confined space entry.

Various Clients, LUST Sites, Michigan

Provided consulting services for confidential insurance company who's trucking company client had overfilled an UST system, creating a release. Planned and provided oversight for the removal of three USTs, the excavation and disposal of a total of 3,380-tons of contaminated soil, the installation of a 3-compartment, fiberglass storage tank to replace the original system, and the restoration to the site to its original contours. Prepared a closure report which resulted in the successful closure of the release.

Petroleum Spill, Chesterfield Township, Michigan

Provided consulting services for confidential insurance company whose trucking company client had overturned a tank truck on I-94 in Chesterfield Township, spilling 4,000-gallons

of gasoline. Planned and provided oversight for the excavation and disposal of a total of 2,543-tons of contaminated soil; planned and conducted a subsurface investigation to verify that all impacted soil and groundwater had been successfully removed; prepared a closure report which resulted in the successful closure of the release.

Phase I ESA, Former MC (PC) ROW, Saline, Michigan

Performed site reconnaissance, historical research, and report preparation for former Michigan Central (Penn Central) right-of-way through the Village of Saline, Michigan. Recommended Phase II ESA based on adjoining property usage.

Oryx Energy/Sun E&P Company, Gulf of Mexico and Michigan

Responsible for subsurface geological characterization (site assessment) integrating geological and geophysical data. Conducted feasibility and risk assessment to determine degree of corporate participation. Coordinated and provided oversight for well construction, including lithology descriptions, porosity determinations, and water table elevations for proper screen placement. Prepared project summary reports documenting findings for client and Michigan Department of Natural Resources (MDNR).

ANR Storage Company, Michigan, Kansas, Texas

Responsible for subsurface geological characterization (site assessment) integrating geological and geophysical data. Designed and coordinated the construction of leak detection monitoring (observation) wells. Provided oversight for monitor (observation) well and injection well construction, including lithology descriptions, porosity determinations, and water table elevations for proper screen placement. Evaluated annual monitoring data to determine migration rate of hydrocarbon plume. Prepared project summary reports documenting findings for client and MDNR.



APPENDIX J

SCOPE OF WORK

SCOPE OF SERVICES

The proposed Phase I ESA will be conducted in accordance with American Society for Testing and Materials (ASTM) E1527-13 “Standard Practice for Environmental Site Assessments”. The Phase I ESA will also reference Natural Resources and Environmental Protection Act (NREPA), PA 451 of 1994, as amended where applicable. The purpose of the ESA will be to render an opinion of the likely presence of recognized environmental conditions (RECs) associated with the subject property at the time of the reconnaissance. The scope of the ESA will include the following:

- An evaluation of the physical setting characteristics of the subject property through a review of reference sources such as United States Geological Survey (USGS) topographic maps and geologic, soils and/or hydrologic reports and/or maps.
- An evaluation of the usage of the subject property, adjoining properties and the surrounding area through a review of reasonably ascertainable historical sources such as land title records, fire insurance maps, city directories, aerial photographs, prior reports, and interviews with knowledgeable persons.
- Observations regarding current subject property use and conditions, including the generation, use, treatment, storage and/or disposal of hazardous substances, petroleum products, hazardous wastes, non-hazardous solid wastes and/or wastewater.
- Observations regarding the use of adjoining and surrounding area properties and the likely impact of known or suspected releases of hazardous substances or petroleum products from those properties onto the subject property.
- Procurement and review of a commercial regulatory database report of environmental records for the subject property and area sites within the applicable search radii specified by the ASTM standard.
- A Tier 1 Vapor Encroachment analysis in accordance with ASTM E2600-15.
- Preparation of a written report that will include findings, opinions, conclusions, and supporting documentation.

The scope of services also includes consideration of the following items that are beyond the scope of ASTM E1527-13:

- A visual inspection of safely and readily accessible areas for suspect asbestos containing materials will be performed.
- A visual inspection of safely and readily accessible areas for suspect lead based paint will be performed.

- A visual inspection of safely and readily accessible areas for suspect microbial growth will be performed.
- A desktop review of readily available lead in drinking water information will be performed.
- A desktop review of readily available radon information will be performed.
- A desktop review of readily available flood plain information will be performed.
- A desktop review of readily available wetlands information will be performed.
- Identification of potential compliance issues noted during the reconnaissance and/or notices of violations, excursions, corrective action orders or fines/penalties identified in associated with the subject property within the last ten (10) years that are recorded in the Files of any federal, state or local agency with jurisdiction over any environmental permit or licenses.



APPENDIX K
LABORATORY REPORTS

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APPENDIX L
OTHER SUPPORTING DOCUMENTATION

Andrew Temerowski

From: Kulhanek, Matthew <MJKulhanek@a2gov.org>
Sent: Wednesday, March 9, 2022 9:21 AM
To: Andrew Temerowski; Hall, Jennifer (Housing Commission); Steglitz, Brian
Subject: [EXTERNAL] RE: AA Proposal 2000 South Industrial Highway PHI

[External Email] This email originated from outside of the Atlas mail system. Please use caution when opening attachments.

Andrew,

Please see my comments in red font below. I have limited knowledge of the site but shared what I can. Thanks.

Matthew J. Kulhanek
Fleet & Facilities Manager
City of Ann Arbor | Guy C. Larcom City Hall | 301 E. Huron, 6th Floor · Ann Arbor · MI · 48104
734.794.6312 Office | Internal Extension 43113
mjkulhanek@a2gov.org | www.a2gov.org

From: Andrew Temerowski <Andrew.Temerowski@oneatlas.com>
Sent: Tuesday, March 08, 2022 3:18 PM
To: Hall, Jennifer (Housing Commission) <JHall@a2gov.org>; Kulhanek, Matthew <MJKulhanek@a2gov.org>; Steglitz, Brian <BSteglitz@a2gov.org>
Subject: RE: AA Proposal 2000 South Industrial Highway PHI

Some people who received this message don't often get email from andrew.temerowski@oneatlas.com. [Learn why this is important](#)

This message was sent from outside of the City of Ann Arbor. Please do not click links, open attachments, or follow directions unless you recognize the source of this email and know the content is safe.

Hello Brian/Matt,

Just wanted to pick up with this email and Jennifer's earlier update regarding the PHI at 2000 S. Industrial. We have some of the information, but if you can provide a summary of the property details that would be helpful. Please see the previous questions and some from today's site visit.

Thank you for your time. Andrew

What fleet maintenance activities take place at the site? **There are no City Fleet maintenance operations at the site. If the AAHC is doing fleet maintenance at the site, they will have to respond accordingly.** When did fleet maintenance stop? **The City's Fleet maintenance operations have never been located at this site.**

What type of evidence does the Fire Department store on-site in the pole-building? **Unknown, would need to check with AAFD.**

There are stockpiles of soil with debris (i.e., concrete/asphalt) on the southern portion of the site. Where are the stockpiles from? I was at the site yesterday and saw a small pile of mixed debris (near a bunch of traffic cones) on the south end. As the site is used by many City Units and occasionally contractors working on behalf of the City, determining the origin will be difficult. I'm unaware of the source of the materials. What entity? Unknown.

I am requesting any information in the use of the property including historical or current releases or staining on-site; the presence of fill dirt; underground and aboveground storage tanks; vent pipes or fill pipes; hazardous waste generation or chemical/petroleum product storage at the subject property; the presence of pits, ponds or lagoons on-site; historical use; environmental liens/activity use limitations, pending lawsuits or other conditions at the subject property that might be expected to environmentally impact the site, as well as the existence of prior reports (Phase I Environmental Site Assessments, Phase II ESA, Geotechnical Reports, Baseline Environmental Assessment (BEA), Asbestos or LBP studies for the subject property.

How are you associated with the property and for how long?

Who is the current owner of the property? City of Ann Arbor – Utilities

How long have they owned the property/what periods and whom did you purchase/grant the property from? Since the mid-1960's, continuous ownership. Unknown seller.

Who were the previous tenants at the building/property?

Were there any previous structures on the property?

Are there any waste streams generated at the property? Who and how often does the general refuse get removed from the property? Any evidence of dumping on the property?

Are there any monitoring wells on the property? Yes, Atlas currently has monitoring wells on the site.

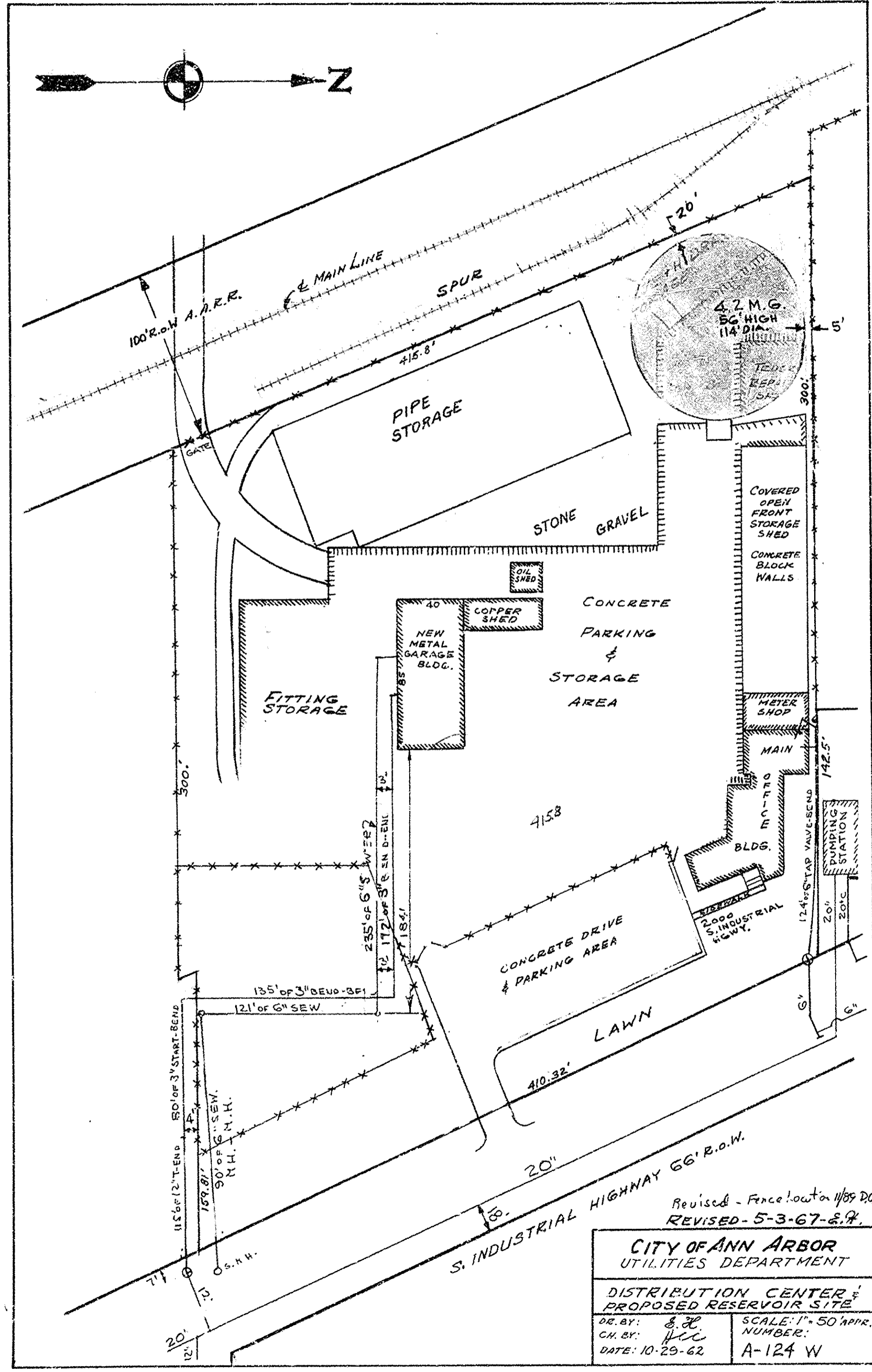
Finally, who supplies or what are the current parcel utilities (i.e., electrical, water, gas, storm, sewer, etc) available for the property and does the parcel's storm water discharge into the municipal storm/sanitary system? Water/sewer – City of Ann Arbor, Electric/gas – DTE, Storm – unknown.



Andrew Temerowski
Project Scientist
O: 248.669.5140 C: 269.599.3693

From: Hall, Jennifer (Housing Commission) <JHall@a2gov.org>
Sent: Tuesday, February 22, 2022 8:51 AM
To: Andrew Temerowski <Andrew.Temerowski@oneatlas.com>; Kulhanek, Matthew <MJKulhanek@a2gov.org>; Steglitz, Brian <BSteglitz@a2gov.org>
Cc: Olivier, Timothy <TOlivier@a2gov.org>; Forsyth, Doug <DForsyth@a2gov.org>
Subject: [EXTERNAL] RE: AA Proposal 2000 South Industrial Highway PHI

[External Email] This email originated from outside of the Atlas mail system. Please use caution when opening attachments.



Revised - Fence location 1/16/69 D.C.
 REVISED - 5-3-67 - E.H.

CITY OF ANN ARBOR
 UTILITIES DEPARTMENT

**DISTRIBUTION CENTER &
 PROPOSED RESERVOIR SITE**

DR. BY: E.H.
 CH. BY: J.C.C.
 DATE: 10-29-62

SCALE: 1" = 50' approx.
 NUMBER:
 A-124 W



A.A.R.R.

SPUR

4.2 M.G.
56' HIGH
114' DIA.
GRD. STORAGE
RESERVOIR

PIPE
STORAGE

MANHOLE
MATT'L
STONE
GRAVEL

COVERED
OPEN
STORAGE
SHED

OIL
SHED

COLD PATCH
STORAGE

NEW
METAL
GARAGE
BLDG.

CONCRETE

FITTING
STORAGE

PARKING
&
STORAGE
AREA

METER
SHOP

TOP SOIL
STORAGE

OFFICE
BLDG. E

PUMP
STA.

20'
GATE

CONCRETE DRIVE
(PARKING AREA)

2,000
S. INDUSTRIAL
HWY.

LAWN

LAWN

SOUTH INDUSTRIAL HWY 66' R.O.W.

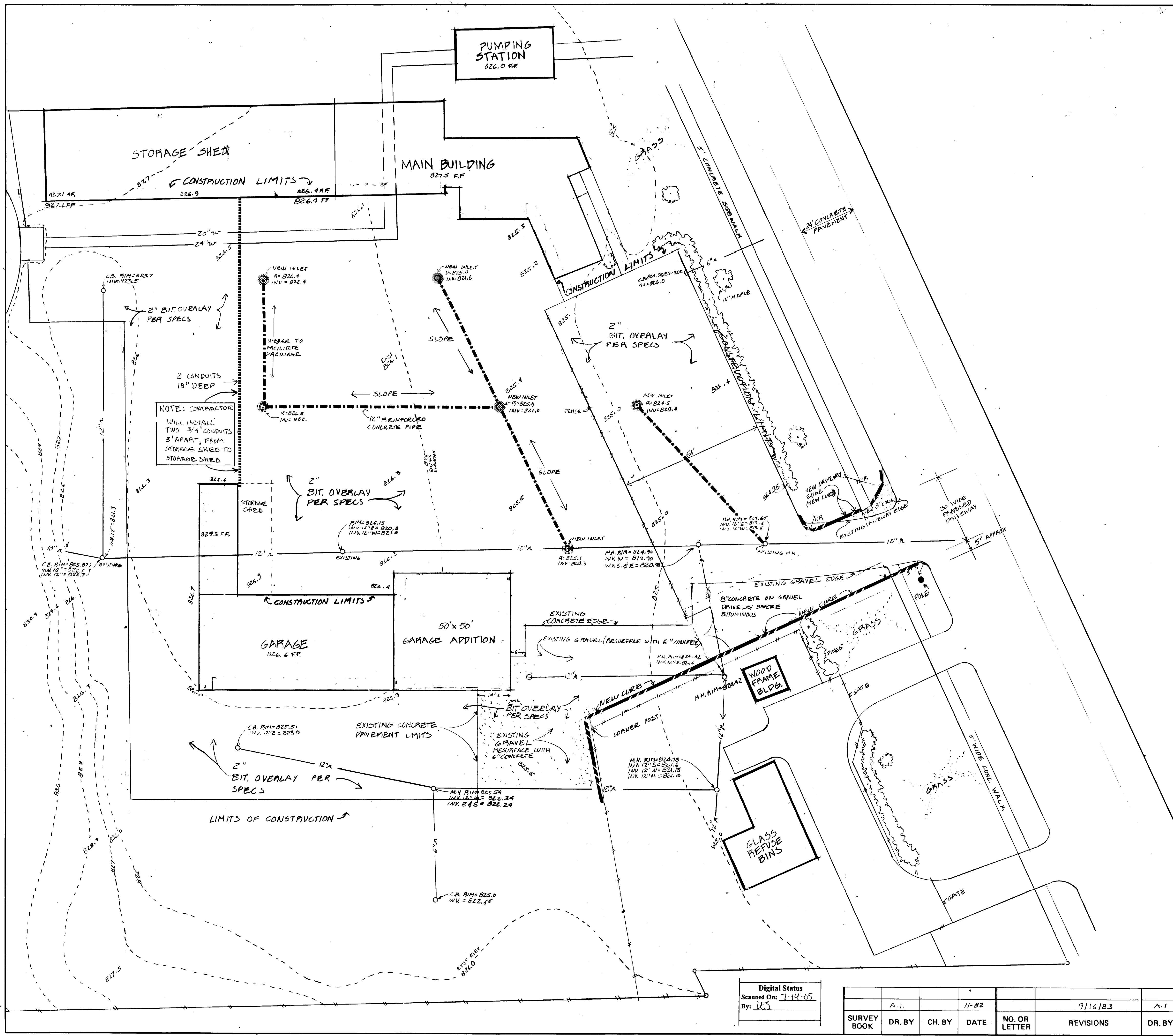
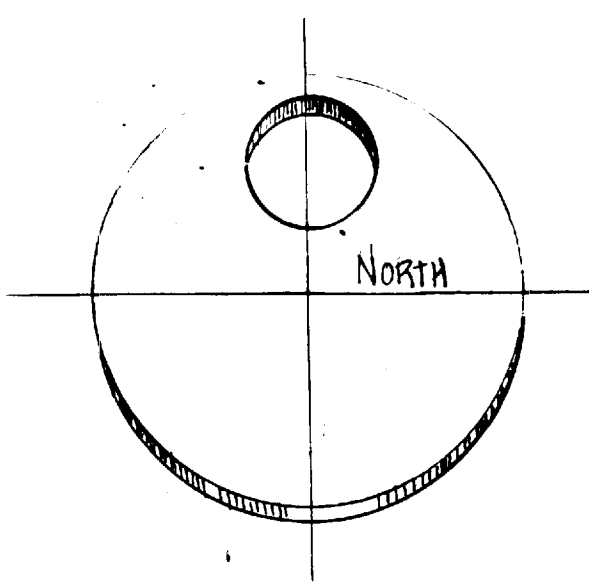
ROSEWOOD

SCALE 0 20 50 100 FEET

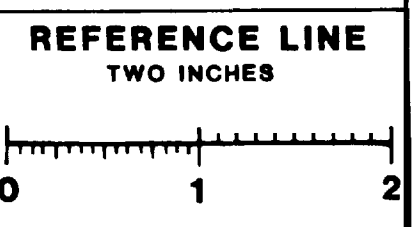
CITY OF ANN ARBOR
UTILITIES DEPARTMENT

SITE PLAN FOR S. INDUSTRIAL
HWY. GROUND RESERVOIR

SCALE	1"=100' APPROX.	DATE	REV.	AUTH. NO.
DR-BY	<i>S.J.C.</i>	2-24-69		A-396W
CH-BY	<i>JET</i>	2-26-69		



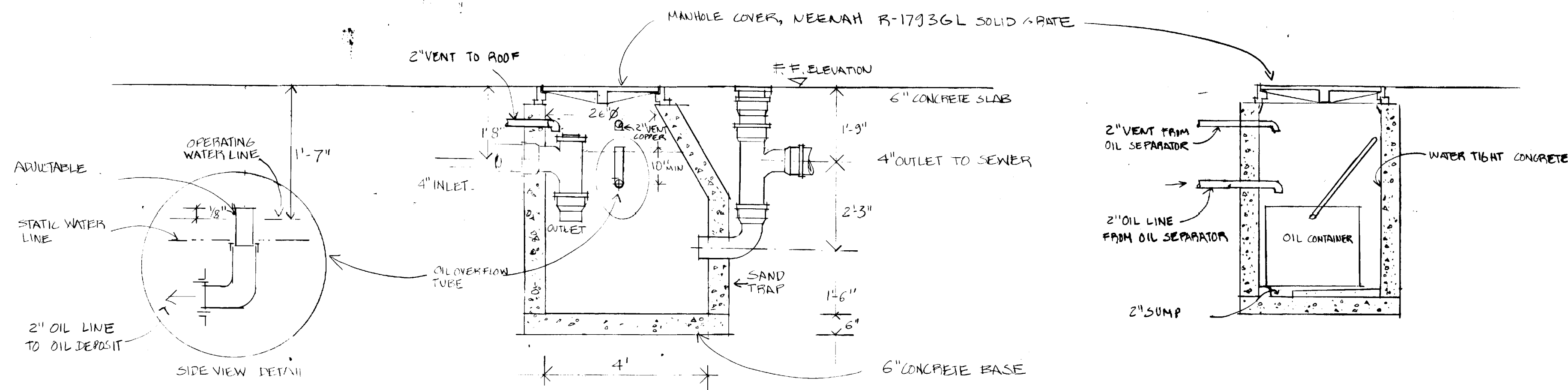
NOTE: THE INTENTION OF THIS PLAN IS TO ILLUSTRATE THE SCOPE OF THE PROJECT ONLY. A DETAILED PLAN WILL BE MADE AVAILABLE BEFORE CONSTRUCTION.



ENGINEERING DEPARTMENT - CITY OF ANN ARBOR			
DISTRIBUTION CENTER IMPROVEMENTS			
2000 S. INDUSTRIAL HIGHWAY			
SCALE			
HORZ.	1" = 20'		
VERT.	NONE		
INCH	1" = 1/8" (vertical)		
DRAWING NO.			
80010 - A-1			
SHEET NO. 1 OF 1			

Digital Status
Scanned On: 7-14-05
By: LES

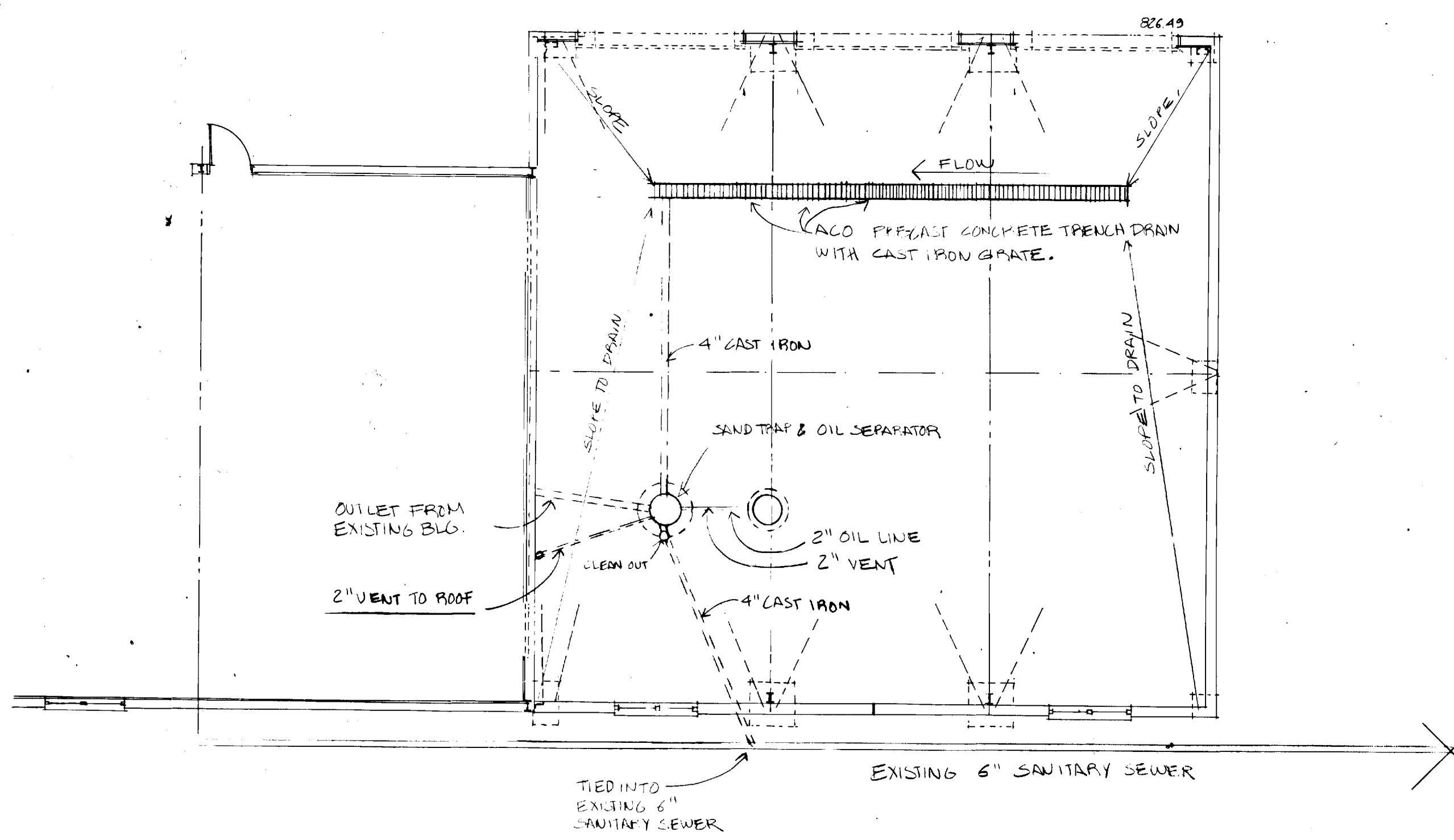
SURVEY BOOK	DR. BY	CH. BY	DATE	NO. OR LETTER	REVISIONS	DR. BY	DATE
	A.I.		11-82		9/16/83	A.I.	



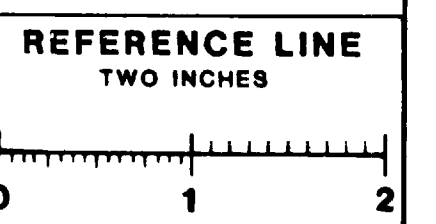
OIL INTERCEPTOR DETAIL

SCALE 1" = 2'

OIL DEPOSIT DETAIL



INTERIOR DRAINAGE PLAN



Digital Status
Scanned On: 7-14-05
By: LES

SURVEY BOOK	DR. BY	CH. BY	DATE	NO. OR LETTER	REVISIONS	DR. BY	DATE
	A.S.		12/82				

ENGINEERING DEPARTMENT – CITY OF ANN ARBOR

UTILITIES MAINTENANCE GARAGE ADDITION

INTERIOR DRAINAGE PLAN

DRAWING NO. 80010-DP

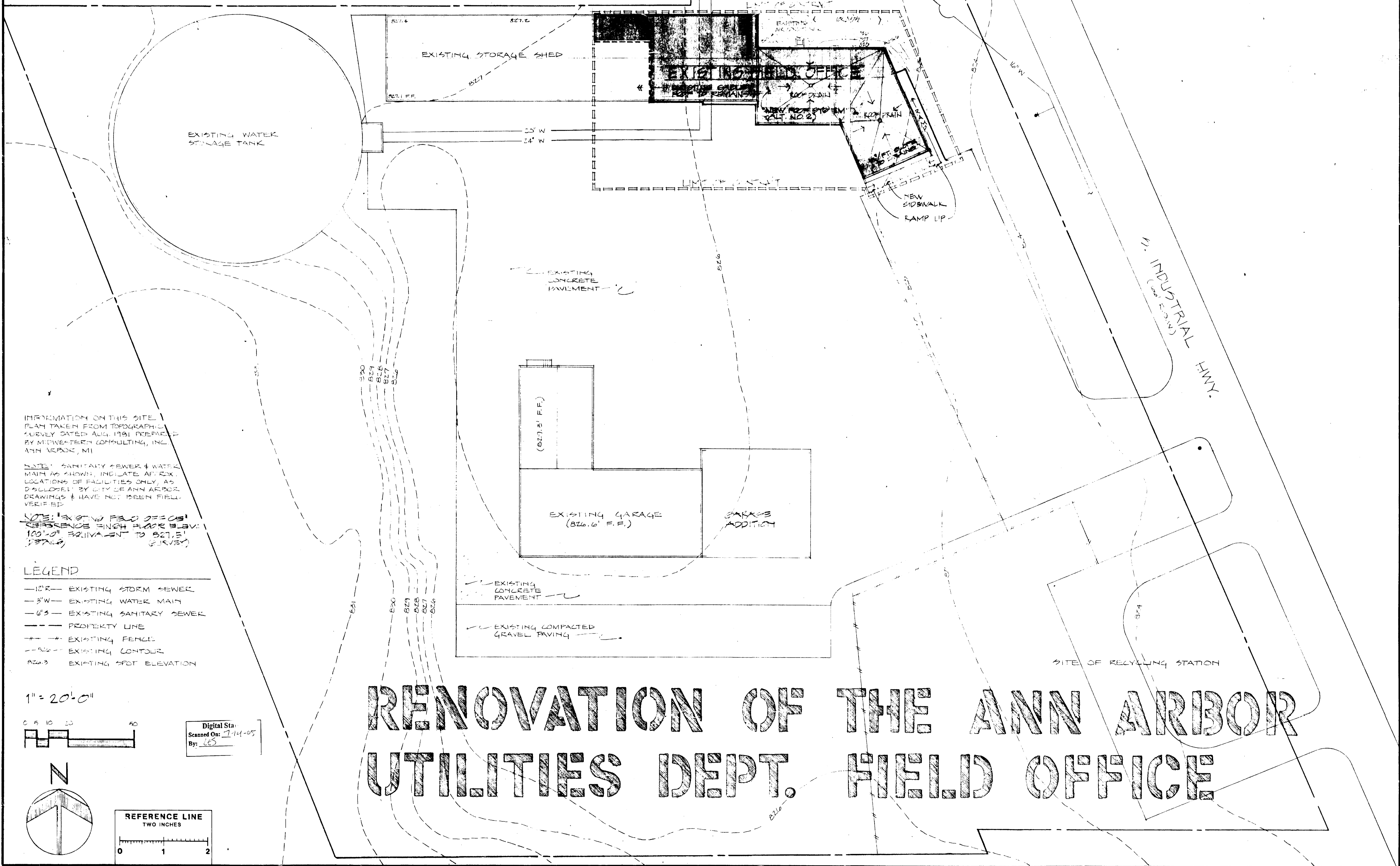
SHEET NO. 1 OF 1

FIELD

DMR 101M 840 7107

TABLE OF CONTENTS

- 80010 A-1 SITE PLAN
- 80010 A-2 DEMOLITION & FLOOR PLANS
- 80010 A-3 ELEVATIONS & SCHEDULES
- 80010 A-4 DETAILS
- 80010 ME MECH./ELEC. PLANS



INFORMATION ON THIS SITE PLAN TAKEN FROM TOPOGRAPHIC SURVEY DATED AUG. 1981 PERFORMED BY MIDWESTERN CONSULTING, INC. ANN ARBOR, MI

NOTE: SANITARY SEWER & WATER MAINS AS SHOWN, INDICATE APPROX. LOCATIONS OF FACILITIES ONLY, AS DISCLOSED BY CITY OF ANN ARBOR DRAWINGS & HAVE NOT BEEN FIELD VERIFIED.

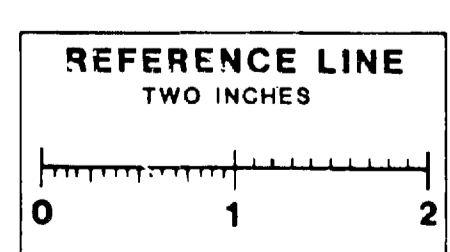
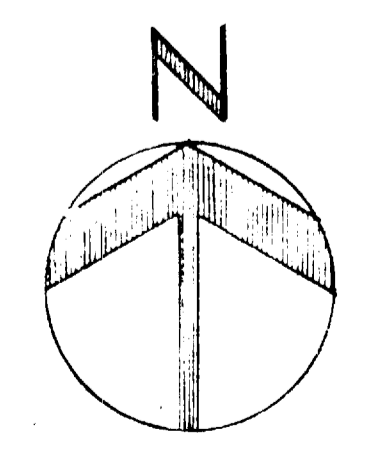
NOTE: EXISTING FIELD OFFICE REFERENCE FINISH FLOOR ELEV. EQUIVALENT TO 827.51 (SURVEY)

- LEGEND**
- 12" - EXISTING STORM SEWER
 - 3" - EXISTING WATER MAIN
 - 6" - EXISTING SANITARY SEWER
 - - PROPERTY LINE
 - - - - EXISTING FENCE
 - - - - EXISTING CONTOUR
 - 826.3 - EXISTING SPOT ELEVATION

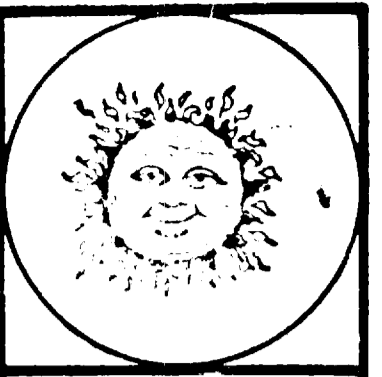
1" = 20'-0"



Digital Sta
Scanned On: 7-14-05
By: LGS



RENOVATION OF THE ANN ARBOR UTILITIES DEPT. FIELD OFFICE



SUN STRUCTURES
ARCHITECTS
201 E. LIBERTY ST., ANN ARBOR, MICH. 48104
313-994-5650

DRAWN BY: E.J.K.
CHECKED BY:
REVISIONS: 5-17-83 R.W.M.

SHEET TITLE: SITE PLAN
PROJECT TITLE: RENOVATION OF THE ANN ARBOR UTILITIES DEPT. FIELD OFFICE
2000 SOUTH INDUSTRIAL HIGHWAY ANN ARBOR MICHIGAN

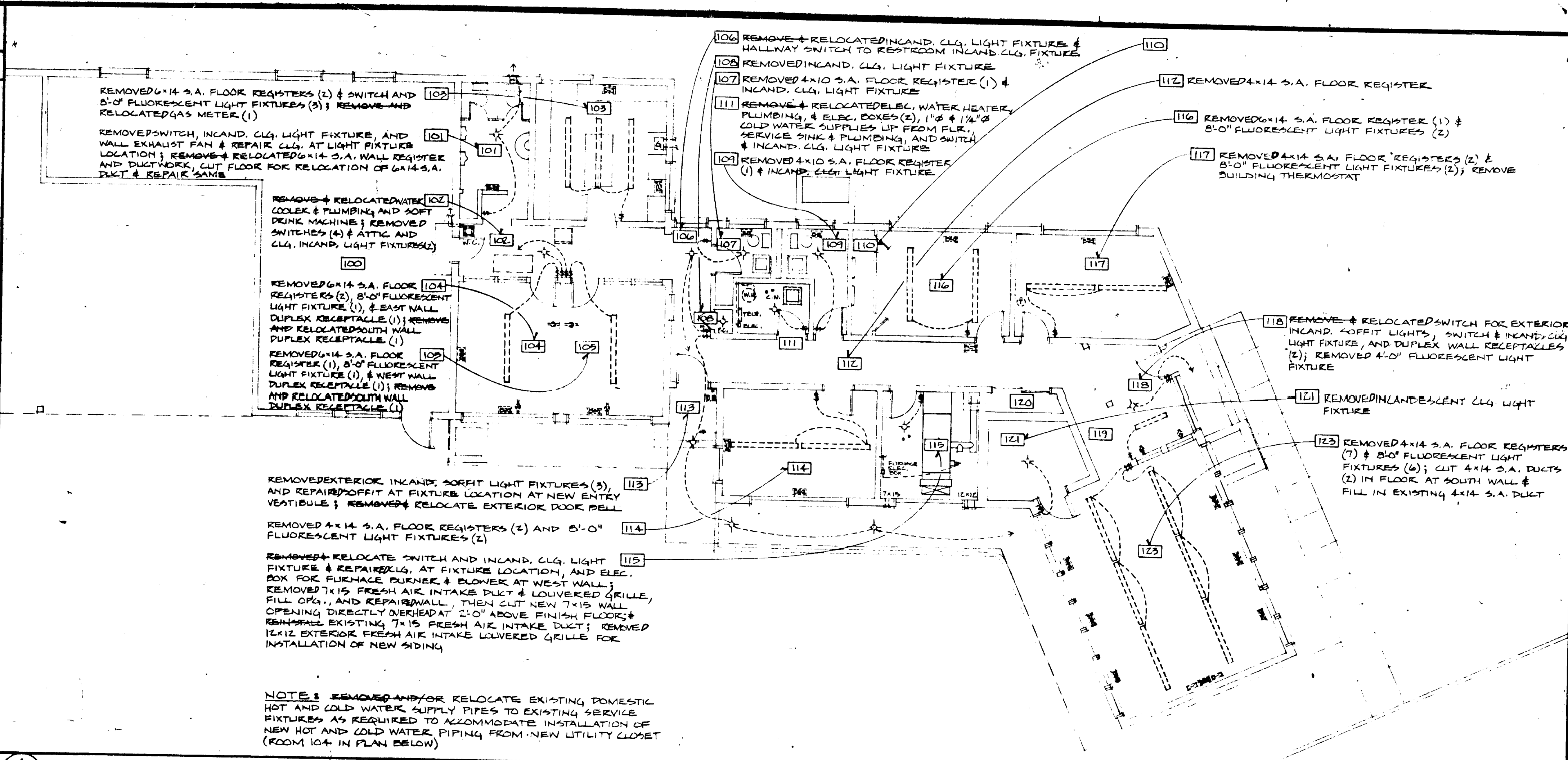


MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	COLD WATER SUPPLY LINES UP FROM CONCRETE SLAB
	COLD WATER PIPING
	HOT WATER PIPING
	FLOOR DRAIN
	SERVICE SINK
	SHOWER POLE W/ MULTIPLE SPRAY HEADS
	SANITARY DRAIN UNDER CONCRETE SLAB
	THRU-WALL FRESH AIR INTAKE DUCT W/ LOUVERED GRILLE
	CERAMIC TILE DUCTWORK UNDER CONCRETE SLAB
	SUPPLY AIR FLOOR REGISTER W/ ADJUSTABLE LOUVERED DAMPER
	EXTENDED S.A. DUCT & BASEBOARD S.A. REGISTER W/ LOUVERED DAMPER
	WATER COOLER
	KITCHENETTE SINK

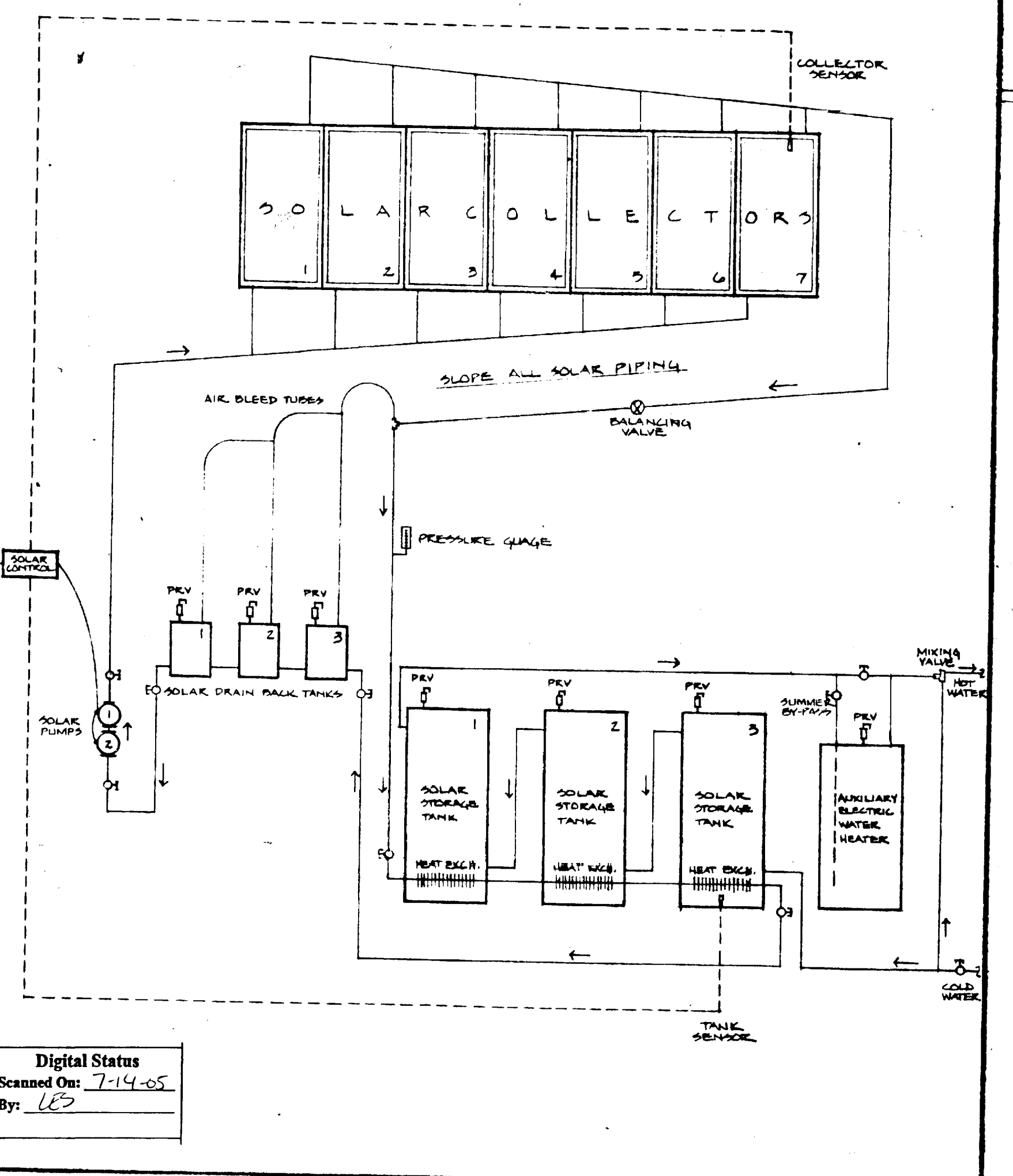
ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	DOOR BELL
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	DIMMER SWITCH
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE IN MASONRY
	SPECIAL RECEPTACLE
	CEILING MOUNTED EXHAUST FAN
	BUILDING THERMOSTAT
	INSULATING CURTAIN MOTOR
	INSULATING CURTAIN FRESH REMOTE BULB SENSOR
	INSULATING CURTAIN CONTROLLER W/ MANUAL OVERRIDE SWITCH
	ELECTRICAL BOX
	SURFACE MOUNTED INCANDESCENT LIGHT FIXTURE W/ PULL CORD
	SURFACE MOUNTED INCANDESCENT LIGHT FIXTURE
	RECESSED MOUNTED INCANDESCENT LIGHT FIXTURE
	RECESSED MOUNTED WATERPROOF INCANDESCENT LIGHT FIXTURE
	SURFACE MOUNTED INCANDESCENT TRACK LIGHTS
	SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE - 1 LAMP
	SURFACE MOUNTED WALL WASH FLUORESCENT LIGHT FIXTURE - 1 LAMP
	RECESSED 2'x4' FLUORESCENT LIGHT FIXTURE - 4 LAMPS
	SURFACE MOUNTED 4'x4' FLUORESCENT LIGHT FIXTURE - 8 LAMPS
	TELEPHONE PANEL IN WALL CABINET
	DUPLEX RECEPTACLE AND EXISTING WALL CLOCK 5'0" ABOVE FIN. FLR. (A.R.F.)
	WALL MOUNTED EXIT LIGHT

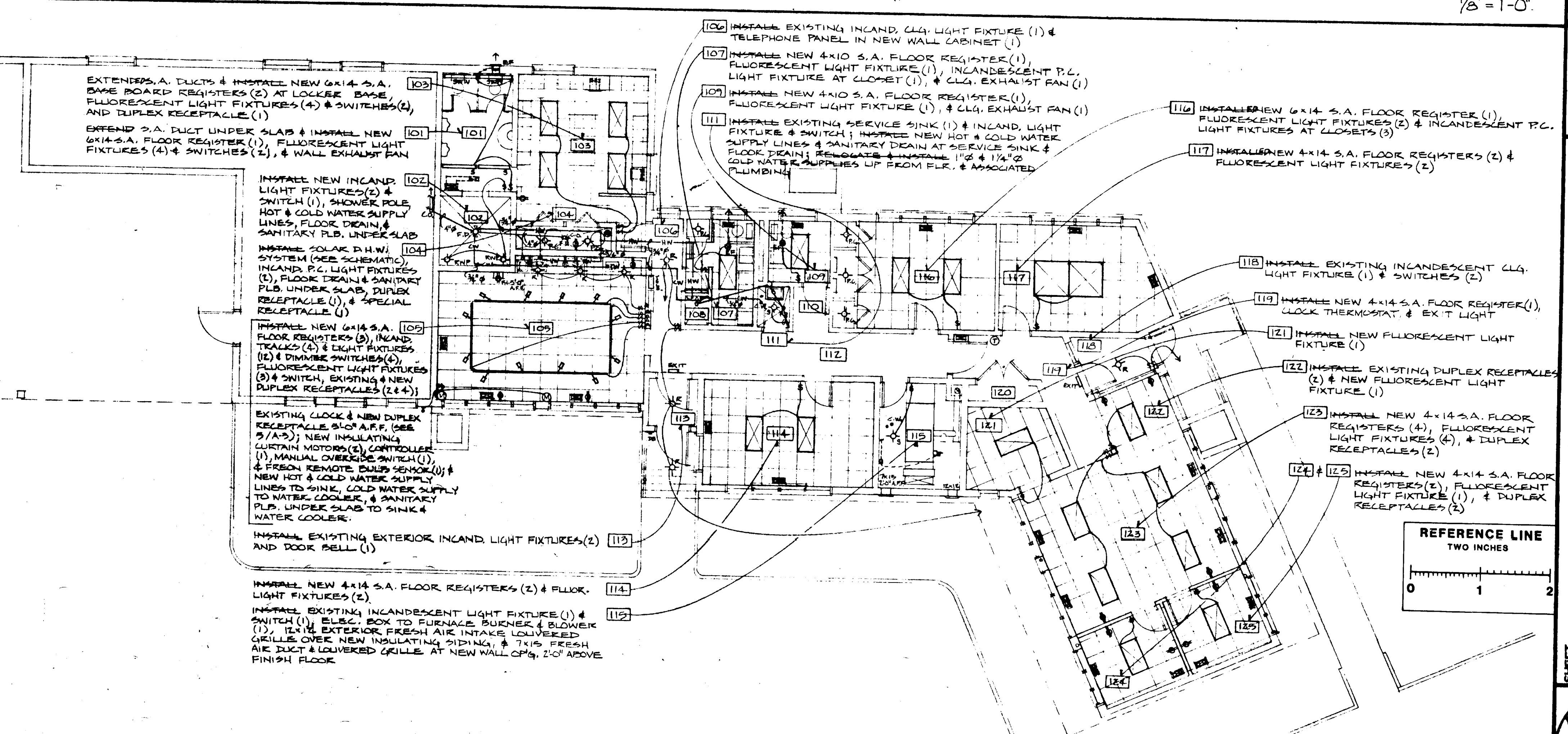


1 ME EXISTING FLOOR PLAN / MECHANICAL/ELECTRICAL DEMOLITION PLAN

1/8" = 1'-0"



2 ME DRAIN BACK SOLAR DHW SYSTEM SCHEMATIC



2 ME REMODELLED FLOOR PLAN / MECHANICAL/ELECTRICAL REMODELLING PLAN

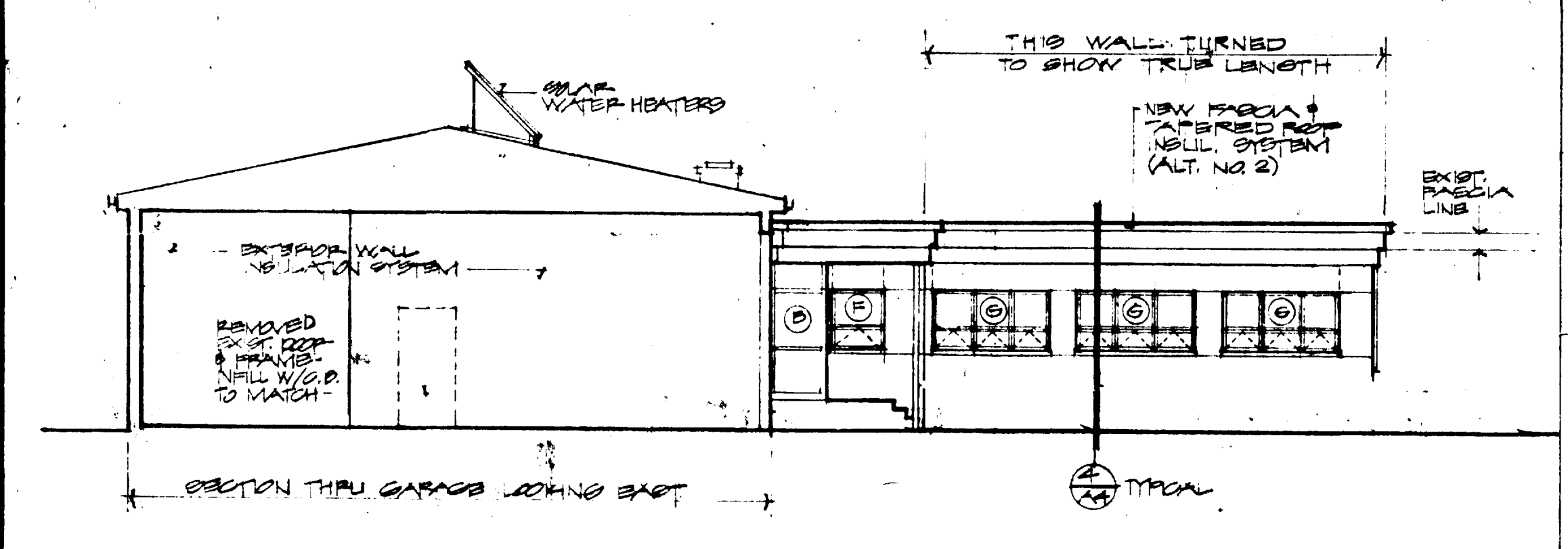
1/8" = 1'-0"

SUN ARCHITECTURES
ARCHITECTS
201 E. LIBERTY ST. #100
ANN ARBOR, MI 48104
313-964-5650

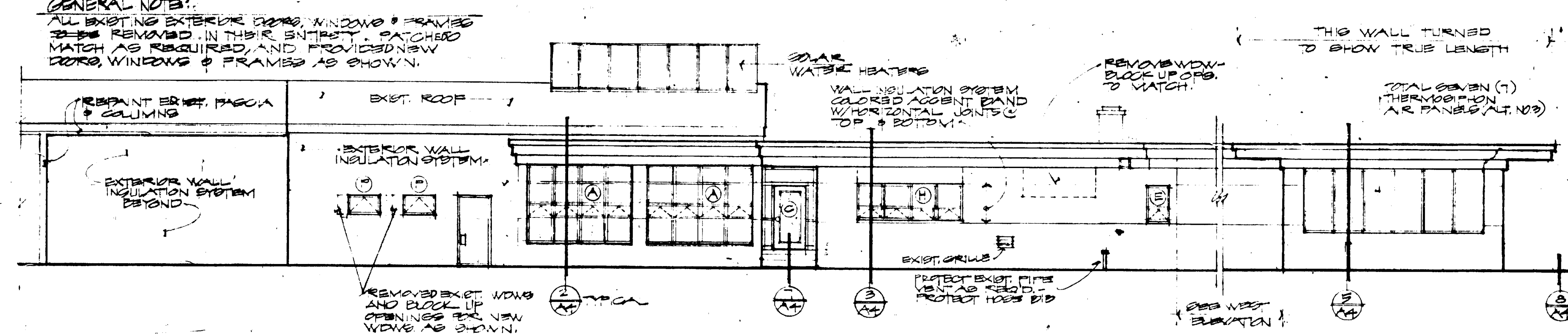
DRAWN BY: E. J. K.
CHECKED BY:
REVISIONS: 1. 12.03
2. 17.03 R.W.M.

MECHANICAL/ELECTRICAL PLANS
RENOVATION of the ANN ARBOR UTILITIES DEPT. FIELD OFFICE
PROJECT TITLE: 2000 SOUTH INDUSTRIAL HIGHWAY ANN ARBOR, MICHIGAN

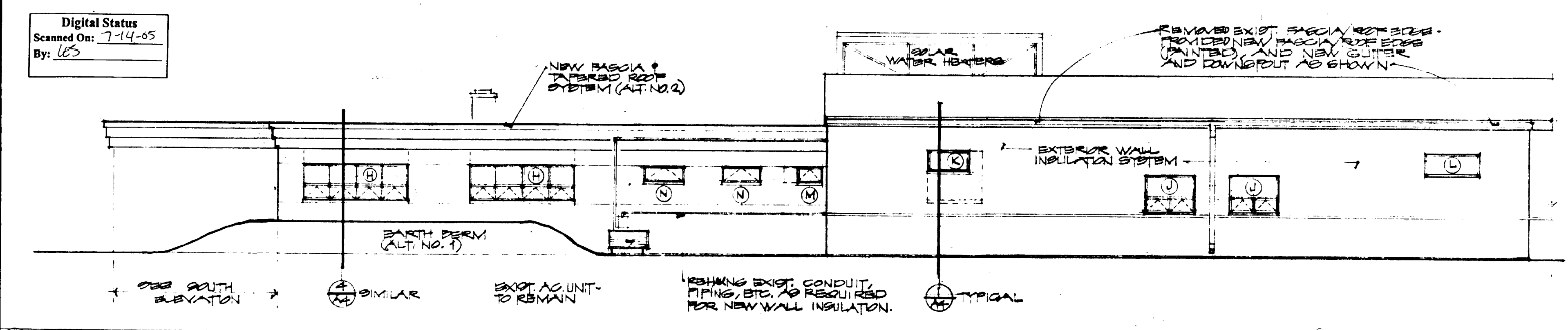
SHEET
ME
80010



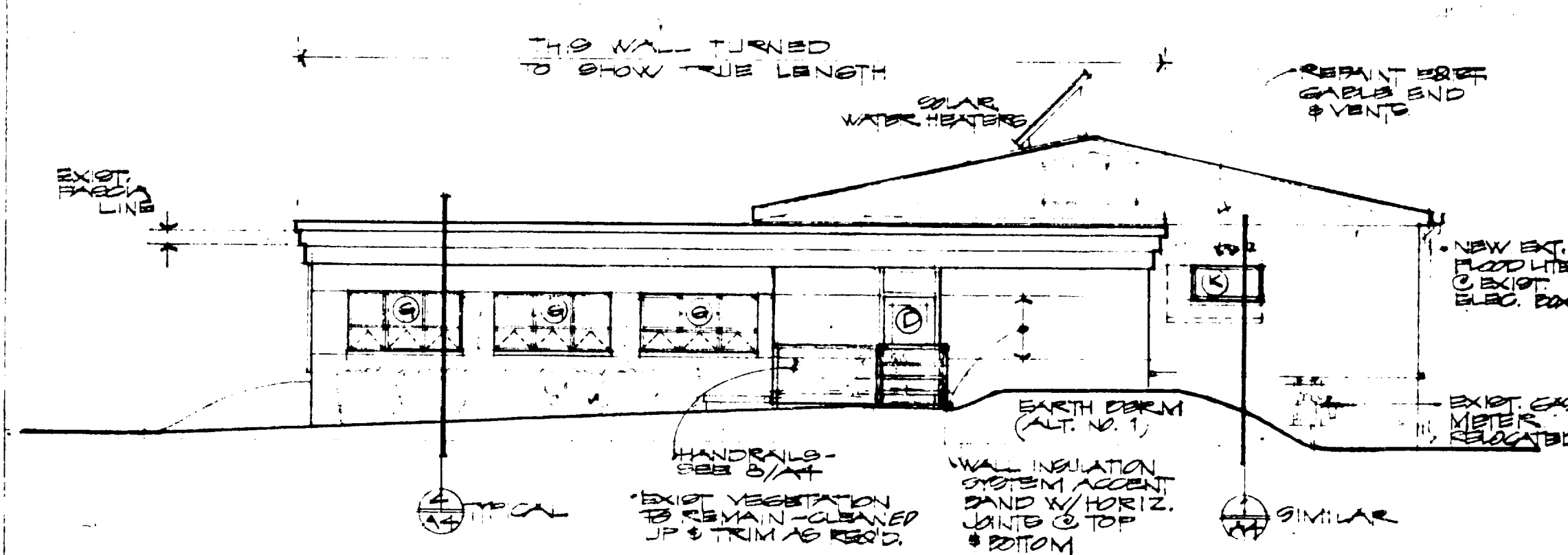
WEST ELEVATION



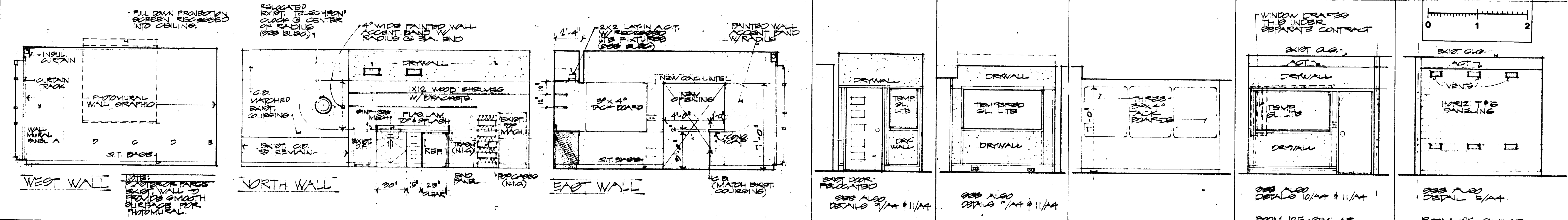
SOUTH ELEVATION



NORTH ELEVATION



EAST ELEVATION



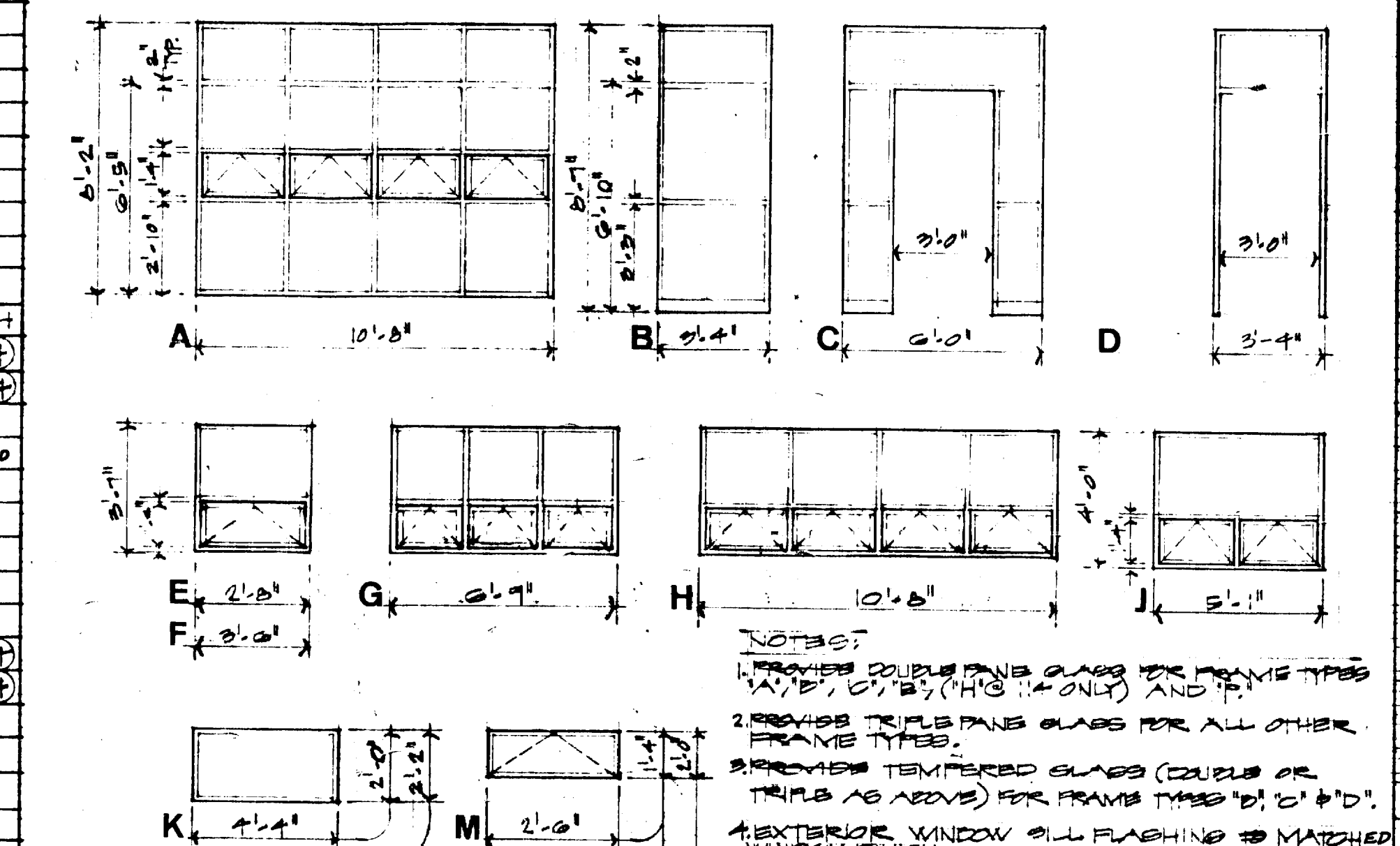
INTERIOR ELEVATIONS / ROOM 105 / 'LUNCH ROOM'

DOOR SCHEDULE

DR. NO.	DOOR SIZE	DOOR TYPE	FRAME TYPE	REMARKS
01		OMITTED		OMITTED
02	EXIST.	EXIST.	* EXIST. *	* CLEAN & REFINISHED
03	EXIST.	EXIST.	* EXIST. *	* CLEAN & REFINISHED
04	FR. 2'X6'	SG. FLUSH BIRCH	* WOOD *	* 1 HR. FIRE-RATED
05	FR. 2'X6'	"	"	"
06	2'X6'	"	"	"
07	2'X6'	"	"	* WITH DOOR CLOSER
08	1'X6'	"	"	"
09	3'X6'	"	"	* HANDICAPPED ACCESSIBLE
10	EXIST.	EXIST.	"	* RELOCATED JANITOR DOOR, REFINISH
11	3'X6'	SG. BIRCH W/ FULL GLASS	* WOOD *	* TEMPERED INSUL. GLASS
12	3'X6'	ALUM. W/ FULL GLASS	* ALUM. *	"
13	EXIST.	EXIST.	* EXIST. *	* CLEAN & REFINISHED
14	EXIST.	EXIST.	* WOOD *	* RELOCATED AS SHOWN / REFINISHED
15	EXIST.	EXIST.	"	* REVERSE SWING / REFINISHED
16 A & B	EXIST.	EXIST.	* EXIST. *	* CLEAN & REFINISHED
17	FR. 2'X6'	SG. FLUSH BIRCH	* WOOD *	* CUT IN NEW FRAME / MATCH EXIST.
18	EXIST.	EXIST.	* EXIST. *	* CLEAN & REFINISHED
19	3'X6'	SG. BIRCH W/ FULL GLASS	* WOOD *	* TEMPERED GLASS
20	FR. 2'X6'	SG. FLUSH BIRCH	* EXIST. *	* PATCH & MATCH AS REQ'D.
21	EXIST.	EXIST.	* WOOD *	* RELOCATED AS SHOWN / REFINISHED
22	3'X6'	ALUM. W/ FULL GLASS	* ALUM. *	* TEMPERED INSUL. GLASS
23	EXIST.	EXIST.	* WOOD *	* REMOVED EXIST. PATCH TO EXIST.
24	2'X6'	SG. FLUSH BIRCH	* WOOD *	* SEE 9/A & B
25	2'X6'	"	"	"

NOTE: 1. WOOD DOORS ARE 1 3/4" THICK.
 2. ALUM. DOORS ARE PART OF ALUMINUM FRAME & WINDOW SYSTEM.
 3. DOOR #14: PROVIDE SOUND CONTROL WEATHER-STRIP ALL AROUND AND @ BOTTOM.
 4. PROVIDE DOOR CLOSERS AS SPECIFIED.

ALUMINUM FRAMES & WINDOW TYPES



NOTE: 1. PROVIDE DOUBLE PANE GLASS FOR FRAME TYPES 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P'.
 2. PROVIDE TRIPLE PANE GLASS FOR ALL OTHER FRAME TYPES.
 3. PROVIDE TEMPERED GLASS (DOUBLE OR TRIPLE AS ABOVE) FOR FRAME TYPES 'D', 'C', 'D', 'D'.
 4. EXTERIOR WINDOW ALL FLASHING & MATCHED WINDOW FINISH.
 5. PROVIDE ALUM. THRESHOLD W/ FRAMES 'E' & 'D'.
 6. PROVIDE ALUM. DOORS 12 & 22 TO MATCH BY ALUM. FRAME & WINDOW SUPPLIER.

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR	EXIST.	WALL	WALL FIN.	CEILING	CEILING FIN.	CL. HT.	REMARKS
100	YOUTH SHOP	EXIST.	CB	CB	EXIST.	EXIST.	VARIES		
101	MEN'S TOILET	ST.	ST.	EXIST.	PAINT	EXIST.	PAINT	8'-0"	
102	MEN'S SHOWER	ST.	ST.	CB	ST.	PLASTER	PAINT	8'-0"	
103	MEN'S LOCKERS	RUBBER	RUBBER	CB, EXIST.	PAINT	ACT-G	ACT-G	8'-0"	
104	UTILITY	COND.	CB	CB	---	---	---	8'-0"	
105	LUNCH ROOM	ST.	ST.	CB, EXIST.	PAINT *	ACT-G	---	8'-0"	* WALL GRAPHIC (SEE PLAN)
106	PASSAGE	VAT.	VINYL	CB	PAINT	ACT-G	---	8'-0"	
107	WOMEN'S LOCKERS	RUBBER	RUBBER	DRYWALL	PAINT	ACT-G	---	8'-0"	* 3/8" MOISTURE RESISTANT
108	WOMEN'S SHOWER	ST.	ST.	DRYWALL	ST.	PLASTER	PAINT	8'-0"	* 3/8" MOISTURE RESISTANT
109	OFFICE TOILET	* VAT.	VINYL	DRYWALL	PAINT	ACT-G	---	8'-0"	* H.C. ACCESSIBLE
110	PASSAGE	VAT.	VINYL	DRYWALL	PAINT	ACT-G	---	8'-0"	
111	JANITOR CLOSET	VAT.	VINYL	DRYWALL	PAINT	EXIST.	---	8'-0"	* 3/8" MOISTURE RESISTANT
112	CORRIDOR	VAT.	VINYL	CB	PAINT	ACT-G	---	7'-4"	
113	VEST. BULB	ST.	ST.	*	---	EXIST.	PAINT	8'-0"	* EXT. WALL INSUL. SYSTEM
114	FOREIGN	VAT.	VINYL	CB, EXIST.	PANEL	ACT-G	---	8'-0"	
115	FURNACE	EXIST.	EXIST.	CB, EXIST.	*	EXIST.	---	7'-0"	* SOUND CONTROL INSUL.
116	STORAGE	VAT.	VINYL	CB, EXIST.	EXIST.	ACT-G	---	8'-0"	* CLEAN & REFINISHED
117	CONFERENCE	CARPET	VINYL	EXIST.	PANEL	ACT-G	---	8'-0"	
118	VEST. BULB	EXIST.	VINYL	WOOD, EXIST.	*	EXIST.	PAINT	8'-0"	* EXIST. PAINT / WOOD STAIN
119	PASSAGE	VAT.	VINYL	WOOD, EXIST.	*	ACT-G	---	8'-0"	* EXIST. PAINT / WOOD STAIN
120	CLOSET	VAT.	VINYL	EXIST.	PAINT	EXIST.	---	7'-4"	
121	VAULT	VAT.	VINYL	EXIST.	PAINT	EXIST.	---	8'-0"	
122	RECEPTIONIST	VAT.	VINYL	EXIST.	PAINT	ACT-G	---	8'-0"	* ACT-G / SOUND CONTROL
123	STAFF	VAT.	VINYL	WOOD	CB, PAINT	ACT-G	---	8'-0"	* REMOVE EXIST. & PATCH
124	SUPERVISOR	CARPET	VINYL	DRYWALL, PAINT, PANEL	ACT-G	---	---	8'-0"	* SEE 10/A & B
125	SUPERVISOR	CARPET	VINYL	DRYWALL, PAINT, PANEL	ACT-G	---	---	8'-0"	* SEE 10/A & B

1. WINDOW DRAFFES AS SPECIFIED UNDER SEPARATE CONTRACT (SEE PLAN 4/A2).
 ACT-G = DIRECT GLASS ONTO EXIST. *ACT-G* = SUSPENDED SYSTEM.

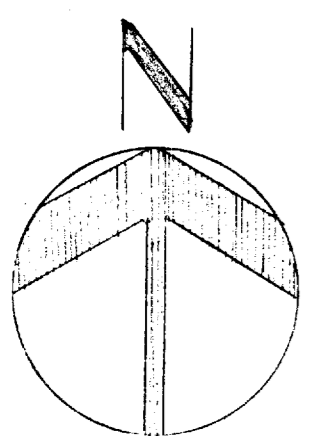
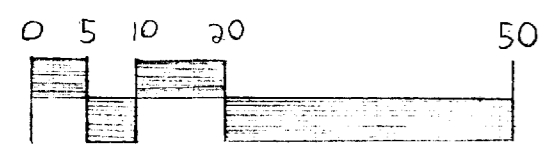
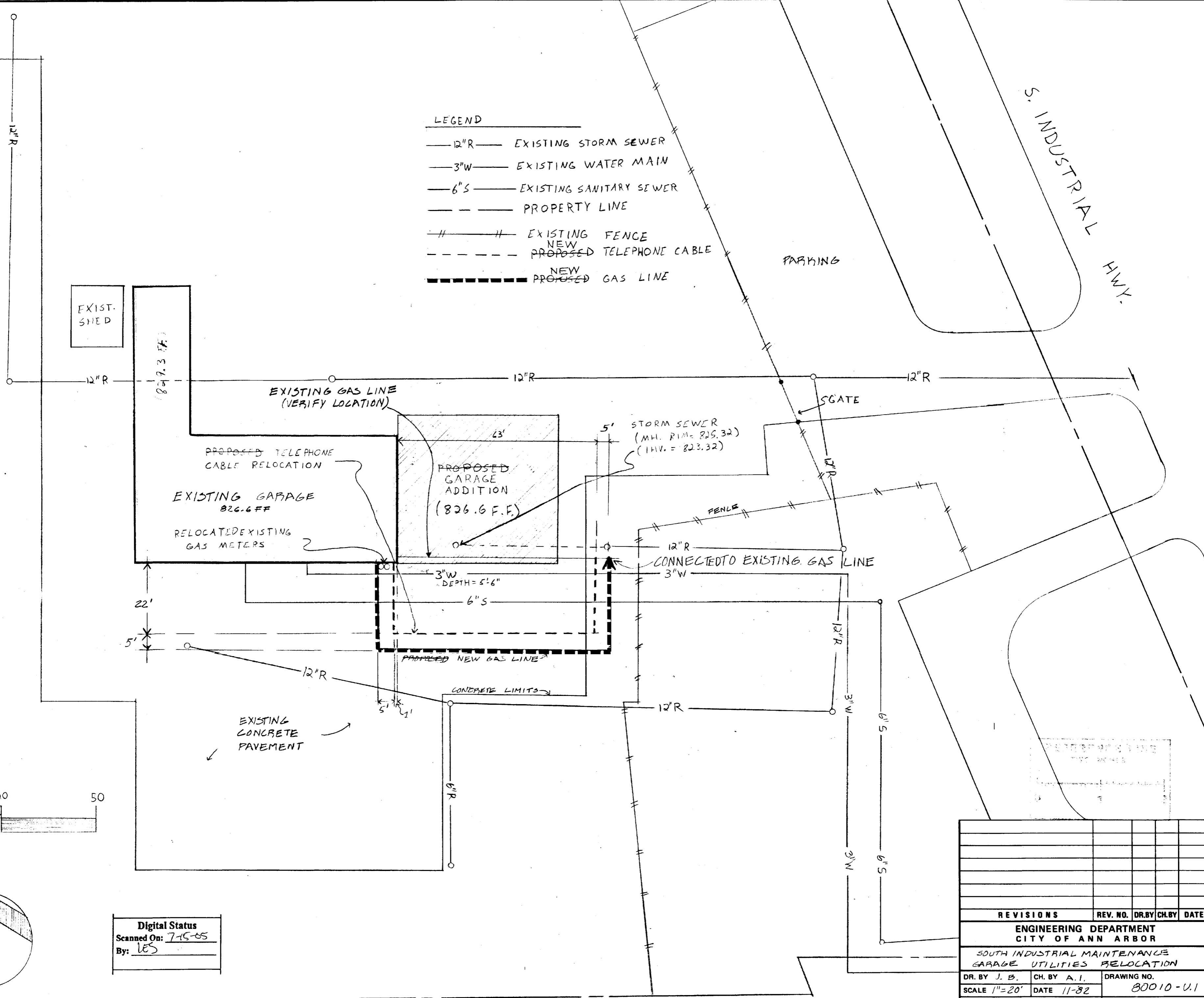
SUN STRUCTURES
 ARCHITECTS
 201 E. LIBERTY ST., ANN ARBOR, MICH. 48104
 313-994-5660

DRAWN BY: R.M.P.
 CHECKED BY: [Signature]
 REVISIONS: 1/12/03
 2/17/05 R.M.P.

SHEET TITLE: ELEVATIONS & SCHEDULES
 PROJECT TITLE: RENOVATION OF THE ANN ARBOR UTILITIES DEPT. FIELD OFFICE
 2000 SOUTH INDUSTRIAL HIGHWAY
 ANN ARBOR, MICH.

LEGEND

- 12"R — EXISTING STORM SEWER
- 3"W — EXISTING WATER MAIN
- 6"S — EXISTING SANITARY SEWER
- - - - - PROPERTY LINE
- ||-||- EXISTING FENCE
- - - - - NEW PROPOSED TELEPHONE CABLE
- - - - - NEW PROPOSED GAS LINE

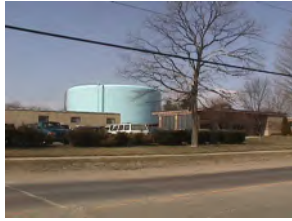


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 By: ves

REVISIONS					REV. NO.	DR. BY	CH. BY	DATE
ENGINEERING DEPARTMENT CITY OF ANN ARBOR								
SOUTH INDUSTRIAL MAINTENANCE GARAGE UTILITIES RELOCATION								
DR. BY J. B.		CH. BY A. I.		DRAWING NO.				
SCALE 1"=20'		DATE 11-82		80010-U.1				
INCH				SHEET NO. 1 OF 1				

2000 SOUTH INDUSTRIAL HWY Ann Arbor, MI 48108 (Property Address)

Parcel Number: 09-12-04-200-013



Item 1 of 1 1 Image / 0 Sketches

Property Owner: CITY OF ANN ARBOR

Summary Information

> Assessed Value: \$0 | Taxable Value: \$0

Parcel is Vacant

Owner and Taxpayer Information

Owner	CITY OF ANN ARBOR Water Treatment * PO BOX 8647 Ann Arbor, MI 48107	Taxpayer	SEE OWNER INFORMATION
--------------	--	-----------------	-----------------------

General Information for Tax Year 2021

Property Class	095 Exempt City of AA	Unit	09 CITY OF ANN ARBOR
School District	ANN ARBOR PUBLIC SCHOOLS	Assessed Value	\$0
Map #	No Data to Display	Taxable Value	\$0
User Num Idx	4	State Equalized Value	\$0
User Alpha 1	No Data to Display	Date of Last Name Change	06/06/2007
User Alpha 3	No Data to Display	Notes	Not Available
Historical District	No	Census Block Group	No Data to Display
User Alpha 2	No Data to Display	Exemption	No Data to Display

Principal Residence Exemption Information

Homestead Date No Data to Display

Principal Residence Exemption	June 1st	Final
2021	0.0000 %	0.0000 %

Previous Year Information

Year	MBOR Assessed	Final SEV	Final Taxable
2020	\$0	\$0	\$0

Land Information

Zoning Code	PL	Total Acres	0.730
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	No	Renaissance Zone Expiration Date	No Data to Display
ECF Neighborhood	213 S State & Stadium S Apt	Mortgage Code	No Data to Display
Lot Dimensions/Comments	No Data to Display	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

LOT 21 FRISINGER INDUSTRIAL SUB ALSO BEG NW COR LOT 21 TH S 23 DEG 27 MIN 30 SEC E 415.8 FT TH S 87 DEG 54 MIN W 300 FT TH N 23 DEG 27 MIN 30 SEC W 415.8 FT TH N 87 DEG 55 MIN E 300 FT TO POB PRT NW 1/4 SEC 4 T3S R6E

Land Division Act Information

Date of Last Split/Combine	<i>No Data to Display</i>	Number of Splits Left	<i>Not Available</i>
Date Form Filed	<i>No Data to Display</i>	Unallocated Div.s of Parent	0
Date Created	01/01/0001	Unallocated Div.s Transferred	0
Acreage of Parent	0.00	Rights Were Transferred	No
Split Number	0	Courtesy Split	No
Parent Parcel	<i>No Data to Display</i>		

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page	Comments
No sales history found.							

****Disclaimer:** BS&A Software provides BS&A Online as a way for municipalities to display information online and is not responsible for the content or accuracy of the data herein. This data is provided for reference only and WITHOUT WARRANTY of any kind, expressed or inferred. Please contact your local municipality if you believe there are errors in the data.

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Image/Sketch for Parcel: 09-12-04-200-013



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The History of Recycle Ann Arbor

1970

Sponsored by the Libbey Owens Glass Company, the [Ecology Center \(http://www.ecocenter.org/\)](http://www.ecocenter.org/) starts a drop-off recycling station at Arborland Shopping Center.

1977

Recycle Ann Arbor incorporates.

1978

Recycle Ann Arbor begins a curbside collection program in sections of Ann Arbor. Residents can leave their recyclables in marked bins to be collected at curbside.

1981

Recycle Ann Arbor and the Ecology Center merge and receive the first contract from the City of Ann Arbor to collect recyclables from the curb. Throughout the 1980s, Recycle Ann Arbor is managed as a program of the Ecology Center.

1985

Curbside collection is expanded to reach the majority of the Ann Arbor community. Recyclables are collected monthly.

1990

Recycle Ann Arbor is reorganized as a wholly-owned subsidiary of the Ecology Center. As part of the reorganization, the Ecology Center drop-off station is given to Recycle Ann Arbor to operate.

1991

Curbside collection is again expanded to reach all Ann Arbor residents on a weekly collection basis. The collection program includes multi-family housing dwellings.

1997

The Drop-Off Station is moved from its location on South Industrial Highway to 2950 East Ellsworth Road. Area residents can drop off all curbside collectibles, as well as hardcover books, Styrofoam, egg cartons, car tires, truck tires, car batteries, transmission fluid, anti-freeze, brake fluid and fluorescent light tubes. Residents can also purchase inexpensive compost and mulch.

The ReUse Center opens at 2420 South Industrial Highway as an alternative to throwing away reusable items. Used materials are collected and sold at affordable prices, saving tons of useful items from landfills.

1999

The Environmental House Green Building Demonstration Area opens its doors inside RAA's ReUse Center to educate the public on the finer points of "Green" (or environmentally-friendly) building techniques.

2000

The Ann Arbor Area Board of Realtors awards Recycle Ann Arbor's ReUse Center and Environmental House with the 2000 Environmental Awareness Award.

The ReUse Center expands into the attached paper baling warehouse, doubling floor space to more than 20,000 square feet. Energy-efficient lighting is installed.

2001

The Michigan Recycling Coalition names Recycle Ann Arbor the Recyclers of the Year, for its outstanding reduction and reuse programs.

2003

Recycle Ann Arbor receives the Waste Knot Winner award from Washtenaw County.

2005

The National Recycling Coalition presents Recycle Ann Arbor with the prestigious Tim McClure Award, recognizing outstanding environmental and community leadership.

2006

The ReUse Center celebrates its tenth year of successful operation, thanks to the grassroots efforts of customers and volunteers.

2007

Recycle Ann Arbor acquires Calvert's Roll-Off Containers in February of 2007. Calvert's becomes the only 501(c)3 non-profit organization in Michigan to offer complete construction and demolition (C&D) waste and recycling services.

Recycle Ann Arbor launches its annual Earth Day Essay Contest for students attending fifth and sixth grades in Washtenaw County schools. More than 100 entries are received, and the winner is awarded a \$500 United States savings bond.

2008

The Drop-Off Station holds its first free, secure document shredding event for residents and businesses in Washtenaw County. More than 500 customers participate, resulting in more than two tons of paper being shredded and recycled.

Recycle Ann Arbor introduces "Project Recycle!", an educational outreach program for third-graders attending City of Ann Arbor public and private schools. More than 3,000 students participate in the program in its first two school years.

2009

The Drop-Off Station institutes a \$3.00 entry fee, following the loss of funding from Washtenaw County and the decision to charge all customers equally to enter the facility.

2010

Curbside recycling in the City of Ann Arbor transitions from a dual-stream to a single-stream program. The traditional recycling bins are replaced by wheeled carts, and new automated-lift recycling trucks are purchased which utilize an energy-saving hydraulic hybrid braking system.

2016

The ReUse Center celebrates 20 years of keeping reusable goods out of the landfill. Recycle Ann Arbor launches a brand new website that includes a searchable A-Z Recycling Guide.

2017

Recycle Ann Arbor is awarded the interim contract with the City of Ann Arbor to facilitate the sorting and processing of recyclables by transporting them to our partners at Rumpke in Ohio.

2018

Recycle Ann Arbor celebrates 40 years as a community based non-profit recycler.

2019

Recycle Ann Arbor co-founded the [Alliance of Mission-Based Recyclers \(https://ambr-recyclers.org/\)](https://ambr-recyclers.org/), a coalition founded by the pioneers of mission-driven, community-based recycling in the US. Together we are guiding new recycling policies and infrastructure investments to rebuild credible, transparent recycling systems that serve as a bridge toward a circular economy and just, resilient local communities.

2020

Recycle Ann Arbor closes the Reuse Center due to pressures of the pandemic and an inability to renegotiate rental terms with the landlord.

2021

Recycle Ann Arbor completes construction on its Zero Waste MRF, which began processing the area's recyclables on Dec. 1st, 2021.

[U-M COVID-19 updates \(https://coronavirus.umich.edu\)](https://coronavirus.umich.edu)

Beyond the Diag - Off Campus Housing

Re-Use / Recycling in Ann Arbor

Are you leaving your rental or starting a new lease and need to get rid of trash, useful household items, or recycling? The City of Ann Arbor can help!

The city is offering trash, reuse, and recycling services to students and their landlords 9:00 am - 2:00 pm on the following dates: August 15 -16; 18; 21 – 23; 25; and 27 – 29 at 2000 South Industrial Highway, Ann Arbor. You can drop off your items at this location for free during these hours. Please note that any illegal dumping during off hours is subject to fines. You can find a list of accepted and prohibited materials below, but if you have any other questions about this event, visit the city's website a2gov.org/studentmove or contact Customer Service at 734.994.7336 or customerservice@a2gov.org (<mailto:customerservice@a2gov.org>).

Reuse, Donate, and Recycle

The city is working with the University of Michigan to promote reuse and recycling:

<https://ocs.umich.edu/programs/waste-reduction/student-move-in-move-out> (<https://ocs.umich.edu/programs/waste-reduction/student-move-in-move-out>).

Before you bring items to the city's move out site, check out these donation and reuse options:

<https://www.a2gov.org/departments/trash-recycling/Pages/Reuse.aspx> (<https://www.a2gov.org/departments/trash-recycling/Pages/Reuse.aspx>).

Accepted and Unacceptable Materials

Accepted materials for reuse: The city has invited Kiwanis Club of Ann Arbor Foundation to participate in reusing unwanted items. Kiwanis may accept gently used clothing; clean mattresses; furniture and working electric appliances including refrigerators.

Accepted recycling: scrap metal, cardboard, mixed paper; metal cans; glass bottles and jars; plastic bottles, containers and tubs; "Aseptic" and "Tetrapak" cartons. Visit the city's website for more details. You can also place these items in carts or dumpsters at your residence.

Accepted trash: Bagged trash; discarded furniture (if you can lift it into the dumpster without City staff assistance).

Unacceptable materials: Freon containing appliances; refrigerators; televisions; electronics; construction debris: wood, wallboard, flooring, tile, wires, spools, pallets, and any material of a similar nature; carpet; liquids of any kind; paint; yard waste; food waste; compost; biohazardous or hazardous waste; ovens and dishwashers; bathtubs and hot tubs; trailers or boats; material that needs to be broken down to place into the dumpsters; material that you cannot unload yourself. Many of these unaccepted materials can be taken to Washtenaw County's Home Toxics Center, the Drop-off Station, or Recycle Ann Arbor's Recovery Yard.

Beyond The Diag - August 2021 Newsletter

Re-Use / Recycling in Ann Arbor (</article/re-use-recycling-ann-arbor>)

Welcome to Michigan events (/article/welcome-michigan-events)
Canvassing (/article/canvassing)
Football season - night game! (/article/football-season-night-game)
Return to Campus - vaccine requirements and information (/article/return-campus-vaccine-requirements-and-information)
Early Lease Ordinance - updated August 2021 (/article/early-lease-ordinance-updated-august-2021)




(<https://studentlife.umich.edu>)

Office of the Dean of Students

530 S. State Street


Suite 3100


Ann Arbor, Michigan 48109

 [View on a map \(https://maps.studentlife.umich.edu/building/michigan-union\)](https://maps.studentlife.umich.edu/building/michigan-union)

Monday - Friday 8 AM - 5 PM

 (734) 764-7420 ([http://tel:\(734\)764-7420](http://tel:(734)764-7420))

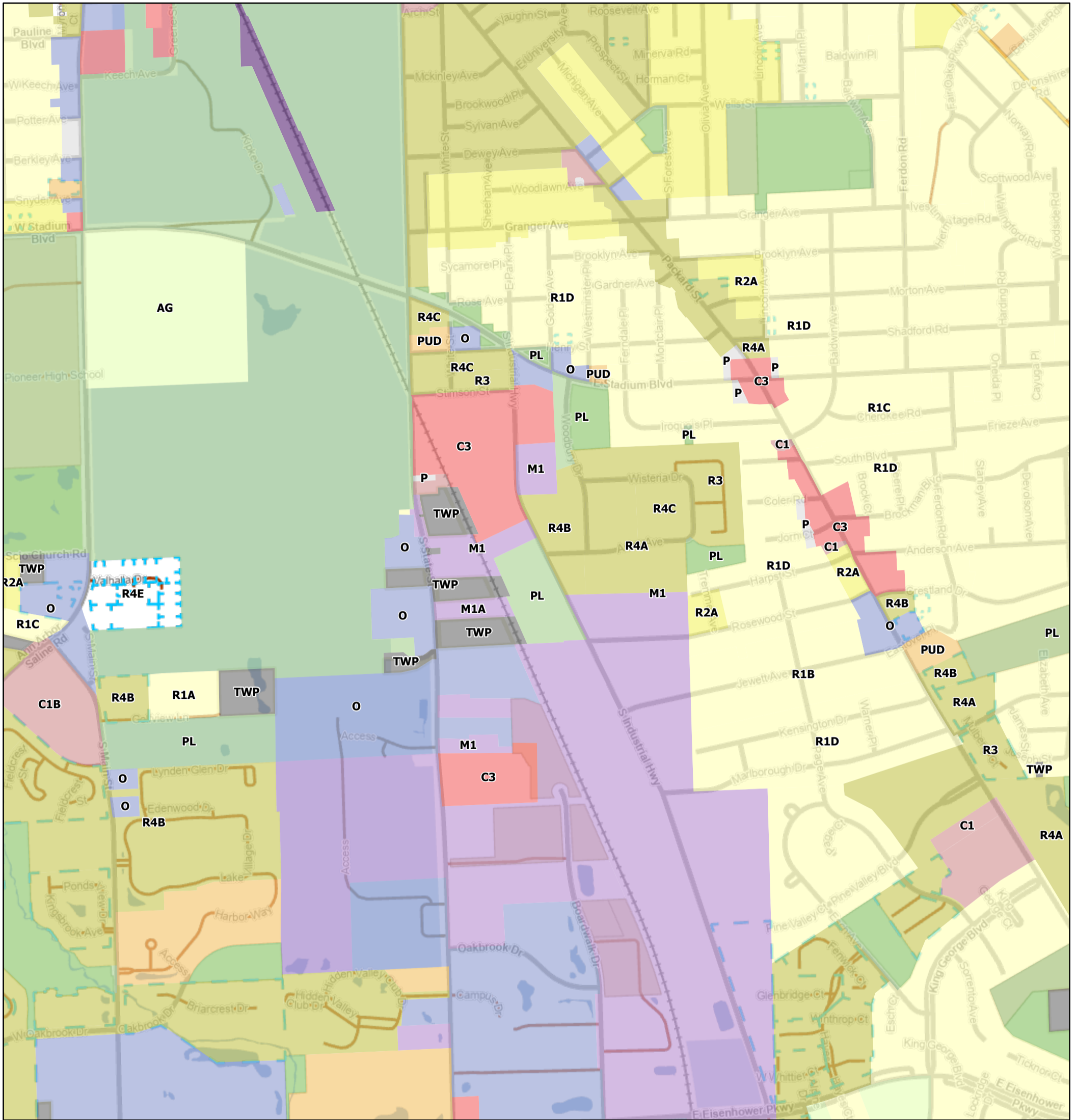
 /UMBeyondtheDiag ([//www.facebook.com/UMBeyondtheDiag](https://www.facebook.com/UMBeyondtheDiag))


Our Strategic Plan for Diversity, Equity & Inclusion (<https://studentlife.umich.edu/diversity-equity-inclusion>)

Web Accessibility Statement (<http://studentlife.umich.edu/accessib>) | Non-Discrimination Policy (<http://hr.umich.edu/oie/ndpolicy.html>) | U-M Gateway ([//umich.edu](https://umich.edu))

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Ann Arbor Zoning Map

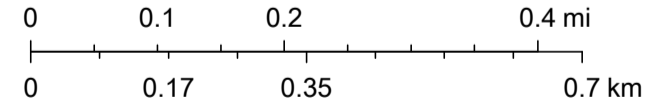


2/25/2022, 1:04:18 PM

1:9,600

City Zoning Districts

- R1A-Single Family Dwelling
- AG-Agriculture/Open Space
- C1-Local Business
- C1A/R-Campus Business/Residential
- C1B-Community Convenience Center
- C2B-Business Service
- C3-Fringe Commercial
- M1-Limited Industrial
- M1A-Limited Light Industrial
- M2-Heavy Industrial
- O-Office
- ORL-Office/Research/Limited Industrial
- P-Parking
- PL-Public Land
- PUD-Planned Unit Development
- R1B-Single Family Dwelling
- R1C-Single Family Dwelling
- R1D-Single Family Dwelling
- R2A-Two Family Dwelling
- R2B-Two Family Dwelling
- R3-Townhouse Dwelling
- R4A-Multiple Family Dwelling
- R4B-Multiple Family Dwelling
- R4C-Multiple Family Dwelling
- R4D-Multiple Family Dwelling
- Township Parcels
- Township Parcels
- Common Parcels



City of Ann Arbor

Parcel Information

PIN: 09-12-04-200-013
CVT Code: 09
CVT Description: CITY OF ANN ARBOR
School: 81010 , ANN ARBOR PUBLIC SCHOOLS
Property Class: 095 , EXEMPT

Property Information

Address: 2000 SOUTH INDUSTRIAL HWY
ANN ARBOR , MI 48108

Owner Information

Owner: CITY OF ANN ARBOR
WATER TREATMENT
Address: * PO BOX 8647
ANN ARBOR , MI 48107



Parcel highlighted in blue

Homestead Information

Homestead Percent: 0%

Values

Assessed Value: \$ 0 **SEV:** \$ N/A
Capped Value: \$ 0 **Taxable Value:** \$ 0

Drain Assessment (not incl. drain debts)

Year	Drain Name	Amount
------	------------	--------

Sales (last 3 max)

Date	Sale Price	Type
------	------------	------

Tax Description

LOT 21 FRISINGER INDUSTRIAL SUB ALSO BEG NW COR LOT 21 TH S 23 DEG 27 MIN 30 SEC E 415.8 FT TH S 87 DEG 54 MIN W 300 FT TH N 23 DEG 27 MIN 30 SEC W 415.8 FT TH N 87 DEG 55 MIN E 300 FT TO POB PRT NW 1/4 SEC 4 T3S R6E

Andrew Temerowski

From: Alanis, Sarah <SAlanis@a2gov.org>
Sent: Tuesday, March 1, 2022 2:45 PM
To: Andrew Temerowski
Subject: [EXTERNAL] 6994 FOIA Response
Attachments: 6994 - FOIA GRANTED-DENIED-INTERNET RECORDS.pdf; 2000 Industrial.pdf; City of Ann Arbor 09-12-04-200-013 - exempt parcel.pdf

[External Email] This email originated from outside of the Atlas mail system. Please use caution when opening attachments.

Hello-Please see the attached response regarding your most recent FOIA request.
Thank you!

Sarah Alanis, Projects Boards and Commissions Coordinator (she/her/hers)
Ann Arbor City Clerk's Office | Guy C. Larcom City Hall |301 E. Huron, 2nd Floor · Ann Arbor · MI · 48104
734.794.6140 (O) Ext: 41413
SAlanis@a2gov.org | www.a2gov.org



Think Green! Please don't print this e-mail unless absolutely necessary.

District No. 2 Type Inspection Fire Fire Prevention Division

Location 2000 Industrial Highway.

Stories 1 Construction Brick

Bldg. owned by Lewis & Pristinger Cities A. D. Utilities

Address 1700 Stafford Rd. NO. 8-6563

BUILDING

Has bldg. fire walls? Are fire wall openings protected?

Fire wall doors are: automatic self-closing manual Are all other fire doors operative?

Are all fire wall fire doors operative? Do all doors and gates operate properly? Yes

Are elevator shafts enclosed or open? Are all other floor openings, including stairways, protected?

Are all stairwell fire doors self-closing? Were they closed at time of inspection?

Number of exits TWO each floor? Are exits properly maintained? Yes

Are exits marked? Are exits adequate? Yes

Are exits adequate? Yes Are exits properly maintained? Yes

Are exits marked? Yes Are exits properly maintained? Yes

Are exits adequate? Yes Are exits properly maintained? Yes

Are exits marked? Yes Are exits properly maintained? Yes

Are exits adequate? Yes Are exits properly maintained? Yes

Are exits marked? Yes Are exits properly maintained? Yes

Are exits adequate? Yes Are exits properly maintained? Yes

Are exits marked? Yes Are exits properly maintained? Yes

Are exits adequate? Yes Are exits properly maintained? Yes

Are exits marked? Yes Are exits properly maintained? Yes

Are exits adequate? Yes Are exits properly maintained? Yes

Are exits marked? Yes Are exits properly maintained? Yes

Occupied by City of Ann Arbor

Occupied as The Lewis Pristinger Company

Executive official G. E. Pristinger (Bu) ABBCUIT

Residence address O. H. Barry - NO. 2-0201 426 CRIST.

Housekeeping (if poor, give details) Good

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

OCCUPANCY

Housekeeping (if poor, give details) Good

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

Is elevator pit clean? Yes

General condition of building (structurally)? Good

Permit? PAR TABLE

Any acetylene apparatus? Yes

Ventilating system? Air conditioning? Westing house

Condition of plenum chambers? Good

Location of welding On wheels - in garage next to office

Is smoking permitted? Yes When and where? Whole Building.

Propane in storeroom in South Garage.

South West Corner of Garage.

Paint and oil storage in

material detrimental to firemen? Give details.

Drop Ladder to attic none to roof.

What is means of access to roof? Drop Ladder to attic none to roof.

Was roof opening unlocked? Forced Air. - makes up air

How is building heated? Forced Air. - makes up air

Condition of heating apparatus, including smoke pipes, heat ducts, etc. (if defective, describe) Good (New)

Condition of electrical wiring? (if defective, explain) Good

General condition of building (structurally)? Good

FIRE PROTECTION

there a _____ Wet _____ Dry _____
sprinkler system? _____
sources of supply and _____
capacity of each? _____

Were control _____ Were control _____
valves open? _____ valves sealed? _____
Are control valves _____
readily accessible? _____

Is sprinkler distribution _____
obstructed at any point? _____

Condition of outside _____
Fire Dept. connection? _____

Has bldg. a _____ Wet _____ Dry _____
standpipe system? _____

Source of supply _____ Condition _____
and capacity? _____ of hose? _____
Size and type hose _____
on standpipe? _____

Can Fire Dept. use _____
standpipe outlets? _____

Number, size, type and _____ 1-CO2 - Furnace Room.
location of fire extinguishers? _____

1 - SA - Feb. - 56 _____
1 - Foan - May - 58 Garage. _____

1 - CO2 - March - 58 Garage. _____
1 - Carbon Dioxide - May - 58 Garage. _____

1 - CO2 - May - 58 - Parts Room - Garage. _____
Last service _____ Condition of _____
date? _____ extinguishers? _____
Amount, size and type of hose _____
other than on standpipe? _____

Condition of hose? _____
Outline procedure for notifying _____ Phone _____
Fire Dept. in case of fire: _____

Conditions referred to other Departments? _____

Regarding violations _____ Title _____
found, interviewed _____

Notice No. _____ issued as follows: _____
Main Building is brick and cement block.

Building right to the west of it is steel and concrete.
The storage garage to the west of this building is

wood.
The building south of the main building is cement

block. The building due west of this building is

wood.
The buildings due south of this building is all wood.
Six buildings in all.

Time required to make inspection: _____
Fire Inspector _____

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3,4)	Tank No. 1. (South)	Tank No. 2. (North)	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply) Currently In Use Temporarily Out of Use Permanently Out of Use Brought Into Use after 5/8/86	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Estimated Age (Years)	<u>1979</u>	<u>1980</u>			
3. Estimated Total Capacity (Gallons)	<u>12,000</u>	<u>12,000</u>			
4. Material of Construction (Mark one) Steel Concrete Fiberglass Reinforced Plastic Unknown Other, Please Specify	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Internal Protection (Mark all that apply) Cathodic Protection Interior Lining (e.g., epoxy resins) None Unknown Other, Please Specify	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. External Protection (Mark all that apply) Cathodic Protection Painted (e.g., asphaltic) Fiberglass Reinforced Plastic Coated None Unknown Other, Please Specify	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Piping (Mark all that apply) Bare Steel Galvanized Steel Fiberglass Reinforced Plastic Cathodically Protected Unknown Other, Please Specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply) a. Empty b. Petroleum Diesel Kerosene Gasoline (including alcohol blends) Used Oil Other, Please Specify c. Hazardous Substance Please Indicate Name of Principal CERCLA Substance on Chemical Abstract Service (CAS) No. Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances d. Unknown	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr) b. Estimated quantity of substance remaining (gal.) c. Mark box <input type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>

Polycarbonate Polycarbonate

ADDRESS 2000 S. Industrial
Property Name: Field Sq. Dry Clean Dept
Tenant Name: Edy of Danville
Responsible Party: Craig Hupp

Date: 6-4-91 Time: 5:30
Emergency Contacts: Same
Auto Sprinkler: L.A. Standpipe & Hose Cabinets: _____ Fire Pump: _____

Location Of Fire Department Connection: _____
Fire Alarm: Automatic _____ Manual _____ Alarm Co. _____
Location Of Annunciator Panel: _____
Fixed Property Use: _____ Type Of Bldg. Const: _____
Number Of Stories Occupied By Tenant: _____ Total Floor Area Of Tenant Space: _____

Violation	Violation	Violation	Violation
EXITWAYS	ELECTRICAL	SPRINK & STANDPIPE	SPRINK CONTROL
Proper Number	CONTROL PANEL	RISERS & VALVES	Open
Obstructed	Access	Condition	Accessible
Arrangement	Properly Marked	Accessible	Condition
Door Swing	CIRCUITS	DRAINS	F.D. CONNECTION
Locks	Proper Sizes	Marked	Accessible
Panic Hardware	Identified	Accessible	Swivels Working
STAIRWAYS	Unused Opening	SPARE HEADS	Cap & Plugs
Proper Number	OUTLETS	Available	Threads
Width	Proper Location	Wrench	
Arrangement	Proper Number	FIRE PUMP	COMPRESSED GAS
Door Swing	Covers	Enclosed in Room	Chained
Hold Open Device	EXTENSION CORDS	Condition	Storage
Locks	Condition	SPRINKLER COVERAGE	Other
Panic Hardware	Use	HOSE STATIONS	FLAMMABLE LIQUID
HAISLES	EMERG. LIGHTS	OTHER	Storage
Proper Width	Adequate		Dispensing
Arrangement	BATTERY UNITS	FIRE ALARM SYSTEM	Sources Of Ignition
INTERIOR	Tested	CONTROL PANEL	No Smoking Signs
Condition	EXIT LIGHTS	Accessible	Class B Exting.
	Working	Identified	OTHER
FIRE WALLS	Properly Located	PULL STATIONS	
Condition	EXPLOSION PROOF	Accessible	PORT FIRE EXTING.
Fire Doors	Condition	Working	Condition
Operation	Seal Offs	DETECTORS	Location
Hold Open Device	ELEVATOR SHAFTS	Location	Type
STORAGE	Emergency Key!	Working	Access
Condition	Stop	OTHER	Other
Height	Equipment Room		GAS METER
Housekeeping	HOOD & DUCT SUPP.	SUPERVISION	Condition
No Smoking Signs	Condition	Sprinkler System	Protection
CEILING	Serviced	Fire Alarm System	ADDRESS
Condition	Coverage	Sprinkler Valve	Adequate

PERSON INTERVIEWED: Lorraine A. Watson
Remarks Or Instructions For Elimination Of Fire Hazards:
Storage O.K. 6-25-91
Exit O.K.
Extention in cord in office use in office

You are hereby requested to remedy the above noted violations of the Fire Prevention Code within _____ days. A re-inspection will be made.

I-7 Revised 4/19/89 COMPANY OFFICER: _____

F I I N R F H O	Firm Name: CITY OF ANN ARBOR	P.R. No.: 4-00-3559-92
	Terminal Address: 2000 S. INDUSTRIAL	County: WASHTENAW
	City: ANN ARBOR	St: MI Zip: 48105 UST Facility #: 0-036768

Name & Mailing Address of Firm Submitting Plans USTECH GROUP 3220 ROBERT T. LONGWAY BLVD. FLINT, MI., 48506 Telephone:	Fire Marshal Field Office 2ND DISTRICT 42145 W. SEVEN MILE RD. NORTHVILLE, MI. 48167 Telephone: 313/380-1109
--	--

Approved <input checked="" type="checkbox"/> Disapp.	Sign. of SFM Officer/Badge No. <i>MARVIN L. KLASZ</i> <i>Marvin L. Klasz</i>	Date: 92/10/22
*CONTACT FIELD OFFICE FOR FINAL INSPECTION PRIOR TO PLACING INTO SERVICE *CERTIFICATE OF ELECTRICAL APPROVAL REQUIRED FROM INSPECTING AUTHORITY HAVING JURISDICTION		

1st <input checked="" type="checkbox"/> Cert.	Disapp.	Sign. of SFM Officer/Badge No. <i>MARVIN L. KLASZ</i> <i>Marvin L. Klasz</i>	Date: 93/01/04
2nd Cert.	Disapp.	Sign. of SFM Officer/Badge No.	Date:
3rd Cert.	Disapp.	Sign. of SFM Officer/Badge No.	Date:

R D E I A S S A O P N P S R O V E E O	RULE NO.	REASON

1 2 TC 3 CO 4 Term No. 5 Firm Name 6 Phone No.
9 81 CITY OF ANN ARBOR

M T A E S R T M E I R N A I L N F O	AG USE ONLY	7 Firm Mailing Address 2000 INDUSTRIAL	8 City ANN ARBOR	9 St. MI	10 Zip 48105
	TC = Trans Code	11 Contact Person			12 Phone No.
	1 = FL/C1 2 = LPG	13 Terminal Address 2000 S. INDUSTRIAL	14 City ANN ARBOR	15 St. MI	16 Zip 48105
	17 City	18 FDID	19 Terminal Type: LP-- Plant Dist. Point Indust. Plant Motor Fueling Other		
			X FL/HAZ MAT-- Bulk Pipeline Refinery Industrial Marine Oil Well Other X Service Station		

T A N K I N F O	Tank No.	Tank Class	Serial No. (LPG)	Manufacturer (LPG)	Yr	Capacity(gal)
	006	F/L	UL 300207	GASOLINE		15,000 GAL.
	007	C/L	UL 300208	DIESEL		15,000 GAL.

Corrected Copy
(Tank Description)
Kat

RELEASE REPORT FORM
 SUSPECTED CONFIRMED

(PLEASE CHECK ONE)

IMPLEMENTING AGENCY:
MICHIGAN STATE POLICE
FIRE MARSHAL DIVISION

FMD USE ONLY:

Facility Number 36718

Upgrade/Cancel Date

Release Number C-1594-92

Date Entry, Clerk Initials & Date

Person Reporting Release:

Eric Halzer

Company (if not owner/operator)

The Traverse Group

Telephone (include Area Code)

(313) 747-9300

I. OWNERSHIP OF TANKS

II. LOCATION OF TANKS

IF NEW OWNERS ADDRESS, PLEASE CHECK

IF SAME AS SECTION I, PLEASE CHECK

OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)

City of Ann Arbor

OWNER NAME (ZINCONE)

Job On, Fifth Avenue

STREET ADDRESS

Ann Arbor, Mi 48107

CITY

STATE

ZIP

313 994-6696

TELEPHONE (INCLUDE AREA CODE)

Don Cullen

CONTACT PERSON

FACILITY NAME OR CO. SITE IDENTIFIER

Utilities Field Services Div.

STREET ADDRESS (P.O. BOX NOT ACCEPTABLE)

2000 S Industrial

CITY

STATE

ZIP

Ann Arbor, Mi

COUNTY

TOWNSHIP

Washtenaw

TELEPHONE (INCLUDE AREA CODE)

Date Release Discovered:

9/14/92

Time Release Discovered:

12:28 pm

Size of Tank (gallons)

Substance Released

Construction of Tank

Reason for Believing Release Occurred:

(presence of product, failed tightness test, vapors, stains)

~~12,000~~

~~Diesel Fuel~~

~~Steel~~

12,000

Fuel

Steel

RECEIVED

OCT 09 1992

COMMENTS:

ANN ARBOR FIRE DEPT.

Date Time Reported (FMD USE ONLY)
 FAX FAX VOICE MAIL

9/15/92

Reporting Signature

[Signature]

ATTENTION: SEE REVERSE SIDE FOR INSTRUCTIONS

12:23 pm

DISTRIBUTION
WHITE - FIRE MARSHAL DIVISION / HAZARDOUS MATERIALS SECTION
CANARY - FIRE MARSHAL DIVISION, FIELD OFFICE
PINK - DEPT. OF MANAGEMENT & BUDGET
GOLDENROD - OWNER
PAX COPY - DNR FIELD OFFICE

AUTHORITY: 1984 PA 423
COMPLIANCE: Required
PENALTY: Misdemeanor. Civil Penalties not to exceed \$5,000 per day, per tank

(PLEASE CHECK ONE)

RELEASE REPORT FORM

SUSPECTED

CONFIRMED

Upgrade Jay Eric Helzer
Lab results Kit

IMPLEMENTING AGENCY:
MICHIGAN STATE POLICE
FIRE MARSHAL DIVISION

FMD USE ONLY	Facility Number: 36768
Upgrade/Initial Date: 9/13/92	Release Number: 3-1524-92
Date Entry Clerk Initials & Date: [initials]	0-1524-92

Person Reporting Release:

Joel Parker

Company (if not owner/operator)

The Traverse Group

Telephone (Include Area Code): (313) 747-9300

I. OWNERSHIP OF TANKS

II. LOCATION OF TANKS

IF NEW OWNERS ADDRESS, PLEASE CHECK

OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)

OWNER NAME (2ND LINE)

STREET ADDRESS

CITY STATE ZIP

TELEPHONE (INCLUDE AREA CODE)

CONTACT PERSON

IF SAME AS SECTION I, PLEASE CHECK

FACILITY NAME OR CO. SITE IDENTIFIER

STREET ADDRESS (P.O. BOX NOT ACCEPTABLE)

CITY STATE ZIP

COUNTY TOWNSHIP

TELEPHONE (INCLUDE AREA CODE)

Date Release Discovered: 9/10/92

Time Release Discovered: 11:10am

Size of Tank (gallons)	Substance Released	Construction of Tank	Reason for Believing Release Occurred: (presence of product, failed tightness test, vapors, stains)
12,000	Gas	Steel	Removal ovm
12,000	Diesel		

RECEIVED

OCT 09 1992

ANN ARBOR FIRE DEPT.

Date/Time Reported (FMD USE ONLY): 9/10/92
 TA FAX Voice Mail
 Authorized Signatures: [Signature]

ATTENTION: SEE REVERSE SIDE FOR INSTRUCTIONS

10:56am

DISTRIBUTION:
 WHITE: FIRE MARSHAL DIVISION, HAZARDOUS MATERIALS SECTION
 CANARY: FIRE MARSHAL DIVISION, FIELD OFFICE
 PINK: DEPT. OF MANAGEMENT & BUDGET
 GOLDENROD: OWNER
 FAX COPY: DMR FIELD OFFICE

AUTHORITY: 1984 PA 423
 COMPLIANCE: Required
 PENALTY: Misdemeanor. Civil Penalties not to exceed \$5,000 per day, per tank

FIRE PREVENTION BUREAU
ANN ARBOR FIRE DEPARTMENT
663-4130 663-4139

In accordance with the State of Michigan Flammable Liquids Regulations,
and the Flammable Liquids Regulations, City of Ann Arbor, Michigan, inspection
has been made of the below listed installation.

Address 2000 S. STATE

Type of Installation UNDERGROUND

Contractor HAROLD SMITH

Contractor's Address _____

Phone 1-11-79

Tank Construction STEEL w/ BAG

Permit No. _____

Tank Numbers:

1. 502242 Size 12000

2. _____ Size _____

3. _____ Size _____

4. _____ Size _____

Comments or Revisions _____

Approved

Not Approved

Date: _____

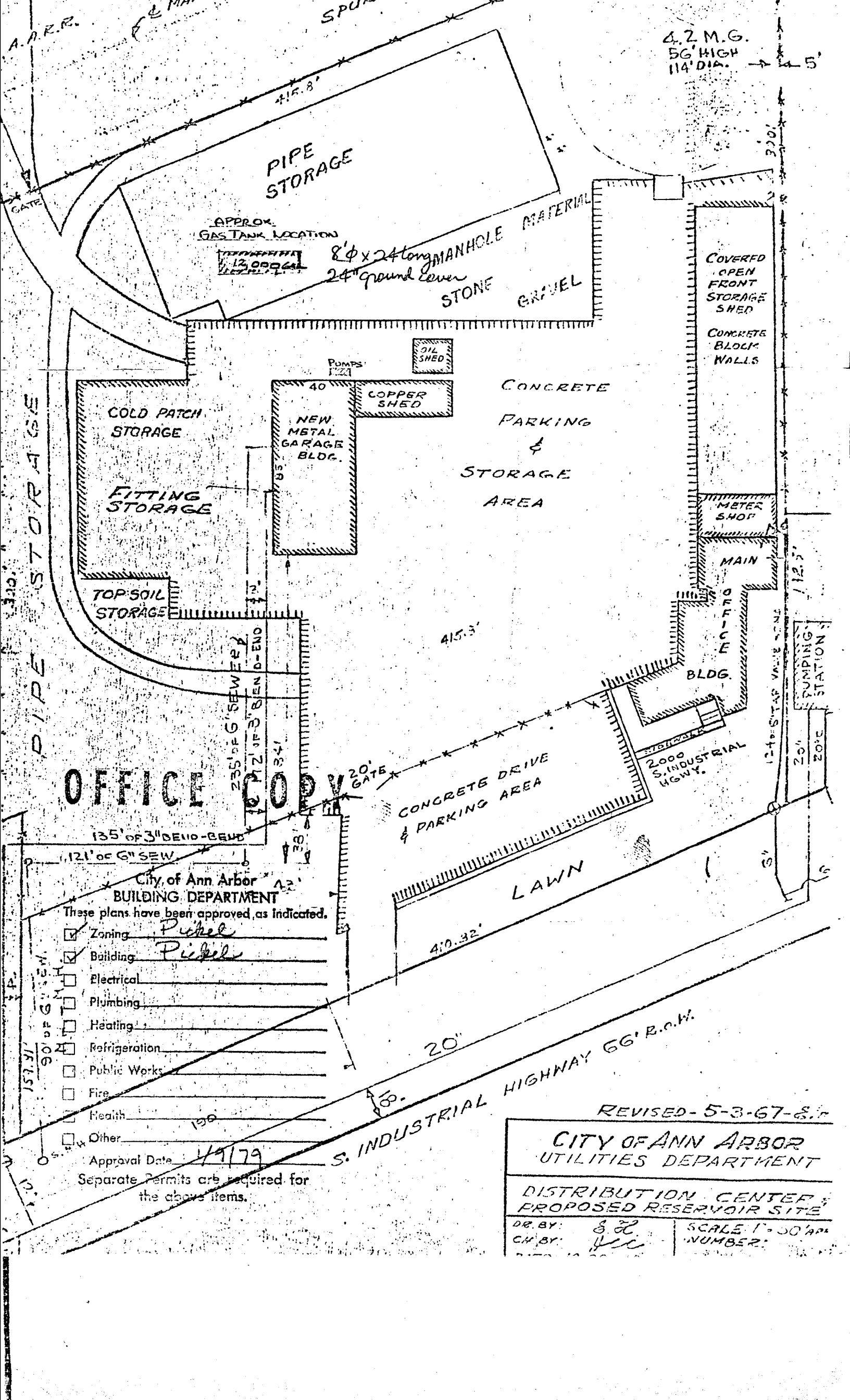
Area Sketch

SEE ATTACHED

W. PRATER

Fire Inspector

FIRE
DEPT
ANN ARBOR
MICH



4.2 M.G.
56' HIGH
114' DIA. → 45'

PIPE STORAGE

APPROX. GAS TANK LOCATION
12' Ø GAL

8" φ x 24' long MANHOLE MATERIAL
24" ground cover
STONE GRAVEL

COVERED OPEN FRONT STORAGE SHED
CONCRETE BLOCK WALLS

COLD PATCH STORAGE

FITTING STORAGE

TOP SOIL STORAGE

NEW METAL GARAGE BLDG.

COPPER SHED

CONCRETE PARKING & STORAGE AREA

METER SHOP

MAIN

OFFICE BLDG.

OFFICE COPY

CONCRETE DRIVE & PARKING AREA

LAWN

2000 S. INDUSTRIAL HWY.

City of Ann Arbor BUILDING DEPARTMENT

These plans have been approved, as indicated.

- Zoning *Pickel*
- Building *Pickel*
- Electrical
- Plumbing
- Heating
- Refrigeration
- Public Works
- Fire
- Health
- Other

Approval Date: *4/9/79*

Separate Permits are required for the above items.

S. INDUSTRIAL HIGHWAY 66' R.O.W.

REVISED - 5-3-67 - 8.7

CITY OF ANN ARBOR UTILITIES DEPARTMENT

DISTRIBUTION CENTER & PROPOSED RESERVOIR SITE

DR. BY: *SJC* | SCALE: 1" = 30' APP.
CH. BY: *HC* | NUMBER:



CITY OF ANN ARBOR, MICHIGAN

111 N. Fifth Avenue, Ann Arbor, Michigan 48104
Phone (313) 994-2772

Ann Arbor Fire Department

June 29, 1988

ROBERT SMOLINSKI
Safety and Training Officer
Risk Management
City Center Building, LL

Re: 2000 S. Industrial
City Utilities Department

Dear Bob,

For your information, the following list of violations and recommendations were revealed during the course of our inspection of the above mentioned facility:

Office Area:

1. Exit lights were not functioning - need repair.
2. All electrical panels and equipment shall be accessible, free and clear of all storage.
3. Recommend use of fused multiple electrical receptacle as opposed to unfused type.

Fuel Dispensing Area: The following are recommendations

4. Protective barriers should be placed in front of pumps.
5. Spill protection at fill lines for underground tanks.
6. Diking around above ground diesel fuel storage tank. (1000 gal)
7. Emergency break-a-way couplings on fuel dispensing hose lines.
8. Recoil string on middle pump.
9. Emergency shut off switch should be labeled.

If I can be of any further assistance to you, feel free to contact me at 994-2772.

Sincerely,

ROBERT HARRIS, Fire Inspector
City of Ann Arbor
FIRE DEPARTMENT

RH/dvb

FIRE PREVENTION BUREAU
ANN ARBOR FIRE DEPARTMENT
663-4130 663-4139

In accordance with the State of Michigan Flammable Liquids Regulations, and the Flammable Liquids Regulations, City of Ann Arbor, Michigan, inspection has been made of the below listed installation.

Address 2000 So Industrial
Type of Installation underground
Contractor Keith Smith
Contractor's Address 1810 Orchard Phone 663-4783
Tank Construction Steel 1/4"
Permit No. 14966

Tank Numbers:

1. H-786304 Size 8X32 12,000 GAL CAP
2. _____ Size _____
3. _____ Size _____
4. _____ Size _____

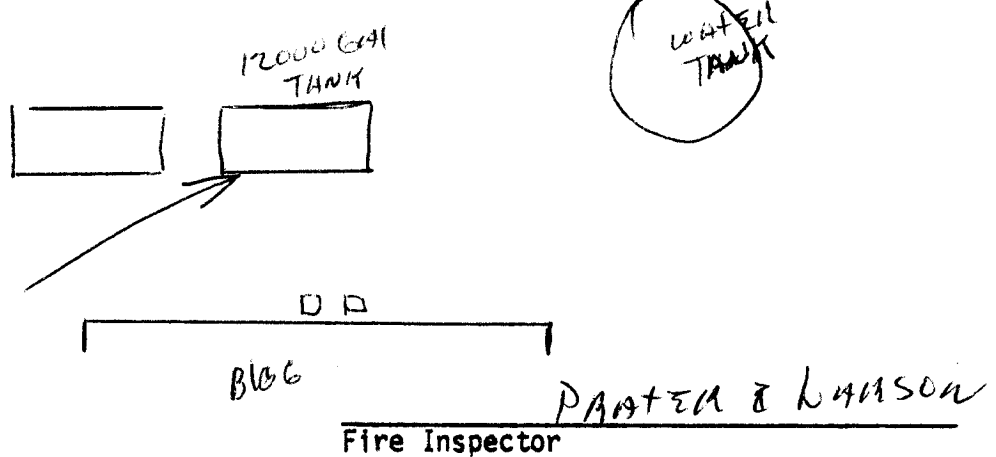
Comments or Revisions _____

Approved
 Not Approved

Date: 11/13/80

Area Sketch

TANK tested
11/6/80-1630 HR
516-PS: AIR
Jensen



Location 2000 S. INDUSTRIAL
Business Owner/Manager UTILITIES DEPT.
Name CITY OF ANN ARBOR Phone _____
Address _____
Building Owner _____ Phone _____
Construction Type _____ Number Stories _____

D. MEANS OF EGRESS
 Exit Lights - () Approved
 Emergency Lights - () Approved
 Approved Exit Corridors
 Swing of Exit Doors
 Door Hardware/Closers
 Adequate Number Exits Each Floor
 Exit Corridors/Exit Doors Maintained

A. BUILDING
 Fire Walls Openings Protected
 Fire Doors Self-Closing
 Stairway Doors Self-Closing
 Elevators Pit Clean
 Other - Specify _____

E. SPECIAL USE/OCCUPANCY - SPECIFY
 _____ () Permit?
 Other _____

B. FIRE PROTECTION
 Stagnant Connection - () Accessible
 Sprinkler System, Partial - () Approved
 Sprinkler System, Complete - () Approved
 Standpipe System - () Approved
 Hose and Cabinets - () Approved
 Fire Pump
 Control Valves - Accessible/Operable
 Alarm System - () Approved
 Other Suppression - Systems/Extinguishers

F. HEATING _____ TYPE _____

G. GENERAL MAINTENANCE
 Storage Areas _____
 Hazardous Conditions _____
 Other - Specify _____

C. ELECTRICAL
 Main Service Panel
 General Wiring Conditions
 Temporary Wiring/Extension Cords
 Other Electrical Conditions

Re-Inspection Necessary Violations Corrected
 Referral To Other Departments - Specify _____

 Additional Comments/Notes On Back

Inspector (s) HARRIS
POPER

Location 2000 South Industrial
Business Owner/Manager Hubert Haler Phone 662-9093
Name Hubert Haler Phone 662-9093
Address 2310 Prairie Phone 994-2666
Building Owner A.V. City Phone 994-2666
Construction Type M + W Number Stories

D. MEANS OF EGRESS
 Exit Lights - () Approved
 Emergency Lights - () Approved
 Approved Exit Corridors
 Swing of Exit Doors
 Door Hardware/Closers
 Adequate Number Exits Each Floor
 Exit Corridors/Exit Doors Maintained

A. BUILDING

- Fire Walls Openings Protected
- Fire Doors Self-Closing
- Stairway Doors Self-Closing
- Elevators Pit Clean
- Other - Specify _____

B. FIRE PROTECTION

- Stamese Connection - () Accessible
 - Sprinkler System, Partial - () Approved
 - Sprinkler System, Complete - () Approved
 - Standpipe System - () Approved
 - Hose and Cabinets - () Approved
 - Fire Pump
 - Control Valves - Accessible/Operable
 - Alarm System - () Approved
 - Other Suppression - Systems/Extinguishers
- ABC + Bc - April 1979

C. ELECTRICAL

- Main Service Panel
- General Wiring Conditions
- Temporary Wiring/Extension Cords
- Other Electrical Conditions

Inspector (s) KUICK

No Spray Paint Booth -
Musatic Acid Type - 35 gal of ZEP Formula 6556
Chemical Cleaner.
Found this acid in 2 crocks which have
cover them - also large Plastic Drums can with cover
about 7/8 full of same acid.

RE: 800 Taken
1-30-80 well
Amount of 10-80
Part of quantity
found at this
mine

E. SPECIAL USE/OCCUPANCY - SPECIFY

- Other _____ () Permit?

F. HEATING Gas Fired

- General Conditions _____
- Boiler Room Rated _____
- Follow-Up Inspection _____

TYPE Overhead Forced Air

G. GENERAL MAINTENANCE

- Storage Areas Made General Clean up.
- Hazardous Conditions _____
- Other - Specify _____
- Re-Inspection Necessary Violations Corrected
- Referral To Other Departments - Specify _____

Clean up needed at Electric Panels
in my own Building

Remove Combustibles from furnace Room.
in main building.
Garage - Needs general Clean up + Remove
Excess Hoses to be removed from garage area. No
Excess oil on top of 55 gal. drums. Top Smoking
Have East overhead unit checked, the area.



CITY OF ANN ARBOR MICHIGAN

219 East Huron Street, Ann Arbor, Michigan 48108

Phone (313) - 994-2772

Ann Arbor Fire Department

January 11, 1980

WAYNE H. ABBOTT
Utilities Department
City of Ann Arbor
City Hall
Ann Arbor, Michigan 48104

Dear Sir:

A fire inspection conducted at 2000 S. Industrial, Ann Arbor on January 10, 1980 revealed the following conditions that require your immediate attention:

- (1) The Spray Paint Booth is not being used in the Water Meter Repair Shop. No more paint spraying should be done in the building without the use of the Booth.
- (2) Any ZEP Formula 6556 Chemical Cleaner being used in crocks or other containers should have a tight cover on them.
- (3) Remove all combustibles from furnace room in the front part of the Main Office Building.
- (4) Clean up is needed where Electrical Panels are located in front part of the Main Office Building.
- (5) In Service Garage (South Building) general clean up is needed. Remove excess hoses not being used; remove excess oil on tops of 55-Gal. drums and keep area clean. Have Gas Fired Overhead Heater (East End Of Building) checked as there is evidence of black smudge on unit.

You are expected to correct the above mentioned items within ten (10) days of receipt of this letter. At that time, a re-inspection will be made. If this Department can be of any assistance to you, please contact the Fire Prevention Bureau at 994-2774.

Cordially,

DUANE D. LUICK, Fire Inspector
City of Ann Arbor Fire Department

DDL/sjo

VERBAL ORDERS DON'T GO

"SAY IT IN WRITING"

To Bud, Fire Marshal Date Oct 26 1964

Fire Inspection

[Handwritten initials]

RECEIVED
OCT 26 1964
UTILITIES DEPARTMENT

Signature *[Handwritten Signature]*

871 + ~~591~~
591

ANN ARBOR FIRE DEPARTMENT
FIRE PREVENTION BUREAU

DISTRICT: STATION #2

DATE 3-29, 1972 TIME

LOCATION 2000 INDUSTRIAL HWY
OCCUPANT CITY OF ANN ARBOR (UTILITIES DEPT.)
EXECUTIVE OFFICIAL WAYNE ABBOTT PHONE 665-8588
RESIDENCE 426 CREST AVE
BUILDING OWNER CITY OF ANN ARBOR PHONE
ADDRESS

BUILDING

OCCUPANCY

STORIES: 1 CONSTRUCTION BRICK
GARAGE - STEEL CONDITION GOOD
FIRE WALLS? YES OPENINGS PROTECTED? YES

HOUSEKEEPING? EXCELLENT

ELEVATOR SHAFTS: OPEN? CLOSED?
DOORS OPERATE PROPERLY?
FLOOR OPENINGS PROTECTED?
STAIRWAY DOORS SELF CLOSING?

ELEVATOR PIT CLEAN?
FLAMMABLE LIQUIDS? GASOLINE
WHERE STORED? U.G. TANKS
PERMITS?

EXITS: B, 1-2, 2, 3, 4, 5, 6, 7, 8, 9, 10
MARKED? No ADEQUATE? YES
PROPERLY MAINTAINED? YES

SPECIAL HAZARDS?
PAINT-OIL STORAGE - GARAGE

ROOF CONSTRUCTION Built-up
ACCESS? WHERE?

WELDING: LOCATION?

HEATING: How? GAS
CONDITION?

TYPE? PERMIT?
COMBUSTIBLE STORAGE: WHERE?

VENTILATION SYSTEM?
AIR CONDITIONING? OFFICES

ELECTRICAL CONDITIONS? GOOD

FLOORS OVERLOADED?
WHAT FLOORS?
REQUIRED PERMIT?

FIRE PROTECTION

SPRINKLER SYSTEM? WET DRY
SOURCES OF SUPPLY AND CAPACITY OF EACH?

CONDITIONS REFERRED TO OTHER DEPTS.

VALVES OPEN? SEALED?
CONTROL VALVES READILY ACCESSIBLE?

CONDITION OF SIAMESE CONNECTION?

REGARDING VIOLATIONS, INTERVIEWED?

OBSTRUCTED AT ANY POINT?

TITLE

STANDPIPE SYSTEM? WET DRY
SOURCE OF SUPPLY AND CAPACITY

REMARKS:

HOSE SIZE? CONDITION?

CAN FIRE DEPT. USE OUTLETS?

FIRE EXTINGUISHERS? CO2 - SA
FOAM - ABC

LAST SERVICE DATE? 1971

INSPECTOR: [Signature]

ADDITIONAL INFORMATION (OVER)

BUILDING INFORMATION

Address: 2000 Industrial Hwy

Occupant: CITY UTILITIES (Water & Parks)

Type Construction: MASONRY

No. offices or ~~units~~ 6

Exterior walls: Block

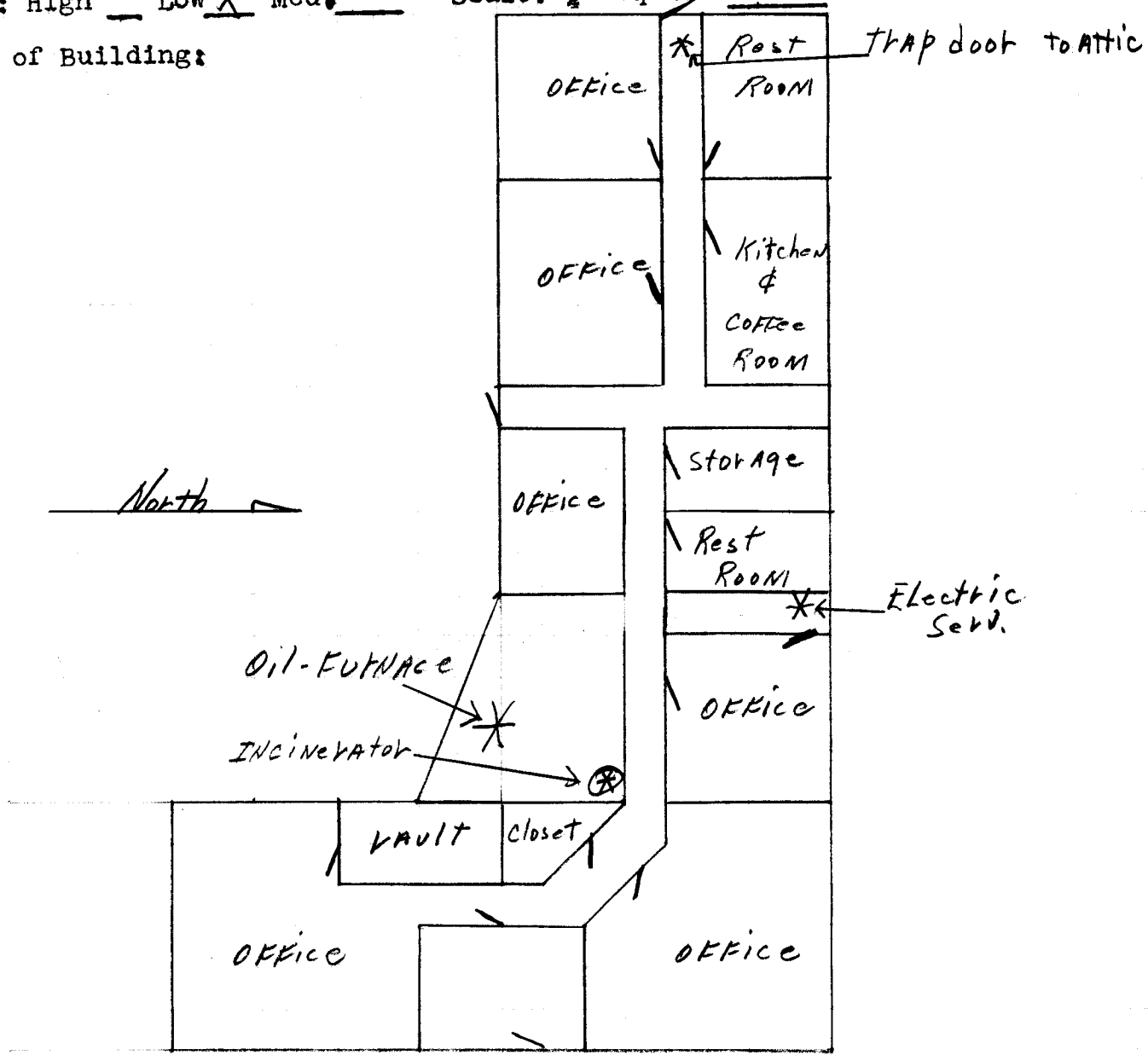
Roof: Built-up

No. floors: 1 Heating: Oil-Air Basement const.

Hazard: High Low X Med.

Scale: $\frac{1}{4}$ " equals 5 feet.

Sketch of Building:



Parking (Not to scale)

Remarks: _____

Inspector: Lee & Zahn

BUILDING INFORMATION

Address: 2000 Industrial Hwy Occupant: Water Dept.

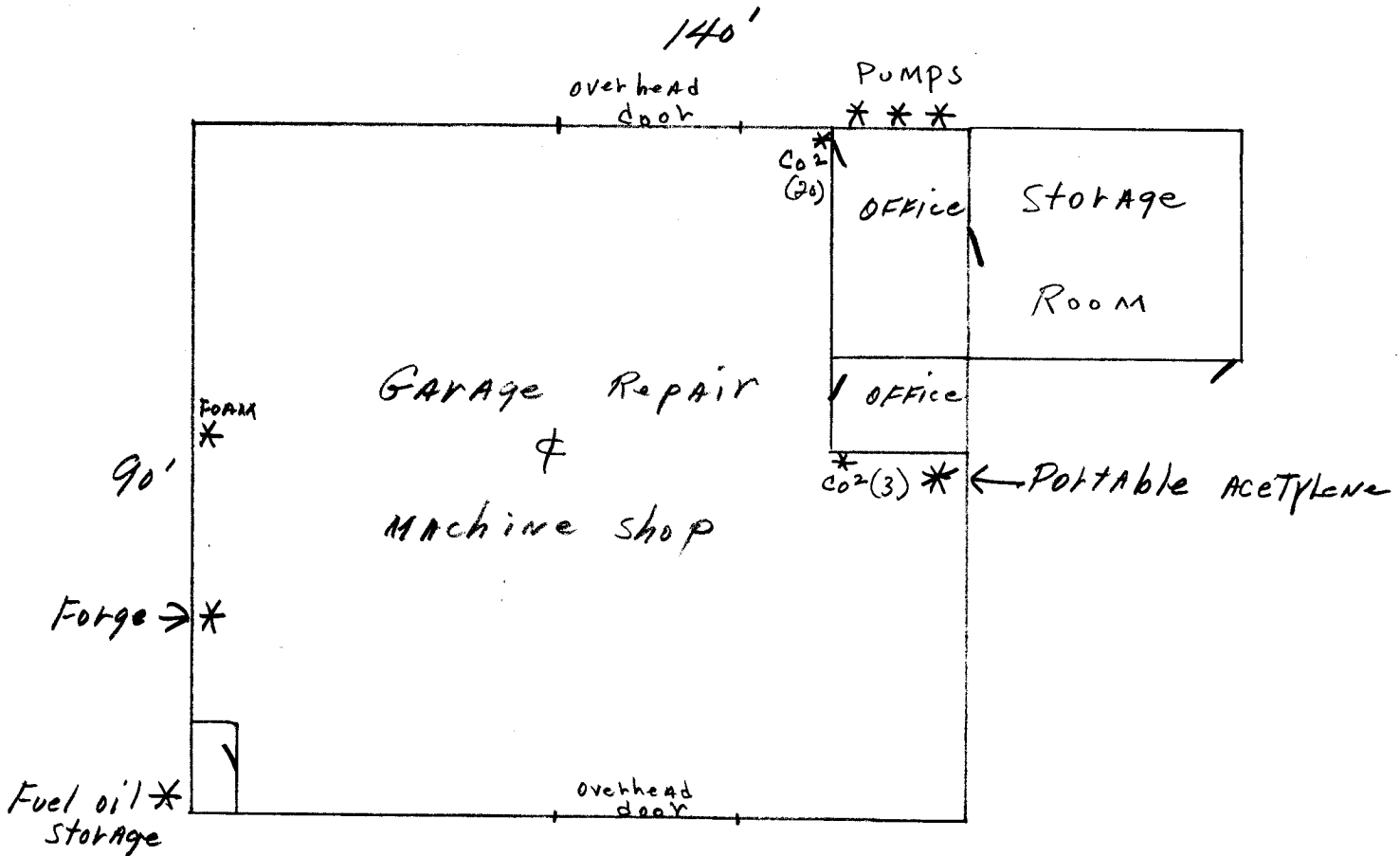
Type Construction: Cement Block No. offices or apts.

Exterior walls: Roof: Built-up

No. floors: 1 Heating: oil-air Basement const.

Hazard: High Low Med. X Scale: $\frac{1}{2}$ " equals 6 feet.

Sketch of Building:



Remarks:

 . Inspector: Lee & Zahn

BUILDING INFORMATION

Address: 2000 Industrial Hwy Occupant: City Utilities Dept.

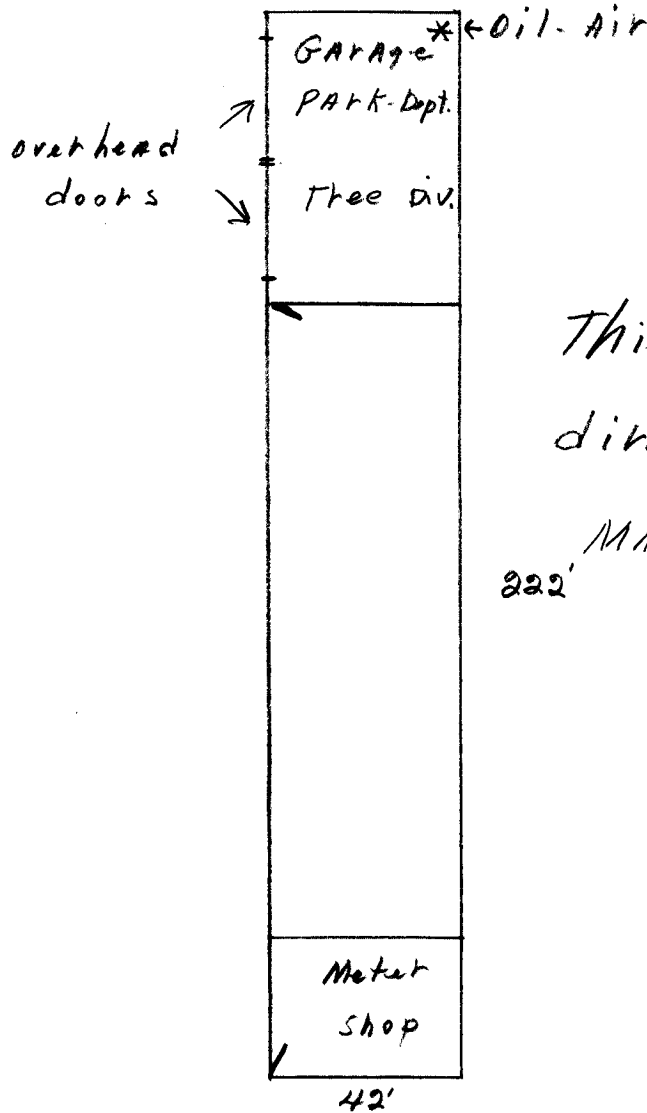
Type Construction: Cement & Steel No. offices or apts.

Exterior walls: Roof: Steel & Built-up

No. floors: 1 Heating: Oil-Air Basement const.

Hazard: High Low X Med. Scale: $\frac{1}{2}$ " equals 10' feet.

Sketch of Building:



This Bldg. located
directly AT REAR OF
MAIN OFFICE Bldg.
222'

Remarks:

. Inspector: Lee & Zahid

BUILDING INSPECTION

ADDRESS: 2000 INDUSTRIAL HWY.

OCCUPANTS: LEWIS FRISINGER COMPANY

TYPE CONSTRUCTION: WOOD

NO. OFFICES OR APTS: _____

BRICK: _____

ROOF: BUILT UP

EXTERIOR: FRAME Wood

PAPER and Tar

CONCRETE _____

OTHER _____

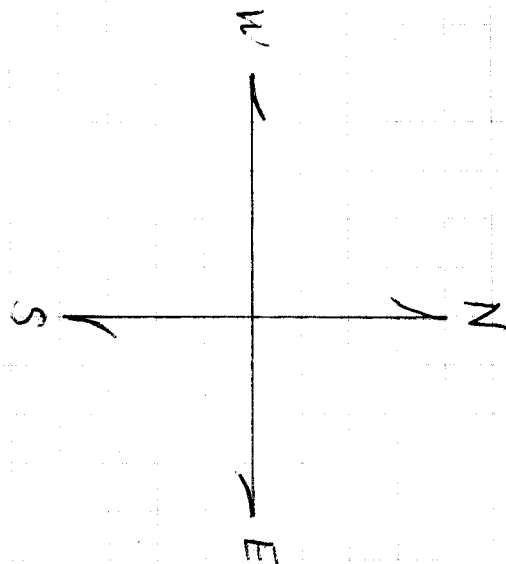
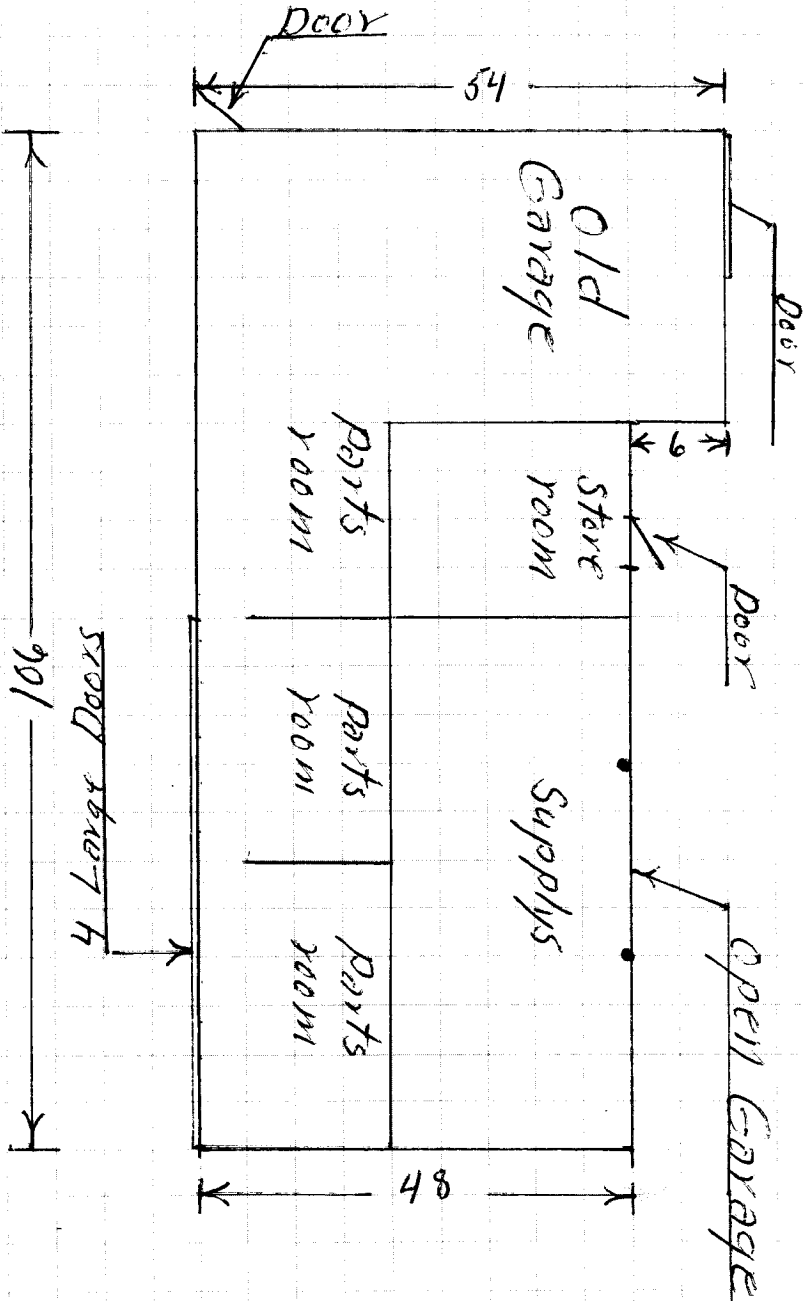
NO. FLOORS: One

HEATING: None

SIZE OF MAIN: _____ BASEMENT None

WALLS Wood

SCALE 1/4" EQUALS 5 FT.



HAZARDS: HIGH _____ MEDIUM X _____ LOW _____

REMARKS: _____

BUILDING INSPECTION

ADDRESS: 2000 INDUSTRIAL HWY.

OCCUPANTS: Storage LEWIS AND FRISINGER COMPANY

TYPE CONSTRUCTION: WOOD

NO. OFFICES OR APTS: _____

BRICK: _____

ROOF: BUILT UP Gable

EXTERIOR: FRAME WOOD

PAPER Wood and Tar

CONCRETE _____

OTHER _____

NO. FLOORS: One

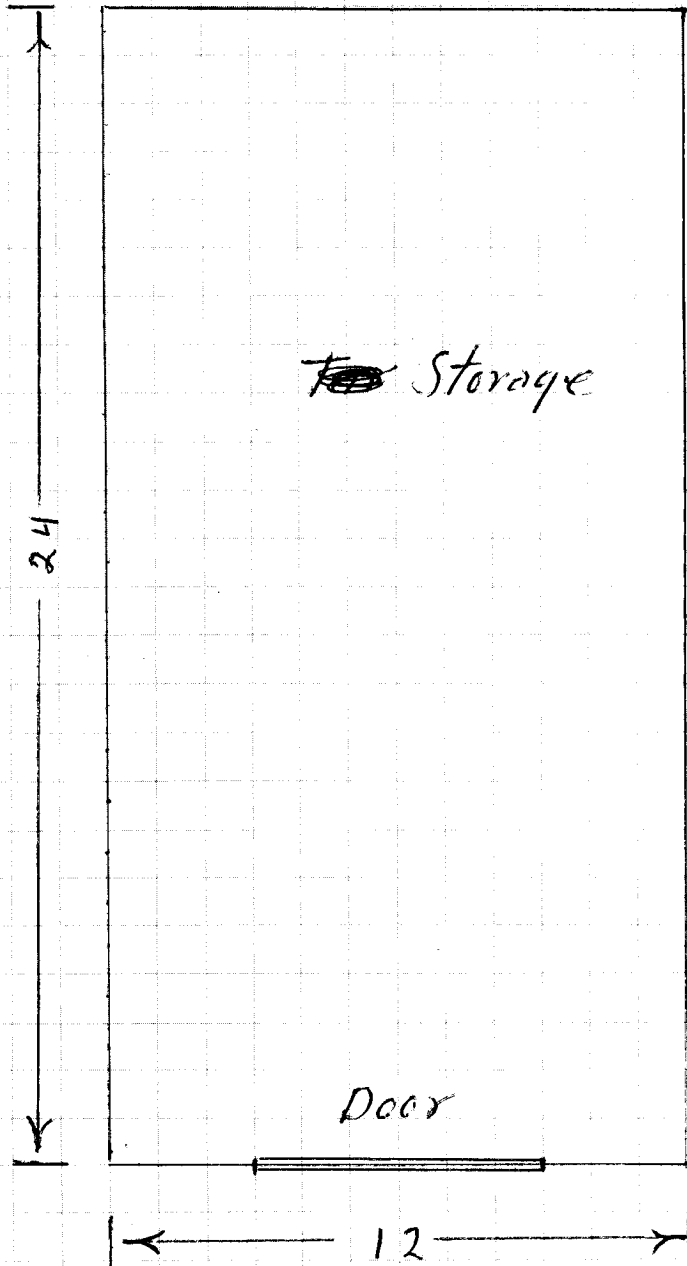
HEATING: ~~**~~ None

SIZE OF MAIN: _____

BASEMENT

WALLS Wood

SCALE $\frac{1}{4}$ " EQUALS one FT.



HAZARDS: HIGH _____ MEDIUM _____ LOW X _____

REMARKS: _____

MICH. STATE POLICE
MAY 11 1992
FIRE MARSHAL DIVISION
2ND DISTRICT HEADQUARTERS

STATE OF MICHIGAN



JOHN ENGLER, GOVERNOR
DEPARTMENT OF STATE POLICE
COL. MICHAEL D. ROBINSON, DIRECTOR

HM 026-92

4/92

FIRE MARSHAL DIVISION
GENERAL OFFICE BUILDING
7150 HARRIS DRIVE
LANSING, MICHIGAN 48913
PHONE: 517 322-1924

CITY OF ANN ARBOR
100 N. FIFTH AVENUE
PO BOX 8647
ANN ARBOR, MI 48107

Facility #:0-010237*921

TX:(313) 747-9300 MARK TUSSING
FACILITY NO: 0-010237
UTILITIES DEPT FIELD OFFICE CO:WASHTENAW
2000S INDUSTRIAL HWY
ANN ARBOR, MI 48104
REC'D: 05-04-92 REM: 06-04-92

Dear UST Owner/Operator:

We have received your notice of intent to permanently close/remove an underground storage tank (UST) system on or after the above closure/removal (REM) date. This approval notice is valid for a six month period, beginning on the closure/removal date indicated. Please call the Hazardous Materials Storage Inspector for your area to confirm the actual UST closure date (see attached map). Although not required, this affords an opportunity for the inspector to be present during closure if time and scheduling allows. Your notification does not guarantee that the inspector will be present.

If your UST is not currently registered (see facility ID# above) with the Fire Marshal Division, you MUST submit a completed registration form with a \$100 per tank fee prior to closure/removal. If or when your UST is properly registered with the Fire Marshal Division, you MUST submit an amended copy of the Michigan UST Registration Form AFTER the system has been properly closed/removed. This will ensure that your tank(s) are removed from the active UST database.

The Michigan Underground Storage Tank rules require that a site assessment be performed to determine if contamination has occurred. Site assessment records MUST be maintained for three (3) years, with a copy forwarded to the Enforcement unit. A site assessment is not required if you report a confirmed release to our office.

The UST must be removed from the ground. Closure in place by cleaning and filling 100% with a solid inert material (sand, concrete, gravel) is only permitted if the UST is located under a building or permanent structure, and removal would cause damage to that structure. It is the responsibility of the owner/operator to make this determination, to document it, and to retain this pertinent information. These requirements do not apply to UST's storing heating oil for consumptive use on the premises. However, the Fire Marshal Division recommends that all UST's that are permanently closed be removed from the ground.

Sincerely,

Capt. Wade E. Schaefer
State Fire Marshal

D/Lt. David T. Smith, Commander
Enforcement Unit

DTS:pw



A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY.

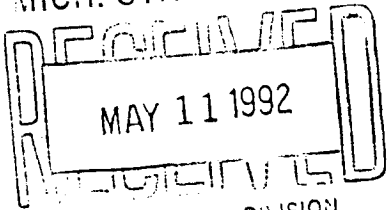


MICH. STATE POLICE

STATE OF MICHIGAN

HM 026-92

4/92



FIRE MARSHAL DIVISION

GENERAL OFFICE BUILDING
7150 HARRIS DRIVE
LANSING, MICHIGAN 48913

PHONE: 517 322 1924

JOHN ENGLER, GOVERNOR
DEPARTMENT OF STATE POLICE

COL. MICHAEL D. ROBINSON, DIRECTOR

FIRE MARSHAL DIVISION
2nd DISTRICT HEADQUARTERS

CITY OF ANN ARBOR
100 N. FIFTH AVENUE
PO BOX 8647
ANN ARBOR, MI 48107

Facility #:0-010238*1

TX:(313) 747-9300 MARK TUSSING
FACILITY NO: 0-010238
WATER TREATMENT PLANT CO:WASHTENAW
919 SUNSET ROAD
ANN ARBOR, MI 48103
REC'D: 05-04-92 REM: 06-04-92

Dear UST Owner/Operator:

We have received your notice of intent to permanently close/remove an underground storage tank (UST) system on or after the above closure/removal (REM) date. This approval notice is valid for a six month period, beginning on the closure/removal date indicated. Please call the Hazardous Materials Storage Inspector for your area to confirm the actual UST closure date (see attached map). Although not required, this affords an opportunity for the inspector to be present during closure if time and scheduling allows. Your notification does not guarantee that the inspector will be present.

If your UST is not currently registered (see facility ID# above) with the Fire Marshal Division, you MUST submit a completed registration form with a \$100 per tank fee prior to closure/removal. If or when your UST is properly registered with the Fire Marshal Division, you MUST submit an amended copy of the Michigan UST Registration Form AFTER the system has been properly closed/removed. This will ensure that your tank(s) are removed from the active UST database.

The Michigan Underground Storage Tank rules require that a site assessment be performed to determine if contamination has occurred. Site assessment records MUST be maintained for three (3) years, with a copy forwarded to the Enforcement unit. A site assessment is not required if you report a confirmed release to our office.

The UST must be removed from the ground. Closure in place by cleaning and filling 100% with a solid inert material (sand, concrete, gravel) is only permitted if the UST is located under a building or permanent structure, and removal would cause damage to that structure. It is the responsibility of the owner/operator to make this determination, to document it, and to retain this pertinent information. These requirements do not apply to UST's storing heating oil for consumptive use on the premises. However, the Fire Marshal Division recommends that all UST's that are permanently closed be removed from the ground.

Sincerely,

Capt. Wade E. Schaefer
State Fire Marshal

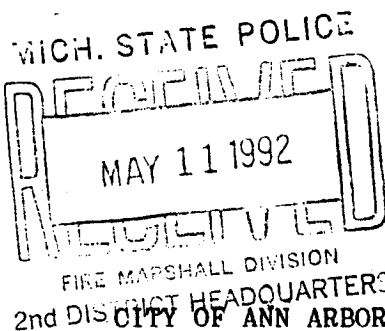
D/Lt. David T. Smith, Commander
Enforcement Unit

DTS:pw



A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY.





JOHN ENGLER, GOVERNOR
DEPARTMENT OF STATE POLICE
COL. MICHAEL D. ROBINSON, DIRECTOR

FIRE MARSHAL DIVISION
GENERAL OFFICE BUILDING
7150 HARRIS DRIVE
LANSING, MICHIGAN 48913
PHONE: 517 322-1924

FIRE MARSHAL DIVISION
2nd DISTRICT HEADQUARTERS
CITY OF ANN ARBOR
100 N. FIFTH AVENUE
PO BOX 8647
ANN ARBOR, MI 48107
Facility #:0-010244*921

TX:(313) 747-9300 MARK TUSSING
FACILITY NO: 0-010244
ANN ARBOR SANITARY LANDFILL CO:WASHTENAW
2800 E ELLSWORTH ROAD
ANN ARBOR, MI 48104
REC'D: 05-04-92 REM: 06-04-92

Dear UST Owner/Operator:

We have received your notice of intent to permanently close/remove an underground storage tank (UST) system on or after the above closure/removal (REM) date. This approval notice is valid for a six month period, beginning on the closure/removal date indicated. Please call the Hazardous Materials Storage Inspector for your area to confirm the actual UST closure date (see attached map). Although not required, this affords an opportunity for the inspector to be present during closure if time and scheduling allows. Your notification does not guarantee that the inspector will be present.

If your UST is not currently registered (see facility ID# above) with the Fire Marshal Division, you MUST submit a completed registration form with a \$100 per tank fee prior to closure/removal. If or when your UST is properly registered with the Fire Marshal Division, you MUST submit an amended copy of the Michigan UST Registration Form AFTER the system has been properly closed/removed. This will ensure that your tank(s) are removed from the active UST database.

The Michigan Underground Storage Tank rules require that a site assessment be performed to determine if contamination has occurred. Site assessment records MUST be maintained for three (3) years, with a copy forwarded to the Enforcement unit. A site assessment is not required if you report a confirmed release to our office.

The UST must be removed from the ground. Closure in place by cleaning and filling 100% with a solid inert material (sand, concrete, gravel) is only permitted if the UST is located under a building or permanent structure, and removal would cause damage to that structure. It is the responsibility of the owner/operator to make this determination, to document it, and to retain this pertinent information. These requirements do not apply to UST's storing heating oil for consumptive use on the premises. However, the Fire Marshal Division recommends that all UST's that are permanently closed be removed from the ground.

Sincerely,

Capt. Wade E. Schaefer
State Fire Marshal

D/Lt. David T. Smith, Commander
Enforcement Unit

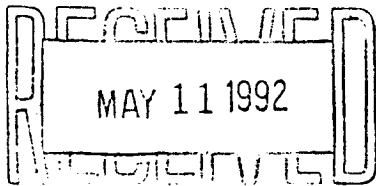
DTS:pw



A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY.



MICH. STATE POLICE



STATE OF MICHIGAN



JOHN ENGLER, GOVERNOR
DEPARTMENT OF STATE POLICE
COL. MICHAEL D. ROBINSON, DIRECTOR

HM 026-92

4/92

FIRE MARSHAL DIVISION

GENERAL OFFICE BUILDING
7150 HARRIS DRIVE
LANSING, MICHIGAN 48913

PHONE: 517 322-1924

FIRE MARSHAL DIVISION
2nd DISTRICT HEADQUARTERS

CITY OF ANN ARBOR
100 N. FIFTH AVENUE
PO BOX 8647
ANN ARBOR, MI 48107

Facility #:0-012808*921

TX:(313) 747-9300 MARK TUSSING
FACILITY NO: 0-012808
ANN ARBOR FIRE DEPT #1 CO:WASHTENAW
111 NORTH FIFTH AVE
ANN ARBOR, MI 48107
REC'D: 05-04-92 REM: 06-04-92

Dear UST Owner/Operator:

We have received your notice of intent to permanently close/remove an underground storage tank (UST) system on or after the above closure/removal (REM) date. This approval notice is valid for a six month period, beginning on the closure/removal date indicated. Please call the Hazardous Materials Storage Inspector for your area to confirm the actual UST closure date (see attached map). Although not required, this affords an opportunity for the inspector to be present during closure if time and scheduling allows. Your notification does not guarantee that the inspector will be present.

If your UST is not currently registered (see facility ID# above) with the Fire Marshal Division, you MUST submit a completed registration form with a \$100 per tank fee prior to closure/removal. If or when your UST is properly registered with the Fire Marshal Division, you MUST submit an amended copy of the Michigan UST Registration Form AFTER the system has been properly closed/removed. This will ensure that your tank(s) are removed from the active UST database.

The Michigan Underground Storage Tank rules require that a site assessment be performed to determine if contamination has occurred. Site assessment records MUST be maintained for three (3) years, with a copy forwarded to the Enforcement unit. A site assessment is not required if you report a confirmed release to our office.

The UST must be removed from the ground. Closure in place by cleaning and filling 100% with a solid inert material (sand, concrete, gravel) is only permitted if the UST is located under a building or permanent structure, and removal would cause damage to that structure. It is the responsibility of the owner/operator to make this determination, to document it, and to retain this pertinent information. These requirements do not apply to UST's storing heating oil for consumptive use on the premises. However, the Fire Marshal Division recommends that all UST's that are permanently closed be removed from the ground.

Sincerely,

Capt. Wade E. Schaefer
State Fire Marshal

D/Lt. David T. Smith, Commander
Enforcement Unit

DTS:pw



A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY.



RECEIVED

Michigan Department of State Police
Fire Marshal Division / Hazardous Materials Section
 P.O. Box 30157
 Lansing, MI 48909

SEP 16 1992

HAZARDOUS MATERIALS
PLAN REVIEW REPORT

ANN ARBOR FIRE DEPT.

<input type="checkbox"/> Preliminary	<input type="checkbox"/> Liquid Petroleum Gas (LPG)	<input type="checkbox"/> Other	FACILITY # 0030768
<input type="checkbox"/> Final	<input checked="" type="checkbox"/> Underground Storage Tank (UST)		NUMBER OF TANKS #1-2
	<input type="checkbox"/> Above ground (AG) Flammable/Combustible Liquids		
	<input type="checkbox"/> Compressed Natural Gas		

ARCHITECT/ENGINEER <input type="checkbox"/> Mr. Edward L. Hippe USTech Group 3220 Robert T. Longway Blvd. Flint, MI 48506	DATE August 25, 1992 FM USE ONLY INCIDENT NO. COMPLAINT #1-00-2589-00 JOB NO. JOB #
---	--

PROJECT: 1-15,000 gal. (Gasoline & Diesel) UST-Private Motor Fuel Dispensing.
 ADDRESS: City Of Ann Arbor, Utilities Field Serv. Div., 2000 S. Industrial, Ann Arbor
 COUNTY: Washtenaw

The information Submitted for the above project has been reviewed for compliance with the applicable Administrative Rules as indicated above.

THE INFORMATION IS: Acceptable as submitted Acceptable as noted below
 See comments below Unacceptable as noted below

1. Liquid tight containment is required under each dispenser. Section 4-2.12.
2. Each hose nozzle shall be equipped with a splash guard. Section 9-1.6
3. A line Leak detector must be provided if pressure piping system is used.

D/Lt. Curtis of our Fire Marshal's office in Northville, telephone number (313) 380-1100, must be notified to schedule a final inspection not less than seven calendar days before installation of the UST system as required in the rules.

Provide certification of compliance with the National Electrical Code at final inspection.

Pursuant to Act 423, Public Acts of 1984, it is the owner's responsibility that a tank registration form accompanied by a check for the \$100.00 per tank fee be forwarded to this office after the tank has been installed and prior to use.

If you have any questions, please contact the Technical Review Unit at (517) 322-1935 between the hours of 10:00 a.m. - 12:00 p.m. or 1:00 p.m. - 3:00 p.m.

M.T. Kadri
 Mike T. Kadri
 Technical Review Unit

cc: FMD Northville

WHITE - FM HQ
 CANARY - FM FIELD OFFICE
 PINK - FIRM

AUTHORITY : 1941 PA 207 & 1984 PA 423
COMPLIANCE : Required
PENALTY : Misdemeanor

RELEASE REPORT FORM

SUSPECTED CONFIRMED

(PLEASE CHECK ONE)

IMPLEMENTING AGENCY:
MICHIGAN STATE POLICE
FIRE MARSHAL DIVISION

FMD USE ONLY:

Upgrade/Cancel Date
Date Entry Clerk Initials & Date

Facility Number: 36918
Incident Number: 01394-92

Person Reporting Release:

Company (if not owner/operator):

Eric Holzer
The Truise Group Telephone (include Area Code): 313 747-9300

I. OWNERSHIP OF TANKS

IF NEW OWNERS ADDRESS, PLEASE CHECK

OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)
City of Ann Arbor
OWNER NAME (2ND LINE)
1000 On Fifth Avenue
STREET ADDRESS
Ann Arbor, MI 48107
CITY STATE ZIP
313 994-6696
TELEPHONE (INCLUDE AREA CODE)
Dan Cullen
CONTACT PERSON

II. LOCATION OF TANKS

IF SAME AS SECTION I, PLEASE CHECK

Utilities Field Services Div.
FACILITY NAME OR CO. SITE IDENTIFIER
~~XXXXXXXXXXXXXXXXXXXX~~
STREET ADDRESS (P.O. BOX NOT ACCEPTABLE)
Ann Arbor, MI
CITY STATE ZIP
Washtenaw
COUNTY TOWNSHIP
TELEPHONE (INCLUDE AREA CODE)

Date Release Discovered:

9/14/92

Time Release Discovered:

12:28 pm

Size of Tank (gallons)	Substance Released	Construction of Tank	Reason for Believing Release Occurred: (presence of product, failed tightness test, vapors, stains)
12,000	Diesel	Steel	

RECEIVED

SEP 23 1992

COMMENTS:

ANN ARBOR FIRE DEPT.

Date/Time Reported (FMD USE ONLY)
 OK FAX Voice Mail

9/15/92

Authorizing Signature

ATTENTION: SEE REVERSE SIDE FOR INSTRUCTIONS

12:23 pm

DISTRIBUTION:	FMD USE ONLY
WHITE	FIRE MARSHAL DIVISION, HAZARDOUS MATERIALS SECTION
PANARY	FIRE MARSHAL DIVISION, FIELD OFFICE
PINK	DEPT. OF MANAGEMENT & BUDGET
GOLDENROD	OWNER
FAX COPY	DNR FIELD OFFICE

AUTHORITY:	1984 PA 423
COMPLIANCE:	Required
PENALTY:	Misdemeanor. Civil Penalties not to exceed \$5,000 per day, per tank.

RELEASE REPORT FORM

(PLEASE CHECK ONE)

SUSPECTED CONFIRMED

Corrected Copy (Tank Description) Corrected copy Ket fac. number

IMPLEMENTING AGENCY:

MICHIGAN STATE POLICE
FIRE MARSHAL DIVISION

FMD USE ONLY	10/13
Upgrade/Cancel Date	6-15-92
Date Entry Clerk Initials & Date	RJZ OCT 09 1992

Person Reporting Release:

Eric Halzer

Company (if not owner/operator)

The Traverse Group

Telephone (Include Area Code)

(313) 747-9300

I. OWNERSHIP OF TANKS

II. LOCATION OF TANKS

IF NEW OWNERS ADDRESS, PLEASE CHECK

IF SAME AS SECTION I, PLEASE CHECK

OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)
City of Ann Arbor

OWNER NAME (INDIVIDUAL)
Job On, Fifth Avenue

STREET ADDRESS
Ann Arbor, Mi 48107

CITY STATE ZIP

313 994-6696

TELEPHONE (INCLUDE AREA CODE)

CONTACT PERSON
Dan Cullen

UTILITIES FIELD SERVICES DIV

FACILITY NAME OR CO. SITE IDENTIFIER
2000 S Industrial

STREET ADDRESS (P.O. BOX NOT ACCEPTABLE)
Ann Arbor, Mi

CITY STATE ZIP

Washtenaw

COUNTY TOWNSHIP

()

TELEPHONE (INCLUDE AREA CODE)

Date Release Discovered: 9/14/92

Time Release Discovered: 12:28 pm

Size of Tank (gallons)	Substance Released	Construction of Tank	Reason for Believing Release Occurred: (presence of product, failed tightness test, vapors, stains)
12,000	Diesel	Steel	OVM on Removal
12,000	Gas	Steel	

COMMENTS:

Date Reported (FMD USE ONLY) 9/15/92

ET FAX ET Voice Mail

Signature

ATTENTION: SEE REVERSE SIDE FOR INSTRUCTIONS

12:23 pm

DISTRIBUTION:	FMD USE ONLY
WARRANT	FIRE MARSHAL DIVISION, HAZARDOUS MATERIALS SECTION
COPY	FIRE MARSHAL DIVISION, FIELD OFFICE
GENERAL	DEPT. OF MANAGEMENT & BUDGET
OWNER	OWNER
FACTORY	DNR FIELD OFFICE

AUTHORITY: 1984 PA 423

COMPLIANCE: Required

PENALTY: Misdemeanor, Civil Penalties not to exceed \$5,000 per day, per tank

RELEASE REPORT FORM

(PLEASE CHECK ONE)

SUSPECTED CONFIRMED

Upgrade

Lab results Kit

IMPLEMENTING AGENCY:

MICHIGAN STATE POLICE
FIRE MARSHAL DIVISION

FMD USE ONLY

9/13/92
10/13/92
10/13/92

Person Reporting Release:

Joel Parker

Company (if not owner/operator)

The Truurse Group

Telephone (Include Area Code)

(313) 747-9300

I. OWNERSHIP OF TANKS

II. LOCATION OF TANKS

IF NEW OWNERS ADDRESS, PLEASE CHECK

Same

IF SAME AS SECTION I, PLEASE CHECK

OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)

OWNER NAME (2ND LINE)

STREET ADDRESS

CITY STATE ZIP

TELEPHONE (INCLUDE AREA CODE)

CONTACT PERSON

313) 994-6696

Dan Cullen

FACILITY NAME OR CO. SITE IDENTIFIER

STREET ADDRESS (P.O. BOX NOT ACCEPTABLE)

CITY STATE ZIP

COUNTY TOWNSHIP

TELEPHONE (INCLUDE AREA CODE)

City of Ann Arbor Utilities Field Services
2000 S Industrial
Ann Arbor, Mi 48104
Washtenaw

Date Release Discovered:

9/8/92

Time Release Discovered:

11:10am

Size of Tank (gallons)

Substance Released

Construction of Tank

Reason for Believing Release Occurred:
(presence of product, failed tightness test, vapors, stains)

~~*12,000*~~
12,000

~~*Gas*~~
Diesel

~~*Steel*~~

Removal OVM

COMMENTS:

Date/Time Reported (FMD USE ONLY)
 By FAX Voice Mail

9/13/92 Kit
10:56am

ATTENTION: SEE REVERSE SIDE FOR INSTRUCTIONS

DISTRIBUTION: FIRE MARSHAL DIVISION, HAZARDOUS MATERIALS SECTION
FIRE MARSHAL DIVISION, FIELD OFFICE
DEPT. OF MANAGEMENT & BUDGET
OWNER
DNR FIELD OFFICE

AUTHORITY: 1984 PA 423
COMPLIANCE: Required
PENALTY: Misdemeanor. Civil Penalties not to exceed \$5,000 per day, per tank.

RELEASE REPORT FORM

(PLEASE CHECK ONE)

SUSPECTED CONFIRMED

Corrected Copy
(tank Description)
Corrected copy Ket
fac. number

IMPLEMENTING AGENCY:

MICHIGAN STATE POLICE
FIRE MARSHAL DIVISION

FMD USE ONLY

Upgrade/Cancel Date

Date Entry Clerk Initials & Date

RJZ OCT 09 1992

10/13
1594-92

Person Reporting Release:

Eric Halzer

Company (if not owner/operator)

The Traverse Group

Telephone (Include Area Code)

(313) 747-9300

I. OWNERSHIP OF TANKS

IF NEW OWNERS ADDRESS, PLEASE CHECK

II. LOCATION OF TANKS

IF SAME AS SECTION I, PLEASE CHECK

OWNER NAME (CORPORATION, INDIVIDUAL, ETC.)

City of Ann Arbor

FACILITY NAME OR CO. SITE IDENTIFIER

Utilities Field Services Div
2000 S Industrial

OWNER NAME (2ND LINE)

100 On Fifth Avenue

STREET ADDRESS (P.O. BOX NOT ACCEPTABLE)

Ann Arbor, Mi

STREET ADDRESS

Ann Arbor, Mi 48107

CITY

STATE

ZIP

CITY

313 994-6696

COUNTY

Washtenaw

TOWNSHIP

TELEPHONE (INCLUDE AREA CODE)

Don Cullen

TELEPHONE (INCLUDE AREA CODE)

Date Release Discovered:

9/14/92

Time Release Discovered:

12:28 pm

Size of Tank (gallons)	Substance Released	Construction of Tank	Reason for Believing Release Occurred: (presence of product, failed tightness test, vapors, stains)
12,000	Diesel	Steel	OVM on Removal
12,000	Gas	Steel	

COMMENTS:

Date Report Received (FMD USE ONLY)

9/15/92

Authorizing Signature

[Signature]

ATTENTION: SEE REVERSE SIDE FOR INSTRUCTIONS

12:23 pm

DISTRIBUTION:

White
Carbon
Pink
Goldenrod
Fac Copy

FMD USE ONLY

FIRE MARSHAL DIVISION, HAZARDOUS MATERIALS SECTION
FIRE MARSHAL DIVISION, FIELD OFFICE
DEPT. OF MANAGEMENT & BUDGET
OWNER
OWNER'S OFFICE

AUTHORITY:
COMPLIANCE:
PENALTY:

1984 PA 423
Required
Misdemeanor. Civil Penalties
not to exceed \$5,000 per day,
per tank

(PLEASE CHECK ONE)

RELEASE REPORT FORM

SUSPECTED

CONFIRMED

Corrected copy 10/13/92 fac.
for Eric Helzer

Lab results Kit

IMPLEMENTING AGENCY:

MICHIGAN STATE POLICE
FIRE MARSHAL DIVISION

FMD USE ONLY
9/10/92
10/13/92

Person Reporting Release:

Joel Parker

Company (if not owner/operator)

The Traverse Group

Telephone (Include Area Code)

(313) 747-9300

I. OWNERSHIP OF TANKS

II. LOCATION OF TANKS

IF NEW OWNERS ADDRESS, PLEASE CHECK

Same

IF SAME AS SECTION I, PLEASE CHECK

OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)

OWNER NAME (2ND LINE)

STREET ADDRESS

CITY STATE ZIP

313, 994-6696

TELEPHONE (INCLUDE AREA CODE)

CONTACT PERSON

Dan Cullen

FACILITY NAME OR CO. SITE IDENTIFIER

STREET ADDRESS (P.O. BOX NOT ACCEPTABLE)

CITY STATE ZIP

COUNTY TOWNSHIP

TELEPHONE (INCLUDE AREA CODE)

City of Ann Arbor White's Field Services
2000 S Industrial
Ann Arbor, Mi 48104
Washtenaw

Date Release Discovered:

9/10/92

Time Release Discovered:

11:10am

Size of Tank (gallons)

Substance Released

Construction of Tank

Reason for Believing Release Occurred:

(presence of product, failed tightness test, vapors, stains)

~~12,000~~
12,000

~~Gas~~
Diesel

~~Steel~~

Removal OVM

COMMENTS:

DATE REPORT SUBMITTED (FMD USE ONLY)
BY: [Signature] DEFA

ATTENTION: SEE REVERSE SIDE FOR INSTRUCTIONS

10:56 AM

DISTRIBUTION: FMD USE ONLY
OWNER: FIRE MARSHAL DIVISION, HAZARDOUS MATERIALS SECTION
OWNER: FIRE MARSHAL DIVISION, FIELD OFFICE
OWNER: DEPT. OF MANAGEMENT & BUDGET
OWNER: OWNER
OWNER: FIELD OFFICE

AUTHORITY: 1984 PA 423
COMPLIANCE: Required
PENALTY: Misdemeanor. Civil Penalties not to exceed \$5,000 per day, per tank

5-636-89

MICHIGAN STATE POLICE FIRE MARSHAL DIVISION
UST PROGRAM
SUSPECTED/CONFIRMED RELEASE
Sec. 280.50/280.61 EPA Rules

RECEIVED

OCT 17 1989

Person Reporting Release _____ ANN ARBOR FIRE DEPT.

Location of Release

Facility Name City of Ann Arbor

Address 2006 S. Industrial

City/State/Zip Ann Arbor

County Washtenaw Township _____

Are Tanks Registered with State: Yes / No

Company Mailing Address

Address 100 N. Fifth Ave., P.O. 8647

City/State/Zip Ann Arbor, 48107

Contact Person Don Cullen Phone # 313/994-6693

Have you notified

DNR: Yes ___ No ___ Local Fire Department: Yes ___ No ___

Release Information

Type of tank _____ Capacity _____

Substance Released _____

Site Condition (Circle reason for believing a leak may have/has occurred)

Presence of product/vapors in soil/basements/failed tank tightness test

Unusual operating conditions (sudden loss of product/inventory records)

Other _____

DNR field office contacted via TX (date/time) _____

Local Fire Dept. contacted via TX (date/time) _____

Copy of this form sent to: DNR (field) FD (information only) ___

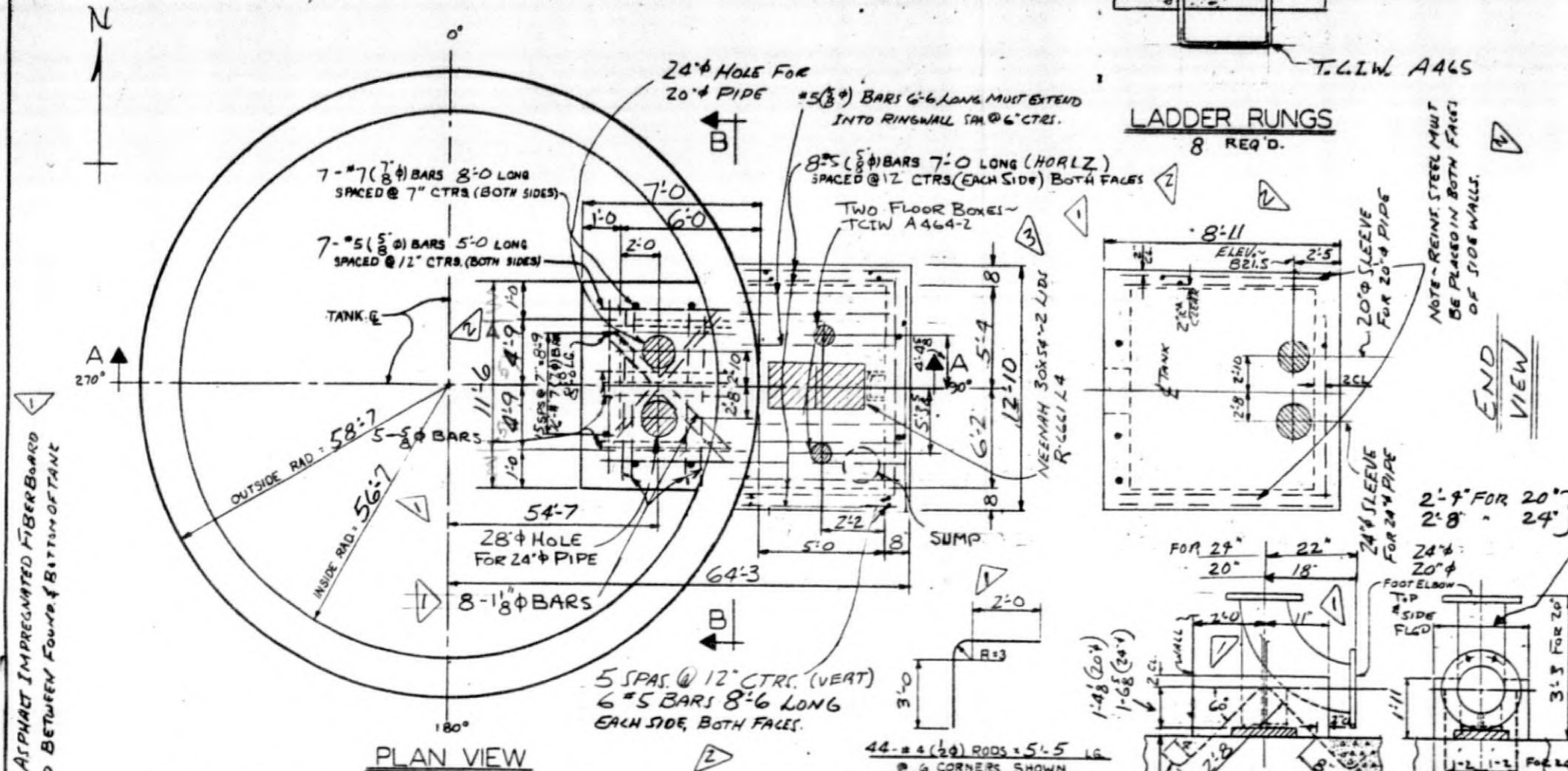
Financial Responsibility Letter Mailed _____ Date Received _____
(confirmed release only)

Person Receiving Information Mri Date/Time Received 9/19/89

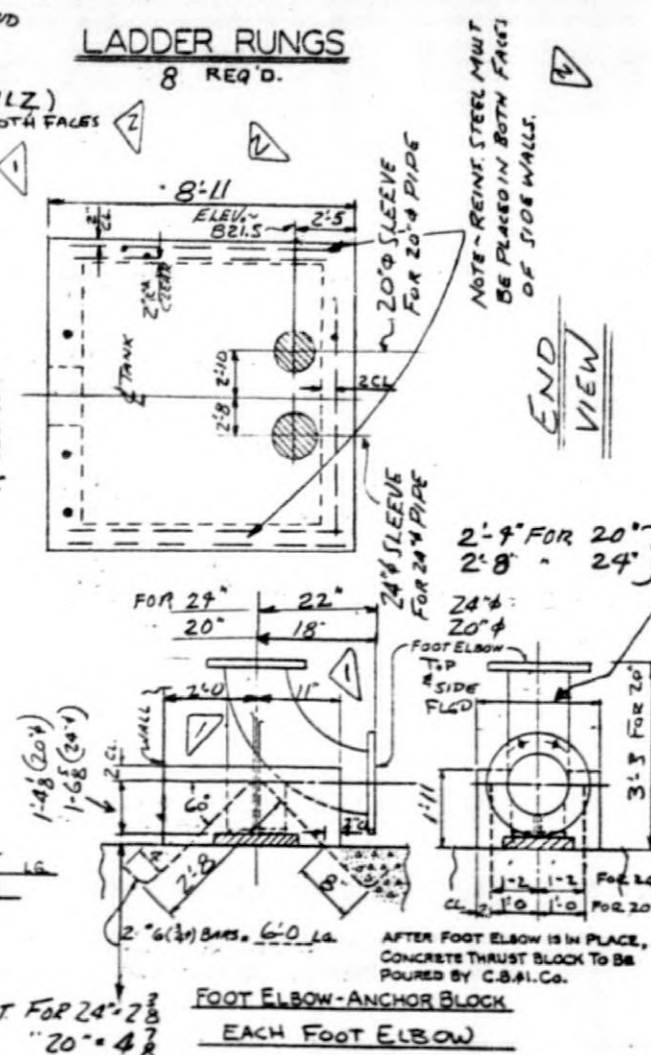
2000 S. Industrial Hwy.

NOT DRAWN TO SCALE

NOTE CAREFULLY



PLAN VIEW



SECTION B-B

1. REMOVE ALL TOP SOIL AND VEGETATION WITHIN THE AREA CONTAINED BY THE RING WALL.
2. BASE OF RING WALL MUST BE BELOW DEPTH OF MAXIMUM FROST PENETRATION.
3. BE SURE THAT THE BOTTOMS OF ALL FOOTINGS ARE UPON FIRM SOIL THAT WILL SAFELY SUSTAIN A LOAD OF 2500 LBS PER SQ. FT.
4. THE FOUNDATION FOOTINGS SHOWN ON THIS DRAWING HAVE BEEN DESIGNED ON THE ASSUMPTION THAT THE ABOVE CONDITIONS WILL BE STRICTLY FULFILLED. FOOTINGS SHALL BE REDESIGNED IF NECESSARY TO OBTAIN THESE RESULTS.
5. WHEREVER POSSIBLE, POUR SIDES OF RING WALL AGAINST UNDISTURBED SOIL, ESPECIALLY THE INSIDE FACE. WHERE IT IS NECESSARY TO USE FORMS FOR THE SIDES OF THE WALL, THE EXCAVATION MUST BE BACK FILLED AND THOROUGHLY COMPACTED.
6. FOOTINGS SHALL BE BUILT OF CONCRETE CONTAINING NOT LESS THAN 6 SACKS OF CEMENT PER CU. YD. AND NOT MORE THAN 6 GALLONS OF WATER PER SACK OF CEMENT, INCLUDING WATER CONTAINED IN THE AGGREGATE.
7. AGGREGATE WILL BE GOOD QUALITY SAND AND BROKEN STONE OR SCREENED GRAVEL.
8. REINFORCING STEEL TO BE DEFORMED INTERMEDIATE OR HARD GRADE IN ACCORDANCE WITH ASTM A15.
9. TOP SURFACE OF RING WALL MUST BE LEVEL WITHIN $\pm 1/8"$ (1/4" MAX. DIFFERENCE) WITHIN ANY 30' OF ARC AND WITHIN $\pm 1/4"$ (1/2" MAX. DIFFERENCE) AROUND ENTIRE PERIPHERY.
10. TOP PORTIONS OF THE RING WALL TO BE FINISHED SMOOTH TO A POINT 6 INCHES BELOW GROUND LEVEL ON OUTSIDE FACE.
11. VERTICAL CONSTRUCTION JOINTS IN RING WALLS ARE NOT PERMITTED. HOWEVER, JOINTS MAY BE MADE IN THE PIPE VAULT. IF THESE JOINTS ARE USED, PROVIDE A KEYWAY 1 3/8" \pm DEEP BY 3 5/8" \pm WIDE.
12. SPLICES IN HORIZONTAL REINFORCING BARS IN WALL MUST BE A MINIMUM OF 32 BAR DIAMETERS AND MUST BE STAGGERED.

2" THE ASPHALT IMPREGATED FIBER BOARD PLACED BETWEEN FOUNDATION & BOTTOM OF TANK

IMPORTANT NOTE
 SOIL - MUST CONFIRM TO CUT SPEC. TABLE 1-1 (1-2, IF 95% COMPACTION NOT FOUND SOIL MUST BE COMPACTED 16" WIDE X 6" STEEL WATER STOP PER CUST. SPEC. P. 2-3.

SECTION A-A

REFERENCE CITY OF ANN ARBOR DWG A266W2

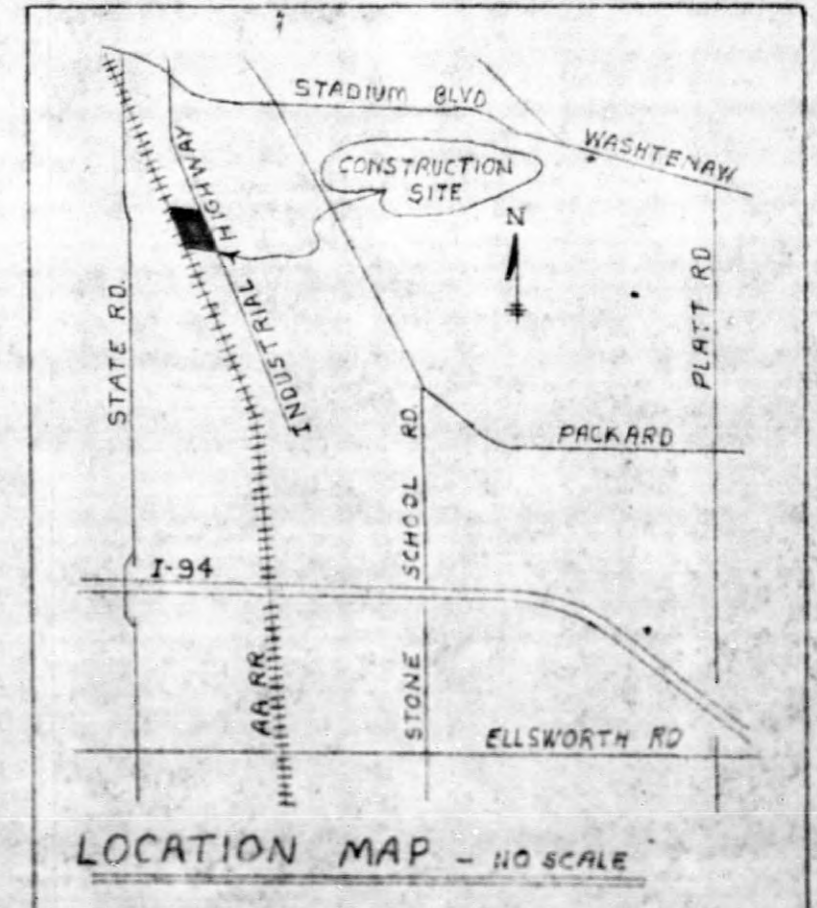
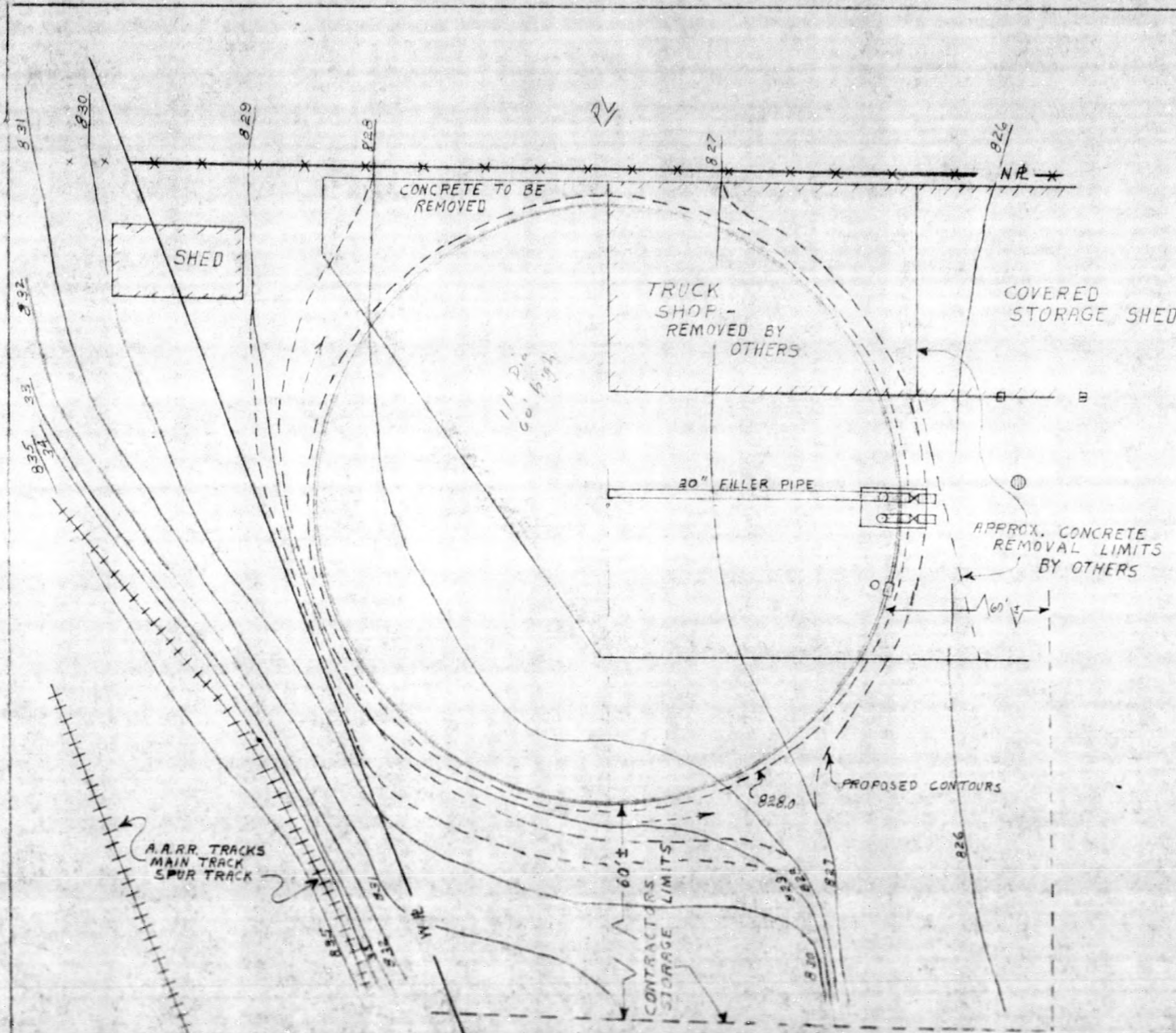
FOUNDATION TO BE CONSTRUCTED IN ACCORDANCE WITH CUST. SPECIFICATIONS.

APPROVED
 10-31-67
 SUBJECT TO SPECIFICATIONS

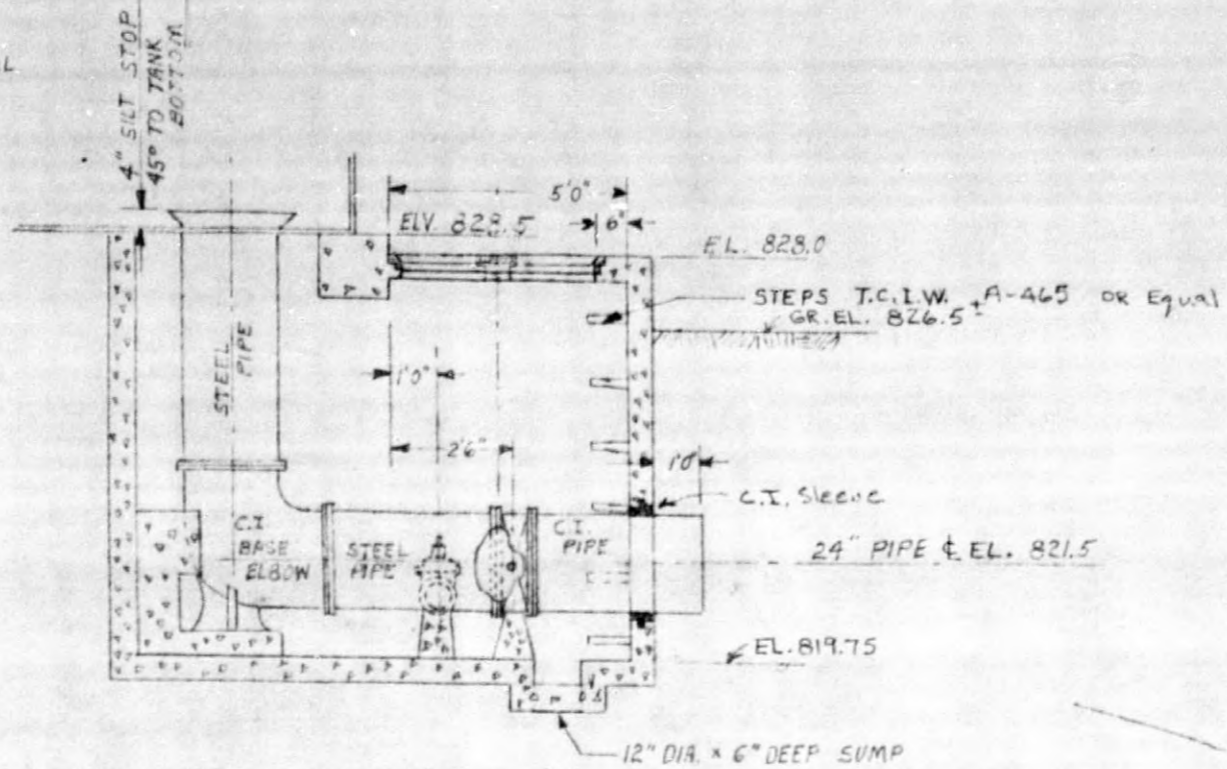
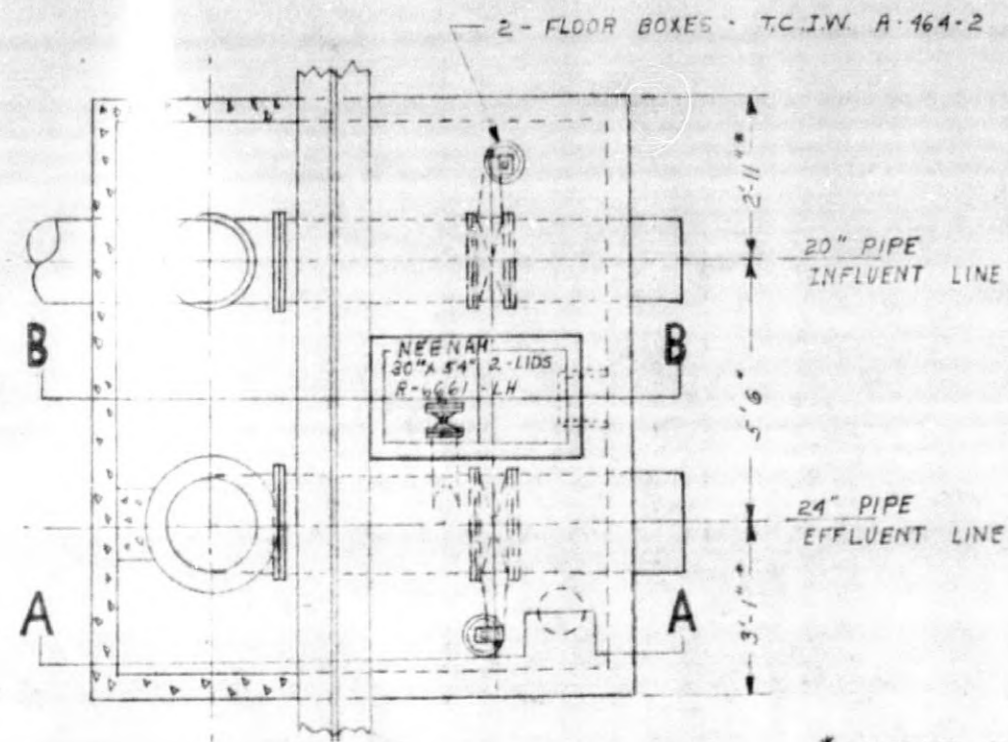
CHICAGO BRIDGE & IRON COMPANY
 FOUNDATION PLAN
 114'0" X 54'0" HIGH WATER LINE
 CITY OF ANN ARBOR
 ANN ARBOR, MICHIGAN
 9-8769

INDICATES CHANGE FROM PREVIOUS ISSUE

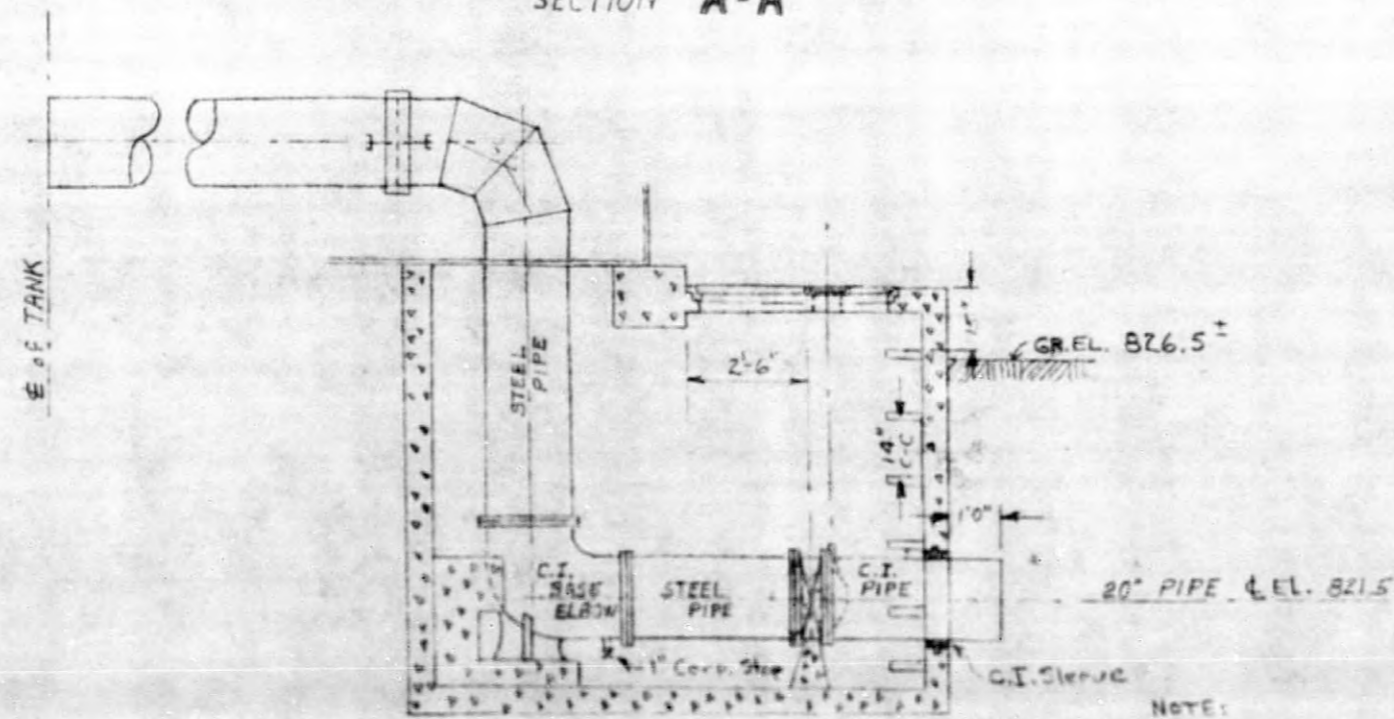
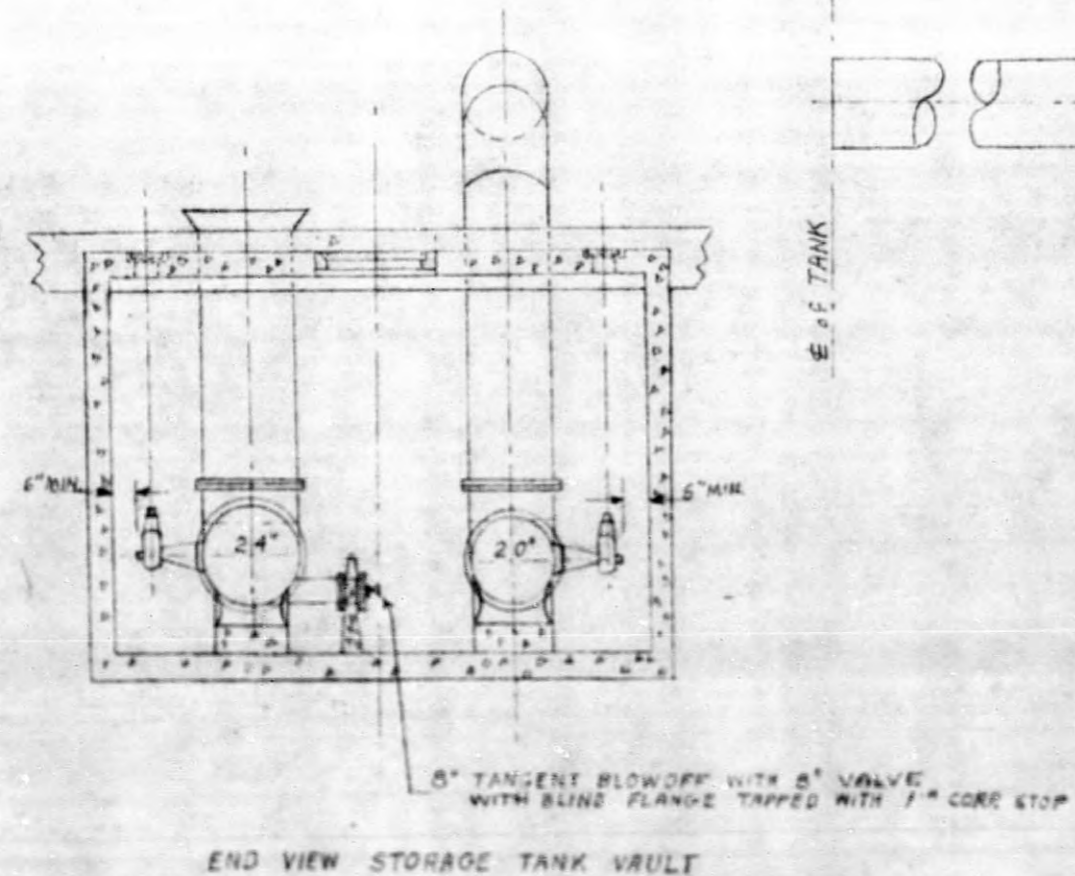
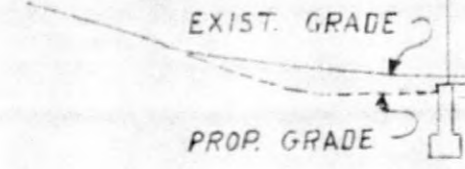
TWO COATS OF INERTOL STD. ON OUTSIDE VALVE VAULT



CITY OF ANN ARBOR UTILITIES DEPARTMENT				
RESERVOIR PLAN & LOCATION 2000 S. INDUSTRIAL HWY.				
SCALE	1" = 20'	DATE	REV	AUTH. NO.
DRAWN	20	7-31-47	Original	
CHECKED	J.L.S.	8-2-47		A-286 W-1



* DEPENDS ON EQUIPMENT FURNISHED



NOTE:
Provide two 2" steel sleeves & one 4" C.I. sleeve to be field located. The 4", 20" & 24" C.I. wall sleeves to be T.C.I.W. A-86 or Equal. T.C.I.W. = Traverse City Iron Works.

SCALE 1/4" = 1'-0"

24712

2000 S. Industrial Hwy.

9/26/67

Raze warehouse

Owner: City of Ann Arbor

Applicant: Stan's Wrecking Co.

Cost: \$720.00

Handwritten:
1-31-68
E 13

16686

2000 S. Industrial Hwy

12/24/63

Erect & repair vehcile area

Owner: City of Ann Arbor

Applicant: Eugene Kurtz

Cost: \$25,000

*OK Final
12-19-63
W.C.*

FIRE REPORT
CITY OF ANN ARBOR

Date: March 13, 1963 (Wednesday)

Time	Leave	Arrive	Return
A.M.			
P.M.	8:41	8:44	10:44

Watchman: # 1 - Calvert # 2 - Murphy

Alarm called in by: Party passing by

Weather conditions: 24 Degrees some ice on streets

Location: 2000 Industrial Highway

Occupant: City Water Dept. Garage (Wayne Abbott in charge)

Owner: City (Art Fry first man called by Fire Dept.)

Kind of property: Water Dept. Construction: Cement Block

Purpose used for: Garage (to House trucks & Crane)

Fire other than building: Equipment Stored in Garage

Where fire started: Not determined (Under Investigation)

Probable cause: Under Investigation

INSURANCE RECORD

Insured by: City

Losses: Building Extensive Contents: Extensive

EQUIPMENT USED

Apparatus responding: # 132 - # 112 - # 117 - # 151 - # 102 - # 103

Miles traveled: 1.3 Miles Size and feet of hose used See Other Side

Ladders used: 26 Ft. Extension Extinguishers: _____

Gas masks: 1 All Purpose Other equipment: _____

Remarks: (Give details) See other side

(Use other side if necessary)

Station # 1	FIREFMEN RESPONDING	Station # 2
1. <u>Carras</u>	8. <u>Hartlep</u>	15. <u>Martin</u>
2. <u>Soyfried</u>	9. <u>Calvert</u>	16. <u>Stotter</u>
3. <u>Parker</u>	10. <u>Lt. Fisher</u>	17. <u>Murphy</u>
4. <u>Rayburn</u>	11. <u>Ass't Chief Stauch</u>	18. <u>Baker</u>
5. <u>Cullen</u>	12. <u>Chief Heller</u>	19. <u>Moody</u>
6. <u>Heiber</u>	13. _____	20. <u>Worden</u>
7. <u>Kramer</u>	14. _____	21. <u>Lt. Merrill</u>
<u>Rutledge # 2 shift</u>		
Station: <u># 1</u>		Officer in charge at fire <u>Ass't Chief Stauch</u>

Lt. Merrill

Fire started Near the rear of garage, burning through a large portion of the roof. Extensive damage to other sections of roof, doors (over head) & room used as office. A farther check of truck, Crane & shovel would have to be made to determine extent of damage. Extensive damage to minor equipment tools & supplies.

Fire started in area near crane. Fire is under investigation to determine cause.

Equipment & hose used on fire:

3300 Ft. of 2 $\frac{1}{2}$ In hose used
300 Ft. of high pressure line
2 Flood lights
2 Lengths of extension cord
1 All purpose mask
26 Ft. Extension ladder

Minor Equipment

Hand lights
200 Ft. 1 $\frac{1}{2}$ In. hose
2 Light plants

Lt. Merrill

July 20, 1956

Mr. Albert J. Parker
Conlin Conlin and Parker
508 Ann Arbor Trust
Ann Arbor, Michigan

Dear Sir:

This is to notify you that the address known as
1110 Harpst has now been changed to 2000 Industrial Highway.

Respectfully,

John Ed Ryan, Director
Building & Safety Engineering

JER/dm

The Lewis & Frisinger Co.

**CERTIFICATE OF COMPLIANCE
AND
OCCUPANCY**

THE BUILDING LOCATED ON LOT NO. _____ SUB.

AND KNOWN AS NO. 1110 Harpst St. AVE.
ST.

SUBSTANTIALLY COMPLIES WITH ALL THE REQUIREMENTS OF THE BUILDING CODE

ZONING ORDINANCE

HOUSING LAW

AND MAY BE OCCUPIED AND USED FOR THE FOLLOWING PURPOSE: _____

Office Building

ISSUED February 10 1956

Signed John Ed Ryan

EXPIRES _____ 19____

Director of Dept.

df

CITY OF ANN ARBOR

DEPARTMENT OF BUILDING
AND SAFETY ENGINEERING

1549

Industrial Highway

6-3-55

Install - 3 - 20,000 gallon fuel oil tanks 10' Dia.
& 29'6" High.

Owner----- Koch & Sons Distributing Co.

Applicant----- H. Max Koch

Cost-----\$7,586

*20,000 gal
fuel oil storage tank*

file on Harpst St
COPY



March 2, 1955

Alderman Russell Burns, Chairman
Committee on Health, Parks and Water
Ann Arbor City Council
Ann Arbor, Michigan

Dear Alderman Burns:

Pursuant to your request a contact was made with the Lewis and Frisinger Company relative to their request to the Common Council for permission to install a septic tank sewage disposal system. The system proposed is to serve a contemplated small office building to be erected on their property at the south edge of the city near the Ann Arbor Railroad Tracks, on an approximate line with a westerly extension of Harpst Street.

Test holes were provided in the area of the proposed disposal field and an examination of them was made on February 23. The holes indicated a heavy loam soil which was completely saturated with water. The ground water level noted in holes located at the site of the proposed disposal field was only some 12 to 18 inches below the existing grade. It is probable that this water level will rise during the wetter months of the year.

It is completely impossible to get sewage from a private septic tank system to be absorbed into soil that is already completely filled with water. Although a small amount of fill is proposed for this site it is doubtful if the situation would be greatly improved during the wet spring months.

The soil and drainage conditions prevailing at this site do, in our opinion, render it unsuitable for a septic tank sewage disposal installation.

Very truly yours,

Joseph W. Price
Director of Sanitation

JWP/dc
cc: Lewis & Frisinger
Dept. of Building & Safety Engineering

2000 S. Industrial

2000 S. Industrial

CITY OF ANN ARBOR, MICHIGAN
 BUILDING DEPARTMENT
 100 NORTH FIFTH AVENUE 994-2674

BUILDING PERMIT

DATE October 21 19 80 PERMIT NO. 14966

APPLICANT Keith Smith ADDRESS 1810 Orchard AA (CONTR'S LICENSE)

PERMIT TO Tanks (TYPE OF IMPROVEMENT) () STORY (PROPOSED USE) NUMBER OF DWELLING UNITS

AT (LOCATION) 2000 S. Industrial (STREET) ZONING DISTRICT PL

BETWEEN (CROSS STREET) AND (CROSS STREET)

SUBDIVISION 12-04-200-13 LOT BLOCK LOT SIZE

BUILDING IS TO BE FT. WIDE BY FT. LONG BY FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE USE GROUP BASEMENT WALLS OR FOUNDATION (TYPE)

REMARKS: (29) Underground Gasoline Tanks

AREA OF VOLUME (CUBIC/SQUARE FEET) ESTIMATED COST \$ 990.00 PERMIT FEE \$ 12.00
 P.R. 3.00

OWNER City of Ann Arbor George W. Gardner R.A.
 ADDRESS 100 N. Fifth Ave. AA BY Director/cmt

Called
10/20/80

CITY OF ANN ARBOR, MICHIGAN
BUILDING DEPARTMENT
100 NORTH FIFTH AVENUE 994-2674

RECEIVED

OCT 16 1980

Building Department

APPLICATION FOR
PLAN EXAMINATION AND
BUILDING PERMIT

IMPORTANT - Applicant to complete all items in sections: I, II, III, IV, and IX.

I. LOCATION OF BUILDING	AT (LOCATION) <u>2000 S. Industrial Hwy.</u> ZONING DISTRICT <u>PL</u>
	BETWEEN <u>Stadium</u> AND <u>Eisenhower</u>
	(CROSS STREET) (CROSS STREET)
	SUBDIVISION <u>12-04-200-13</u> LOT _____ BLOCK _____ LOT SIZE _____

II. TYPE AND COST OF BUILDING - All applicants complete Parts A - D

A. TYPE OF IMPROVEMENT

- 1 New building
- 2 Addition (If residential, enter number of new housing units added, if any, in Part D, 13)
- 3 Alteration (See 2 above)
- 4 Repair, replacement
- 5 Wrecking (If multifamily residential, enter number of units in building in Part D, 13)
- 6 Moving (relocation)
- 7 Foundation only

D. PROPOSED USE - For "Wrecking" most recent use

Residential

- 12 One family
- 13 Two or more family - Enter number of units - - - - -
- 14 Transient hotel, motel, or dormitory - Enter number of units - - - - -
- 15 Garage
- 16 Carport
- 17 Other - Specify _____

Nonresidential

- 18 Amusement, recreational
- 19 Church, other religious
- 20 Industrial
- 21 Parking garage
- 22 Service station, repair garage
- 23 Hospital, institutional
- 24 Office, bank, professional
- 25 Public utility
- 26 School, library, other educational
- 27 Stores, mercantile
- 28 Tanks, towers
- 29 Other - Specify 12000 gal fuel oil tank

B. OWNERSHIP

- 8 Private (individual, corporation, nonprofit institution, etc.)
- 9 Public (Federal, State, or local government)

C. COST

- 10. Cost of improvement \$ 990.00
- To be installed but not included in the above cost
- a. Electrical.....
- b. Plumbing.....
- c. Heating, air conditioning.....
- d. Other (elevator, etc.).....
- 11. TOTAL COST OF IMPROVEMENT \$ 990.00

Nonresidential - Describe in detail proposed use of buildings, e.g., food processing plant, machine shop, laundry building at hospital, elementary school, secondary school, college, parochial school, parking garage for department store, rental office building, office building at industrial plant. If use of existing building is being changed, enter proposed use.

installation of underground tank, to be used for fuel oil (12,000 gal capacity)

III. SELECTED CHARACTERISTICS OF BUILDING - For new buildings and additions, complete Parts E - L; for wrecking, complete only Part J, for all others skip to IV.

E. PRINCIPAL TYPE OF FRAME	30 <input type="checkbox"/> Masonry (wall bearing)	G. TYPE OF SEWAGE DISPOSAL	40 <input type="checkbox"/> Public or private company	J. DIMENSIONS	48. Number of stories.....
	31 <input type="checkbox"/> Wood frame		41 <input type="checkbox"/> Private (septic tank, etc.)		49. Total square feet of floor area, all floors, based on exterior dimensions.....
F. PRINCIPAL TYPE OF HEATING FUEL	32 <input type="checkbox"/> Structural steel	H. TYPE OF WATER SUPPLY	42 <input type="checkbox"/> Public or private company	K. NUMBER OF OFF-STREET PARKING SPACES	50. Total land area, sq. ft.
	33 <input type="checkbox"/> Reinforced concrete		43 <input type="checkbox"/> Private (well, cistern)		51. Enclosed.....
I. TYPE OF MECHANICAL	34 <input type="checkbox"/> Other - Specify _____	L. RESIDENTIAL BUILDINGS ONLY	44 <input type="checkbox"/> Yes 45 <input type="checkbox"/> No	52. Outdoors.....	53. Number of bedrooms.....
	35 <input type="checkbox"/> Gas		46 <input type="checkbox"/> Yes 47 <input type="checkbox"/> No		
36 <input type="checkbox"/> Oil	Will there be central air conditioning?	Full.....	Partial.....		
37 <input type="checkbox"/> Electricity					
38 <input type="checkbox"/> Coal					
39 <input type="checkbox"/> Other - Specify _____					

NO. STREET

(2) Underground Gasoline Tank

CITY OF ANN ARBOR, MICHIGAN
 BUILDING AND SAFETY ENGINEERING DEPARTMENT
 100 NORTH 5TH AVENUE 994-2674

BUILDING PERMIT

DATE January 10, 19 79 PERMIT NO. 012699
 APPLICANT Harold E. Smith Station Maintenance ADDRESS 324 Highland Dr., Saline
(NO.) (STREET) (CONTR'S LICENSE)

PERMIT TO Install Underground tank STORY _____ NUMBER OF DWELLING UNITS _____
(TYPE OF IMPROVEMENT) NO. (PROPOSED USE)

AT (LOCATION) 2000 S. Industrial Hwy. ZONING DISTRICT PL
(NO.) (STREET)

BETWEEN _____ AND _____
(CROSS STREET) (CROSS STREET)

SUBDIVISION 12-04-200-13 LOT M/B BLOCK _____ LOT SIZE _____

BUILDING IS TO BE _____ FT. WIDE BY _____ FT. LONG BY _____ FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE _____ USE GROUP _____ BASEMENT WALLS OR FOUNDATION _____ (TYPE)

REMARKS: (29) Install underground storage tank

AREA OR VOLUME _____ ESTIMATED COST \$ 800.00 PERMIT FEE \$ 12.00
(CUBIC/SQUARE FEET) P.R. 3.00

OWNER City of Ann Arbor BUILDING DEPT. BY George W. Gardner, Director/id
 ADDRESS _____

RECEIVED

9/19

JAN 5 1979

BUILDING DEPARTMENT

APPLICATION FOR
 PLAN EXAMINATION AND
 BUILDING PERMIT

IMPORTANT - Applicant to complete all items in sections: I, II, III, IV, and IX.

I. LOCATION OF BUILDING

AT (LOCATION) 2000 So. INDUSTRIAL Hwy ZONING DISTRICT PL
(NO.) (STREET)

BETWEEN _____ AND _____
(CROSS STREET) (CROSS STREET)

SUBDIVISION 12-04-200-13 LOT M/B BLOCK _____ LOT SIZE _____

II. TYPE AND COST OF BUILDING - All applicants complete Parts A - D

A. TYPE OF IMPROVEMENT

1 New building
 2 Addition (If residential, enter number of new housing units added, if any, in Part D, 13)
 3 Alteration (See 2 above)
 4 Repair, replacement
 5 Wrecking (If multifamily residential, enter number of units in building in Part D, 13)
 6 Moving (relocation)
 7 Foundation only

B. OWNERSHIP

8 Private (individual, corporation, nonprofit institution, etc.)
 9 Public (Federal, State, or local government)

D. PROPOSED USE - For "Wrecking" most recent use

Residential	Nonresidential
12 <input type="checkbox"/> One family	18 <input type="checkbox"/> Amusement, recreational
13 <input type="checkbox"/> Two or more family - Enter number of units ----->	19 <input type="checkbox"/> Church, other religious
14 <input type="checkbox"/> Transient hotel, motel, or dormitory - Enter number of units ----->	20 <input type="checkbox"/> Industrial
15 <input type="checkbox"/> Garage	21 <input type="checkbox"/> Parking garage
16 <input type="checkbox"/> Carport	22 <input type="checkbox"/> Service station, repair garage
17 <input type="checkbox"/> Other - Specify _____	23 <input type="checkbox"/> Hospital, institutional
	24 <input type="checkbox"/> Office, bank, professional
	25 <input checked="" type="checkbox"/> Public utility
	26 <input type="checkbox"/> School, library, other educational
	27 <input type="checkbox"/> Stores, mercantile
	28 <input type="checkbox"/> Tanks, towers
	29 <input type="checkbox"/> Other - Specify _____

C. COST

10. Cost of improvement, *(Omit cents)* \$ 800 installat
To be installed but not included in the above cost
 a. Electrical _____
 b. Plumbing _____
 c. Heating, air conditioning _____
 d. Other (elevator, etc.) _____

11. TOTAL COST OF IMPROVEMENT \$ _____

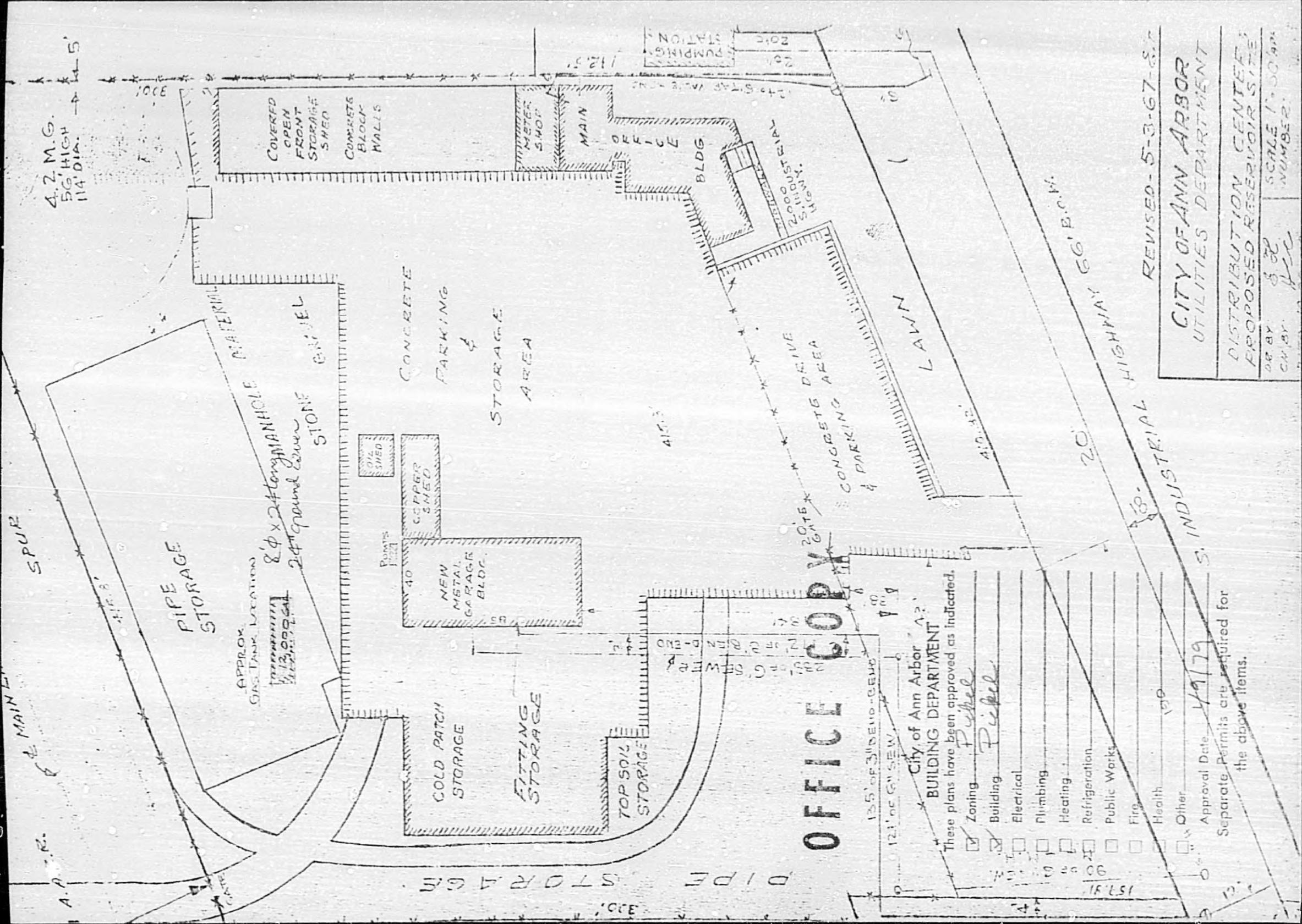
Nonresidential - Describe in detail proposed use of buildings, e.g., food processing plant, machine shop, laundry building at hospital, elementary school, secondary school, college, parochial school, parking garage for department store, rental office building, office building at industrial plant. If use of existing building is being changed, enter proposed use.

Install 1-12500 gal
4.5 tank for gasoline

III. SELECTED CHARACTERISTICS OF BUILDING - For new buildings and additions, complete Parts E - L, for wrecking, complete only Part J, for all others skip to IV.

E. PRINCIPAL TYPE OF FRAME	30 <input type="checkbox"/> Masonry (wall bearing)	G. TYPE OF SEWAGE DISPOSAL	40 <input type="checkbox"/> Public or private company	J. DIMENSIONS	48. Number of stories _____
	31 <input type="checkbox"/> Wood frame		41 <input type="checkbox"/> Private (septic tank, etc.)		49. Total square feet of floor area, all floors, based on exterior dimensions _____
F. PRINCIPAL TYPE OF HEATING FUEL	32 <input type="checkbox"/> Structural steel	H. TYPE OF WATER SUPPLY	42 <input type="checkbox"/> Public or private company	K. NUMBER OF OFF-STREET PARKING SPACES	50. Total land area, sq. ft. _____
	33 <input type="checkbox"/> Reinforced concrete		43 <input type="checkbox"/> Private (well, cistern)		51. Enclosed _____
I. TYPE OF MECHANICAL	34 <input type="checkbox"/> Other - Specify _____	L. RESIDENTIAL BUILDINGS ONLY	44 <input type="checkbox"/> Yes 45 <input type="checkbox"/> No	52. Outdoors _____	53. Number of bedrooms _____
	35 <input type="checkbox"/> Gas		46 <input type="checkbox"/> Yes 47 <input type="checkbox"/> No		54. Number of bathrooms
	36 <input type="checkbox"/> Oil				Full _____
	37 <input type="checkbox"/> Electricity				Partial _____
	38 <input type="checkbox"/> Coal				
	39 <input type="checkbox"/> Other - Specify _____				

NO. STREET



4.2 M.G.
56' HIGH
114' DIA.

PIPE STORAGE

APPROX. GAS TANK LOCATION

8' x 24' long MANHOLE
24" ground level
STONE GAS TANK

COLD PATCH STORAGE

FITTING STORAGE

TOP SOIL STORAGE

CONCRETE PARKING & STORAGE AREA

NEW METAL GARAGE BLDG.

COPPER SHED

METER SHED

OFFICE BLDG.

PIPE STORAGE

OFFICE COPY

City of Ann Arbor
BUILDING DEPARTMENT

These plans have been approved as indicated.

- Zoning *Pipe*
- Building *Pipe*
- Electrical
- Plumbing
- Heating
- Refrigeration
- Public Works
- Fire
- Health
- Other

Approval Date: 4/9/79
Separate Permits are required for the above items.

REVISED - 5-3-67-87
CITY OF ANN ARBOR
UTILITIES DEPARTMENT

DISTRIBUTION CENTER:
PROPOSED RESERVOIR SITE:
DES. BY: J.R.
CHK. BY: J.C.
SCALE: 1" = 50' (approx.)
NUMBER:

IV. IDENTIFICATION - To be completed by all applicants

	Name	Mailing address - Number, street, city, and State	ZIP code	Tel. No.
1. Owner or Lessee	Ecology Center	417 Detroit Street, Ann Arbor, Mi.	48104	761-3186
2. Contractor	Ecology Center	Same as above	Builder's License No.	
3. Architect or Engineer				

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and we agree to conform to all applicable laws of this jurisdiction.

Signature of applicant	Address	Application date
Karen Bottomley	417 Detroit Street, Ann Arbor, Mi. 48104	6/9/76

DO NOT WRITE BELOW THIS LINE

V. PLAN REVIEW RECORD - For office use

Plans Review Required	Check	Plan Review Fee	Date Plans Started	By	Date Plans Approved	By	Notes
BUILDING		S			6-15-76	TLA	
PLUMBING		S					
MECHANICAL		S					
ELECTRICAL		S					
OTHER		S					

VI. ADDITIONAL PERMITS REQUIRED OR OTHER JURISDICTION APPROVALS

Permit or Approval	Check	Date Obtained	Number	By	Permit or Approval	Check	Date Obtained	Number	By
BOILER					PLUMBING				
CURB OR SIDEWALK CUT					ROOFING				
ELEVATOR					SEWER				
ELECTRICAL					SIGN OR BILLBOARD				
FURNACE					STREET GRADES				
GRADING					USE OF PUBLIC AREAS				
OIL BURNER					WRECKING				
OTHER					OTHER				

VII. VALIDATION

Building Permit number _____

Building Permit issued _____ 19____

Building Permit Fee (1014) 14⁰⁰

Certificate of Occupancy \$ NO

Drain Tile \$ NO

Plan Review Fee \$ 350
1750

Approved by: Jerry S. Alexander

TITLE _____

VIII. ZONING PLAN EXAMINERS NOTES

DISTRICT

USE

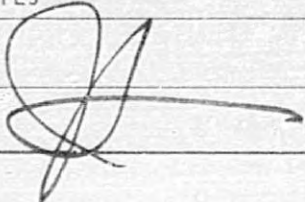
FRONT YARD

SIDE YARD

SIDE YARD

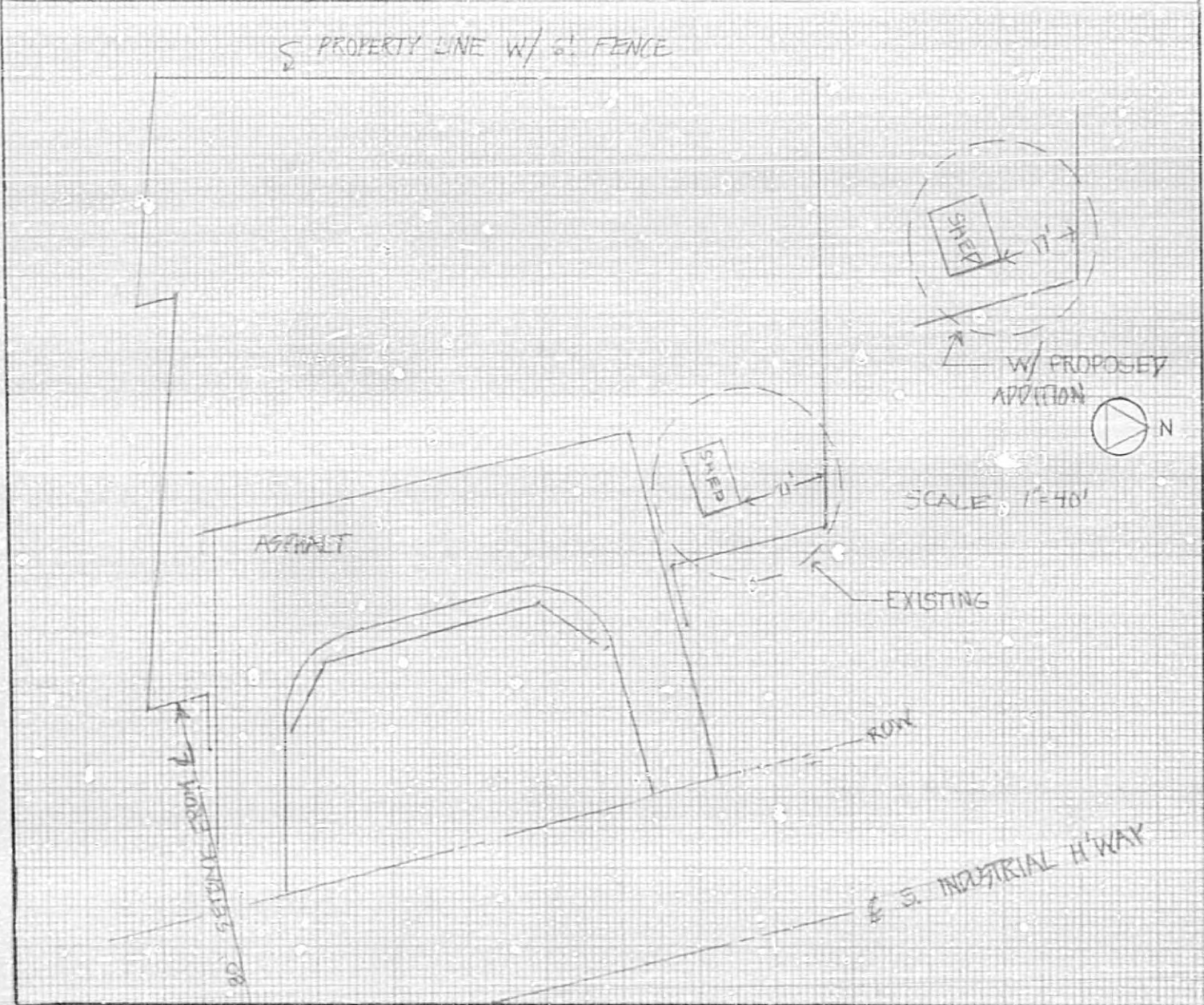
REAR YARD

NOTES



6-9-76

IX. SITE OR PLOT PLAN - For Applicant Use RECYCLING STATION - ECOLOGY CENTER OF ANN A.



PROPOSED IMPROVEMENTS FOR SHED

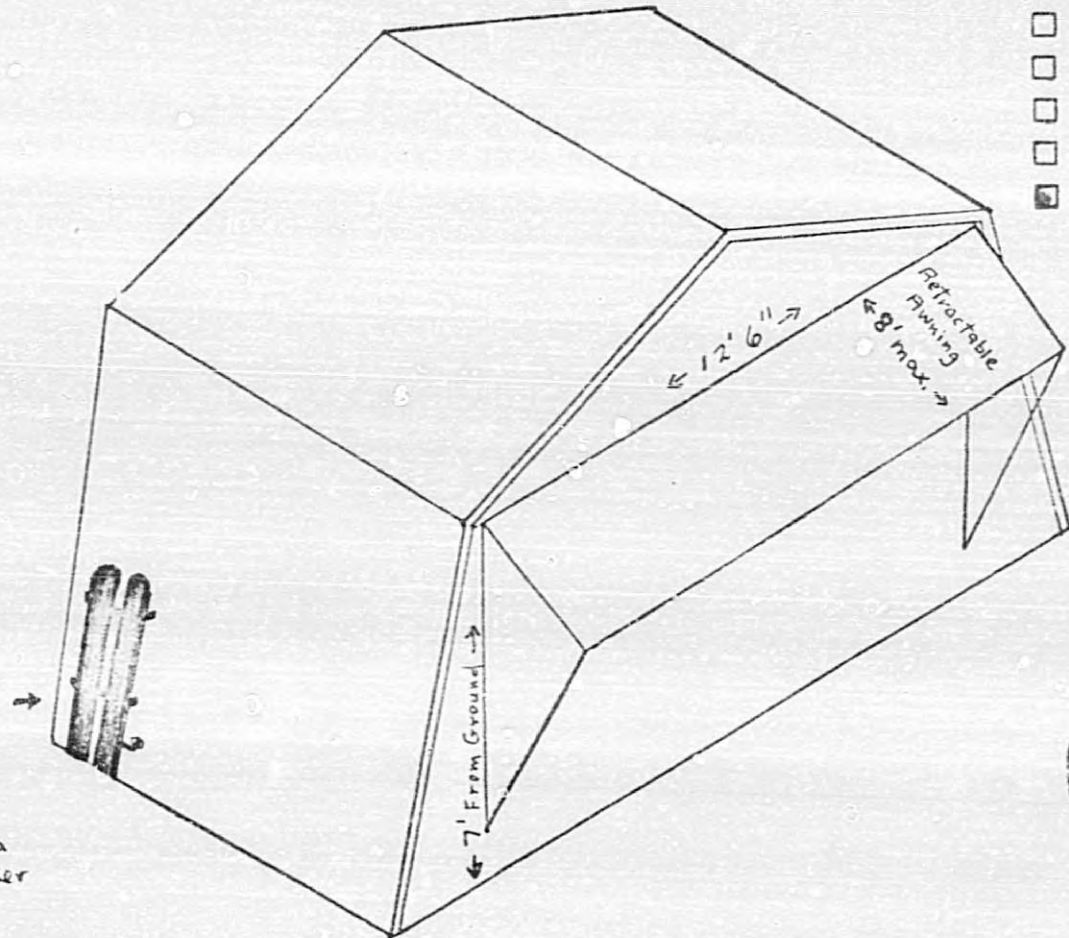
City of Ann Arbor
DEPT. OF BUILDING & SAFETY ENG.

These plans have been approved as indicated.

- Zoning LA
- Building LA
- Electrical N. APP.
- Plumbing N. APP.
- Heating LA
- Refrigeration N. APP.
- Public Works _____
- Fire _____
- Health _____
- Other _____

Approval Date 6.15.76

Separate Permits are required for the above items.

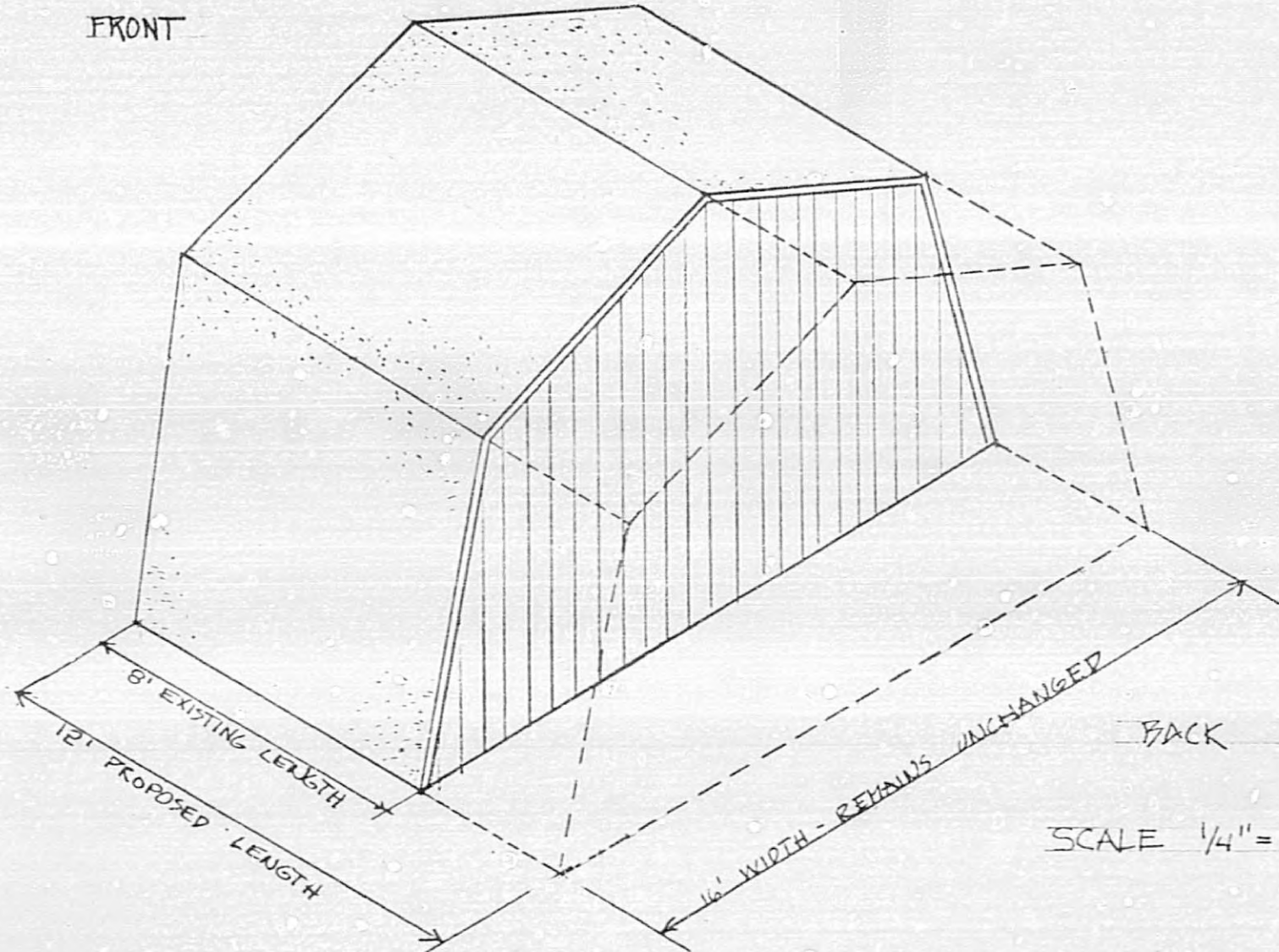


Two 100 pound tanks of liquid propane gas connected to a 25" tall heating unit inside shed. The unit has a direct vent system so no chimney is required; with a maximum of 15,000 BTUs per hour burning capacity.

FRONT

OFFICE COPY

PROPOSED ENLARGEMENT OF STRUCTURE - RECYCLING STATION



SCALE 1/4" = 1'

DRAWN BY THOMAS SCHRODT 6/7/76

VIII. ZONING PLAN EXAMINERS NOTES

DISTRICT

USE

FRONT YARD

SIDE YARD

SIDE YARD

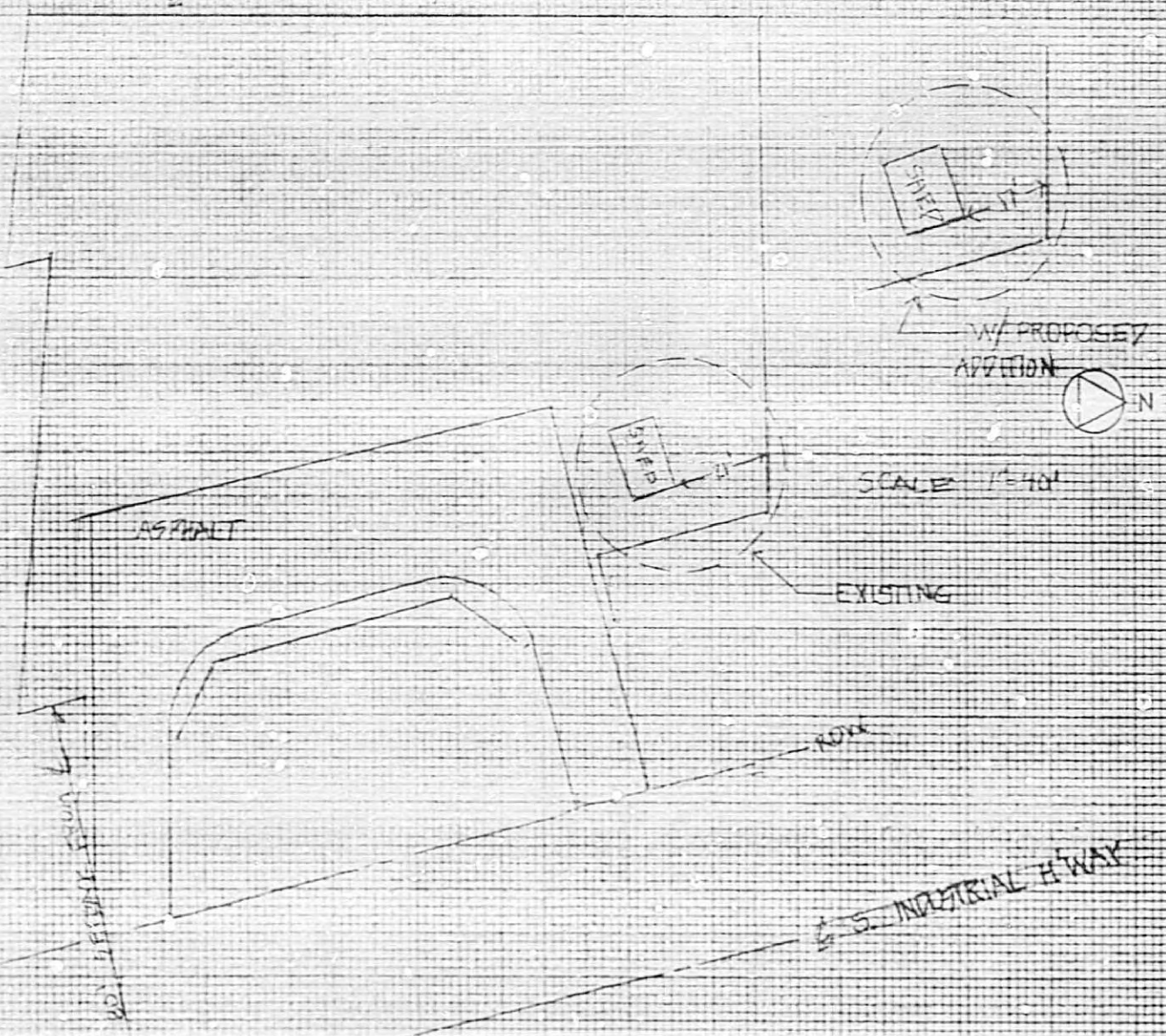
REAR YARD

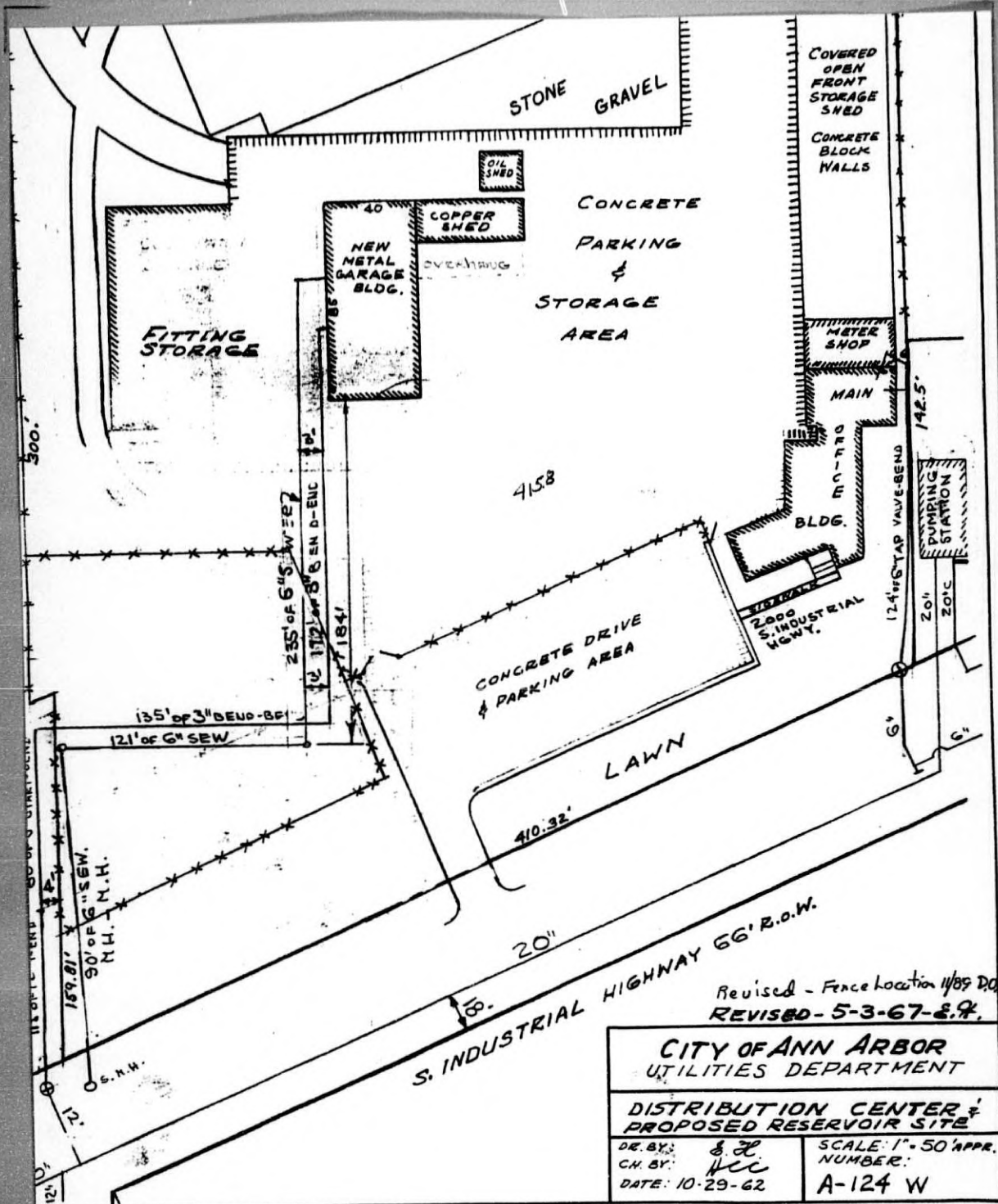
NOTES

6-9-76

IX. SITE OR PLOT PLAN - For Applicant Use RECYCLING STATION-ECOLOGY CENTER OF ANN A

PROPERTY LINE W/ 6' FENCE





Revised - Fence location 1/85 D.C.
 REVISED - 5-3-67-E.P.

CITY OF ANN ARBOR UTILITIES DEPARTMENT	
DISTRIBUTION CENTER & PROPOSED RESERVOIR SITE	
DR. BY: <i>S.P.</i> CH. BY: <i>H.C.C.</i> DATE: 10-29-62	SCALE: 1" = 50' APPR. NUMBER: A-124 W

CITY OF ANN ARBOR, MI
 BUILDING DEPARTMENT
 100 N FIFTH AVE
 994-2674

APPLICATION FOR
 PLAN EXAMINATION AND
 BUILDING PERMIT

IMPORTANT - Applicant to complete all items in sections: I, II, III, IV, and IX.

I. LOCATION OF BUILDING

AT (LOCATION) ~~1100~~ S. Industrial Hwy (Ann Arbor Pumping Sta.) ZONING DISTRICT PL

BETWEEN 2000 Jewett AND Rosewood

SUBDIVISION 12.04.200.013 LOT _____ BLOCK _____ LOT SIZE _____

II. TYPE AND COST OF BUILDING - All applicants complete Parts A - D

A. TYPE OF IMPROVEMENT

1 New building
 2 Addition (If residential, enter number of new housing units added, if any, in Part D, 13)
 3 Alteration (See 2 above)
 4 Repair, replacement
 5 Wrecking (If multifamily residential, enter number of units in building in Part D, 13)
 6 Moving (relocation)
 7 Foundation only

B. OWNERSHIP

8 Private (individual, corporation, nonprofit institution, etc.)
 9 Public (Federal, State, or local government)

D. PROPOSED USE - For "Wrecking" most recent use

Residential

12 One family
 13 Two or more family - Enter number of units - - - - -
 14 Transient hotel, motel, or dormitory - Enter number of units - - - - -
 15 Garage
 16 Carport
 17 Other - Specify _____

Nonresidential

18 Amusement, recreational
 19 Church, other religious
 20 Industrial
 21 Parking garage
 22 Service station, repair garage
 23 Hospital, institutional
 24 Office, bank, professional
 25 Public utility
 26 School, library, other educational
 27 Stores, mercantile
 28 Tanks, towers
 29 Other - Specify Water Pumping Station

C. COST

10. Cost of improvement..... \$ 1500.

To be installed but not included in the above cost

a. Electrical.....
 b. Plumbing.....
 c. Heating, air conditioning.....
 d. Other (elevator, etc.).....

11. TOTAL COST OF IMPROVEMENT Estimated \$ 1500.

Nonresidential - Describe in detail proposed use of buildings, e.g., food processing plant, machine shop, laundry building at hospital, elementary school, secondary school, college, parochial school, parking garage for department store, rental office building, office building at industrial plant. If use of existing building is being changed, enter proposed use.

Underground storage Tank Removal at Ann Arbor Water Pumping Station

III. SELECTED CHARACTERISTICS OF BUILDING - For new buildings and additions, complete Parts E - L; for wrecking, complete only Part J, for all others skip to IV.

E. PRINCIPAL TYPE OF FRAME

30 Masonry (wall bearing)
 31 Wood frame
 32 Structural steel
 33 Reinforced concrete
 34 Other - Specify _____

G. TYPE OF SEWAGE DISPOSAL

40 Public or private company
 41 Private (septic tank, etc.)

H. TYPE OF WATER SUPPLY

42 Public or private company
 43 Private (well, cistern)

J. DIMENSIONS

48. Number of stories.....
 49. Total square feet of floor area, all floors, based on exterior dimensions.....
 50. Total land area, sq. ft.....

K. NUMBER OF OFF-STREET PARKING SPACES

51. Enclosed.....
 52. Outdoors.....

L. RESIDENTIAL BUILDINGS ONLY

53. Number of bedrooms.....
 54. Number of bathrooms { Full.....
 Partial.....

F. PRINCIPAL TYPE OF HEATING FUEL

35 Gas
 36 Oil
 37 Electricity
 38 Coal
 39 Other - Specify _____

I. TYPE OF MECHANICAL

Will there be central air conditioning?
 44 Yes 45 No

Will there be an elevator?
 46 Yes 47 No

NO. STREET

NOTES and Data - (For department use)

(08) Remove underground tank

IV. IDENTIFICATION - To be completed by all applicants

Name		Mailing address - Number, street, city, and State		ZIP code	Tel. No.
1. Owner or Lessee	City of Ann Arbor	100 N. Fifth Ave.	Ann Arbor, MI	48104	994-2700
2. Contractor	Carlo Environmental Technologies, Inc.	21570 Hall Road, P.O. Box 744	Mt. Clemens, MI 48046	Builder's License No.	468-9580
3. Architect or Engineer	The Traverse Group Incorporated	3772 Plaza Dr., Suite 5	Ann Arbor, MI 48108		747-9300

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and we agree to conform to all applicable laws of this jurisdiction.

Signature of applicant <i>Peter Munn</i>	Address 21570 Hall Rd., Mt. Clemens, MI 48046	Application date 25 Sept. '91
---	--	----------------------------------

DO NOT WRITE BELOW THIS LINE

V. PLAN REVIEW RECORD - For office use

Plans Review Required	Check	Plan Review Fee	Date Plans Started	By	Date Plans Approved	By	Notes
BUILDING		\$					
PLUMBING		\$					
MECHANICAL		\$					
ELECTRICAL		\$					
OTHER _____		\$					

VI. ADDITIONAL PERMITS REQUIRED OR OTHER JURISDICTION APPROVALS

Permit or Approval	Check	Date Obtained	Number	By	Permit or Approval	Check	Date Obtained	Number	By
BOILER					PLUMBING				
CURB OR SIDEWALK CUT					ROOFING				
ELEVATOR					SEWER				
ELECTRICAL					SIGN OR BILLBOARD				
FURNACE					STREET GRADES				
GRADING					USE OF PUBLIC AREAS				
OIL BURNER					WRECKING				
OTHER _____					OTHER _____				

VII. VALIDATION

Building Permit number _____	<p>FOR DEPARTMENT USE ONLY</p> <p>Use Group _____</p> <p>Fire Grading _____</p> <p>Live Loading _____</p> <p>Occupancy Load _____</p>
Building Permit issued _____	
Building Permit Fee \$ _____ 25-	
Certificate of Occupancy \$ _____	
Drain Tile \$ _____	Approved by: <u>J. Ellis</u> <u>10-1-91</u>
Plan Review Fee \$ _____	TITLE _____

VIII. ZONING PLAN EXAMINERS NOTES

DISTRICT

USE

FRONT YARD

SIDE YARD

SIDE YARD

REAR YARD

NOTES

IX. SITE OR PLOT PLAN - For Applicant Use

See Attached



CITY OF ANN ARBOR, MICHIGAN
BUILDING DEPARTMENT
100 NORTH FIFTH AVENUE 994-2674

FIELD COPY

BUILDING PERMIT

DATE October 3 19 91 PERMIT NO. 37147

APPLICANT Carlo Environ. TEch., Inc. ADDRESS _____ (NO.) (STREET) (CONTR'S LICENSE)

PERMIT TO Remove (TYPE OF IMPROVEMENT) (NO.) STORY _____ (PROPOSED USE) NUMBER OF DWELLING UNITS _____

AT (LOCATION) 2000 S. Industrial Hwy (NO.) (STREET) ZONING DISTRICT PL

BETWEEN Jewett (CROSS STREET) AND Rosewood (CROSS STREET)

SUBDIVISION 12 04 200 013 LOT _____ BLOCK _____ LOT SIZE _____ # 37147

BUILDING IS TO BE _____ FT. WIDE BY _____ FT. LONG BY _____ FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION TO TYPE _____ USE GROUP _____ BASEMENT WALLS OR FOUNDATION _____

REMARKS: 08) Remove underground tank

AREA OR VOLUME _____ (CUBIC/SQUARE FEET) ESTIMATED COST \$ 1,500 PERMIT FEE \$ 25.00

OWNER City of Ann ARbor, MI. BUILDING DEPT. BY D. Jack Donaldson, dir. b1

ADDRESS 100 N. Fifth Ave.

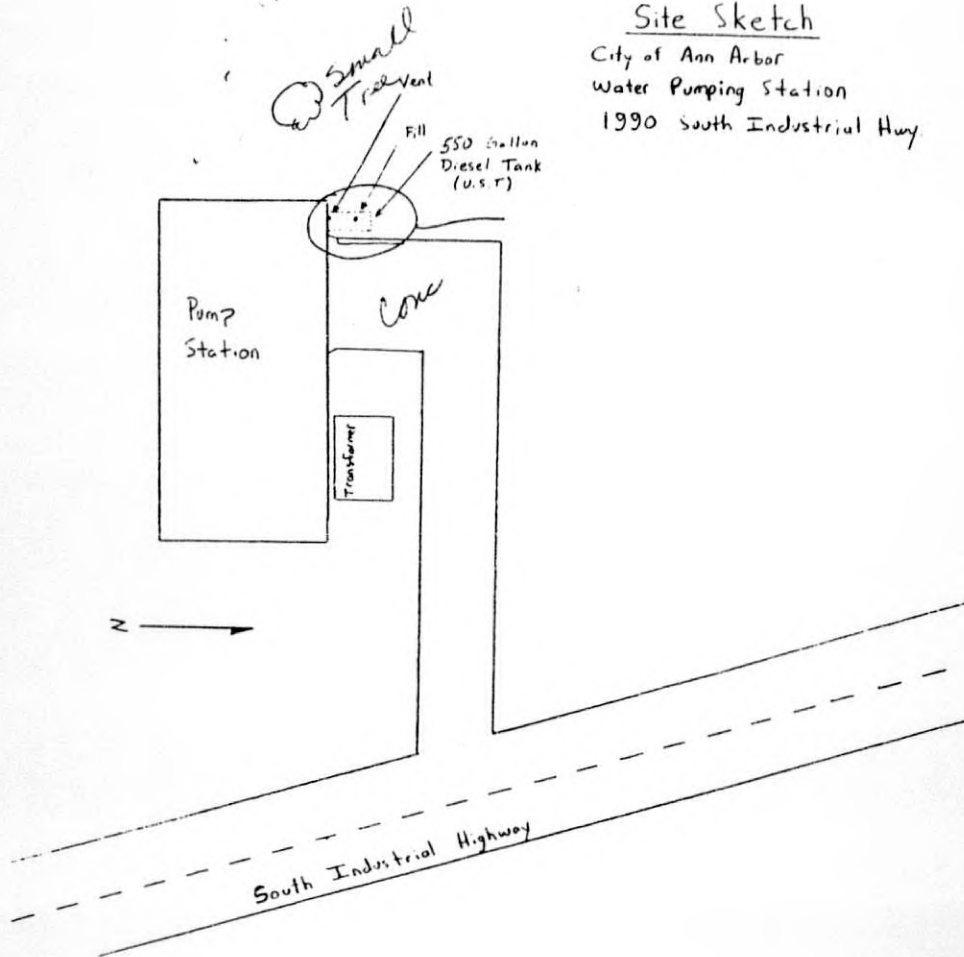
FORM NO. BOCA - BP 1969

MLC .25.00
CH .495.00
BOBBIE 63438
10-03-91 11:00
(TYPE)

IX

Site Sketch

City of Ann Arbor
Water Pumping Station
1990 South Industrial Hwy



CITY OF ANN ARBOR
BUILDING DEPARTMENT
994-2674

37726

PERMIT NO.

INSPECTION NOTICE

Wed 12/9

DATE REQUESTED

ADDRESS 2000 Industrial BETWEEN _____ & _____

CONTRACTOR Voss Elec CALLER'S NAME Mark DATE RECEIVED 12/7

BUILDING ELECTRICAL MECHANICAL PLUMBING ROUGH FINAL

APPROVED NOT APPROVED _____ INSPECTOR Frank M. DATE 12-9-92

note: please mail copy of final inspection to: Voss Elec
815 N. Adams
Owosso, Mi 48867

IF NOT APPROVED THE FOLLOWING CORRECTIONS MUST BE MADE BY _____
COMMENTS Place open taps back in box
and replace cover on Unleaded Tank atn: mark
ASAP

APPLICATION FOR ELECTRICAL PERMIT

BUILDING DEPARTMENT
City of Ann Arbor, Michigan

(313) 996-2674

E-61 Revised 7/26/88

Location Address Utilities Field Services Div. 5
 Owner City of Ann Arbor
 Address 2000 South Industrial
 Phone _____

Date 8/31/92
 Contractor Voss Electric Cont. License# 61-05935
 Business Address 815 N. Adams, Owosso, Mi 48867
 Phone (313) 232-4555 Permit No. 37726 Issued 8-2-92

NUMBER	ITEM	FEE	Ad. To
2	EACH INSPECTION	\$ 15.00	30 -
	SERVICE FEEDERS PER AMP	\$ 0.10	
4	CIRCUITS & FEEDERS, EACH:		4.80
	20 AMPS AND UNDER	\$ 1.20	
	OVER 20 TO 50	\$ 3.25	
	OVER 50 TO 100	\$ 4.25	
	OVER 100 TO 200	\$ 5.25	
	OVER 200 TO 400	\$ 6.50	
	OVER 400 AMPS	\$ 8.50	
	OVER 800 AMPS	\$ 13.00	
	MISC WIRING/CODE REPAIRS	\$ 20.00	
	TEMPORARY SERVICE	\$ 15.00	
	MINIMUM PERMIT FEE	\$ 25.00	
	IF A PERMIT IS NOT OBTAINED BEFORE THE WORK IS STARTED, THE APPLICANT SHALL BE SUBJECT TO DOUBLE THE PERMIT FEE.		
①	EXTRA INSPECTION ON JOB WITH PERMIT	\$ 20.00	
TOTAL FEE			34.80

Existing Building New Building _____
 Residential _____ Commercial _____

Name of Business or Building _____

APPLIANCES

Dryer _____ Dishwasher _____
 Range _____ Food Disposal _____
 Water Heater _____ Air Cond. Outlet _____
 Washer _____ Other (Specify) _____

INSPECTOR'S REPORT

Rough Underground 10-28-92 for 1st app

Date Apr. _____ Inspector _____

Final 12-16-92

Date Apr. _____ Inspector _____

Remarks 12-9-92 Not app

updating fuel tanks = outside

License No. 61-05935

2050 S. Industrial

2050 S. Industrial



BUILDING AND SAFETY
ENGINEERING DEPARTMENT

CITY OF ANN ARBOR MICHIGAN

100 North Fifth Avenue, P.O. Box 647, Ann Arbor, Michigan 48107

Administration	994-2712	Environmental	994-2698
Engineering	994-2695	Housing & Safety	994-2678
Construction	994-2674		994-2681

July 30, 1976

Mr. Paul Schrott
Recycling Center
2050 S. Industrial Highway

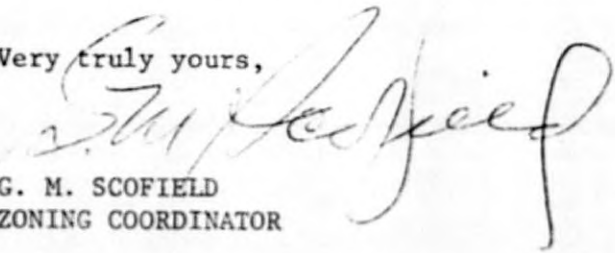
Re: New Address
2050 S. Industrial Hwy.

Dear Sir:

We are changing your street address to 2050 S. Industrial at the request of the Ann Arbor City Utilities Department. They have informed us that considerable confusion has existed with your using the number 2000, which is the address of the Water Department Engineering Office. Many persons enter their yard before they see your sign.

The Ann Arbor City Code requires that the address be posted so that it is visible from the access street. I would appreciate your cooperation in this matter so that our conscientious citizenry can best be accommodated.

Very truly yours,


G. M. SCOFIELD
ZONING COORDINATOR

GMS/111

cc: Utilities Dept., Engineering

INTER-OFFICE CORRESPONDENCE

TO: Building & Safety - Jerry Scofield DATE: July 20, 1976
FROM: Utilities Department-Sarah Armstrong *Armstrong* REPLY:
SUBJECT: 2000 S. Industrial Highway COPIES TO:

The Recycling Center is currently using the address of 2000 South Industrial Highway which has always been the Ann Arbor Utilities Department. Would you please assign them another number?

Thank You.

RECEIVED

JUL 21 1976

BUILDING & SAFETY ENGR.

CITY OF ANN ARBOR, MICHIGAN
 BUILDING & SAFETY ENGINEERING DEPT.
 100 N. 5th AVENUE - 761-2400

BUILDING PERMIT

DATE 10-22- 19 75 PERMIT NO. - 8516

APPLICANT Washtenaw Fence & B&B Asphalt ADDRESS 741 Dodge, Ypsi na
(NO.) (STREET) (CONTR'S LICENSE)

PERMIT TO erect fence (TYPE OF IMPROVEMENT) () STORY recycling ctr. (PROPOSED USE) NUMBER OF DWELLING UNITS _____

AT (LOCATION) 2000 S. Industrial ZONING DISTRICT PL
(NO.) (STREET)

BETWEEN _____ AND _____
(CROSS STREET) (CROSS STREET)

SUBDIVISION 12-04-200-pt 13 LOT _____ BLOCK _____ LOT SIZE _____

BUILDING IS TO BE _____ FT. WIDE BY _____ FT. LONG BY _____ FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE _____ USE GROUP _____ BASEMENT WALLS OR FOUNDATION _____ (TYPE)

REMARKS: (29) erect fence & install backtopping

AREA OR VOLUME _____ ESTIMATED COST \$ 6,000.00 PERMIT FEE \$ 30.00
(CUBIC/SQUARE FEET)

OWNER Ecology Center of Ann Arbor George W. Gardner, R.A.
 ADDRESS 417 Detroit St., A.A. BY Director/dcs

CITY OF ANN ARBOR, MICHIGAN
 BUILDING & SAFETY ENGINEERING DEPT.
 100 N. FIFTH AVE. - 751-2400

APPLICATION FOR
 PLAN EXAMINATION AND
 BUILDING PERMIT

IMPORTANT - Applicant to complete all items in sections: I, II, III, IV, and IX.

I. LOCATION OF BUILDING

AT (LOCATION) 2000 2050 So. Industrial ZONING DISTRICT PL
(NO.) (STREET)

BETWEEN Astor AND Rosewood
(CROSS STREET) (CROSS STREET)

SUBDIVISION 12-04-200-413 LOT 21 BLOCK _____ LOT SIZE 160' x 90' x 150' x 150'

II. TYPE AND COST OF BUILDING - All applicants complete Parts A - D

A. TYPE OF IMPROVEMENT

1 New building
 2 Addition (If residential, enter number of new housing units added, if any, in Part D, 13)
 3 Alteration (See 2 above)
 4 Repair, replacement
 5 Wrecking (If multifamily residential, enter number of units in building in Part D, 13)
 6 Moving (relocation) fence paving
 7 Foundation only

B. OWNERSHIP

8 Private (individual, corporation, nonprofit institution, etc.)
 9 Public (Federal, State, or local government)

D. PROPOSED USE - For "Wrecking" most recent use

Residential

12 One family
 13 Two or more family - Enter number of units - - - - -> _____
 14 Transient hotel, motel, or dormitory - Enter number of units - - - - -> _____
 15 Garage
 16 Carport
 17 Other - Specify _____

Nonresidential

18 Amusement, recreational
 19 Church, other religious
 20 Industrial
 21 Parking garage
 22 Service station, repair garage
 23 Hospital, institutional
 24 Office, bank, professional
 25 Public utility
 26 School, library, other educational
 27 Stores, mercantile
 28 Tanks, towers
 29 Other - Specify recycling collection facility

C. COST

10. Cost of improvement, \$ 6000.00
(Omit cents)

To be installed but not included in the above cost

a. Electrical.....
 b. Plumbing.....
 c. Heating, air conditioning.....
 d. Other (elevator, etc.).....

11. TOTAL COST OF IMPROVEMENT \$ 6000.00

Nonresidential - Describe in detail proposed use of buildings, e.g., food processing plant, machine shop, laundry building at hospital, elementary school, secondary school, college, parochial school, parking garage for department store, rental office building, office building at industrial plant. If use of existing building is being changed, enter proposed use.

III. SELECTED CHARACTERISTICS OF BUILDING - For new buildings and additions, complete Parts E - L; for wrecking, complete only Part J, for all others skip to IV.

E. PRINCIPAL TYPE OF FRAME

30 Masonry (wall bearing)
 31 Wood frame
 32 Structural steel
 33 Reinforced concrete
 34 Other - Specify _____

F. PRINCIPAL TYPE OF HEATING FUEL

35 Gas
 36 Oil
 37 Electricity
 38 Coal
 39 Other - Specify _____

G. TYPE OF SEWAGE DISPOSAL

40 Public or private company
 41 Private (septic tank, etc.)

H. TYPE OF WATER SUPPLY

42 Public or private company
 43 Private (well, cistern)

I. TYPE OF MECHANICAL

Will there be central air conditioning?
 44 Yes 45 No

Will there be an elevator?
 46 Yes 47 No

J. DIMENSIONS

48. Number of stories.....
 49. Total square feet of floor area, all floors, based on exterior dimensions.....
 50. Total land area, sq. ft.

K. NUMBER OF OFF-STREET PARKING SPACES

51. Enclosed.....
 52. Outdoors.....

L. RESIDENTIAL BUILDINGS ONLY

53. Number of bedrooms.....
 54. Number of bathrooms } Full.....
 } Partial.....

NO. STREET

2050

S. Industrial

FIELD COPY

CITY OF ANN HARBOR, MICHIGAN
BUILDING DEPARTMENT
100 NORTH FIFTH AVENUE 994-2674

BUILDING PERMIT

DATE October 25 19 89 PERMIT NO. 31972

APPLICANT J.C. Beal Constr. ADDRESS _____ (NO.) _____ (STREET) _____ (CONTR'S LICENSE)

B PERMIT TO New Bldg (TYPE OF IMPROVEMENT) _____ (NO.) _____ STORY _____ (PROPOSED USE) NUMBER OF DWELLING UNITS _____

AT (LOCATION) 2050 S. Industrial (NO.) _____ (STREET) _____ ZONING DISTRICT PL
BETWEEN _____ (CROSS STREET) AND _____ (CROSS STREET)

SUBDIVISION 12 04 200 013 LOT _____ BLOCK _____ LOT SIZE _____ # 31972

BUILDING IS TO BE _____ FT. WIDE BY _____ FT. LONG BY _____ FT. IN HEIGHT AND SHAPE CONFORM IN _____ CONSTRUCTION

TO TYPE 4B USE GROUP T BASEMENT WALLS OR FOUNDATION _____ (TYPE)

REMARKS: 29) Oil and battery containment structure

AREA OR VOLUME _____ (CUBIC/SQUARE FEET) ESTIMATED COST \$ 8,500 PERMIT FEE \$ 60.00

OWNER Recycle Ann Arbor BUILDING DEPT BY Jack Donaldson, Dir/bl
ADDRESS 2050 S. Industrial, AA, MI. PR 15.00

FORM NO. BOCA-BP 1988

INSPECTION RECORD

DATE	NOTE PROGRESS - CRITICISMS AND REMARKS	INSPECTOR
11/9/90	work completed only - needs footing	MJA
	completed	MJA
11/19/90	ok footing	MJA
10-12-90	disappear final no plans on site see notice	TB
2/6/91	final	MJA

CITY OF ANN ARBOR
BUILDING DEPARTMENT
994-2674

(SW)

31972
PERMIT NO.

INSPECTION NOTICE

10-12
DATE REQUESTED

ADDRESS 2050 S. Industrial BETWEEN &

CONTRACTOR J.C. Beal CALLER'S NAME Elizabeth DATE RECEIVED 10-10

BUILDING ELECTRICAL MECHANICAL PLUMBING ROUGH FINAL

APPROVED NOT APPROVED INSPECTOR Todd Beal DATE 10-12-90

IF NOT APPROVED THE FOLLOWING CORRECTIONS MUST BE MADE BY

COMMENTS PROVIDE HANDRAILS ON STAIRS
in oil Room
John Bingham 971-9676

NOTES and Data - (For department use)

65
10
81
50
131

25x24x1

Type: 4B Use: T

(2A) Oil and battery containment structure

IV. IDENTIFICATION - To be completed by all applicants

Name		Mailing address - Number, street, city, and State		ZIP code	Tel. No.
1. Owner or Lessee	Recycle Ann Arbor	2050 S. Industrial	Ann Arbor MI	4810	662-8816
2. Contractor	J.C. Deal Construction, Inc.	221 Felch St.	Ann Arbor MI	48103	Builder's License No. 662-6138
3. Architect or Engineer	Braffae Wain Consultants	3928 Varsity	Ann Arbor MI		064680 971-7080

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and we agree to conform to all applicable laws of this jurisdiction.

Signature of applicant <i>Andrew Walsh</i>	Address 8 Marshall Ct. #2, Ann Arbor, MI 48104	Application date
---	---	------------------

DO NOT WRITE BELOW THIS LINE

V. PLAN REVIEW RECORD - For office use

Plans Review Required	Check	Plan Review Fee	Date Plans Started	By	Date Plans Approved	By	Notes
BUILDING		\$			10/19/84	J	
PLUMBING		\$					
MECHANICAL		\$					
ELECTRICAL		\$					
OTHER _____		\$					

VI. ADDITIONAL PERMITS REQUIRED OR OTHER JURISDICTION APPROVALS

Permit or Approval	Check	Date Obtained	Number	By	Permit or Approval	Check	Date Obtained	Number	By
BOILER					PLUMBING				
CURB OR SIDEWALK CUT					ROOFING				
ELEVATOR					SEWER				
ELECTRICAL					SIGN OR BILLBOARD				
FURNACE					STREET GRADES				
GRADING					USE OF PUBLIC AREAS				
OIL BURNER					WRECKING				
OTHER _____					OTHER _____				

VII. VALIDATION

Building Permit number _____	<p>FOR DEPARTMENT USE ONLY</p> <p>Use Group _____</p> <p>Fire Grading _____</p> <p>Live Loading _____</p> <p>Occupancy Load _____</p>
Building Permit issued _____ 19____	
Building Permit Fee <u>(8500) 60</u>	
Certificate of Occupancy \$ _____	
Drain Tile \$ _____	
Plan Review Fee \$ <u>15</u>	Approved by: <i>Lampell</i>
	TITLE _____

\$75

VIII. ZONING PLAN EXAMINERS NOTES	
DISTRICT	<i>PL Public Land</i>
USE	
FRONT YARD	
SIDE YARD	SIDE YARD
REAR YARD	
NOTES	<i>25'x24' Storage building</i>
	<i>OK [Signature] 10/19/89</i>

IX. SITE OR PLOT PLAN - For Applicant Use

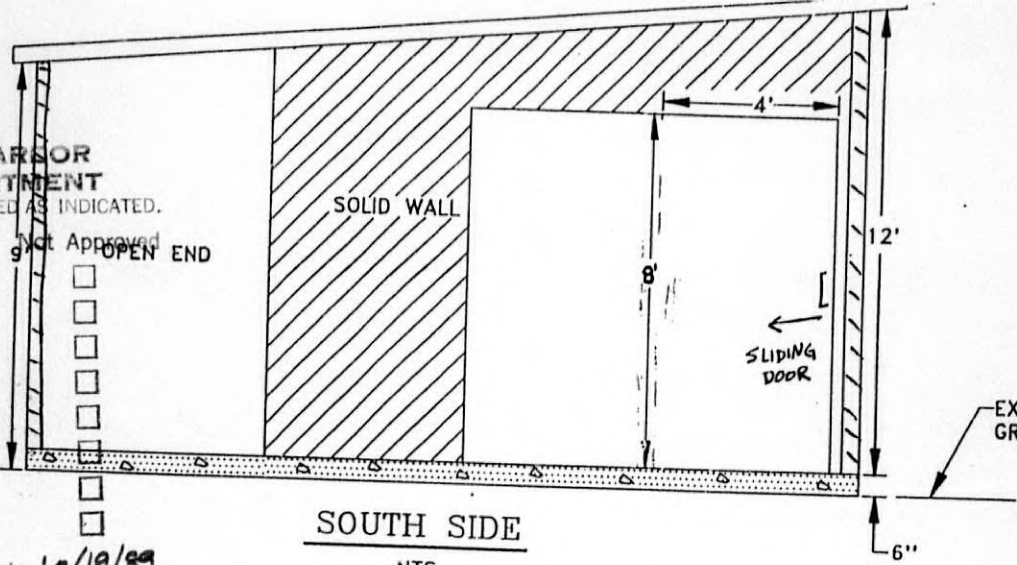
**CITY OF ANN ARBOR
BUILDING DEPARTMENT**

THESE PLANS HAVE BEEN REVIEWED AS INDICATED.

Approved Not Approved
OPEN END

- zoning
- Building
- Plumbing
- Electrical
- Heating
- A/C Refrigeration
- Fire
- Grading

EXISTING GRADE



Approved By *Palal* Date *10/19/89*

SOUTH SIDE

NTS

OFFICE COPY

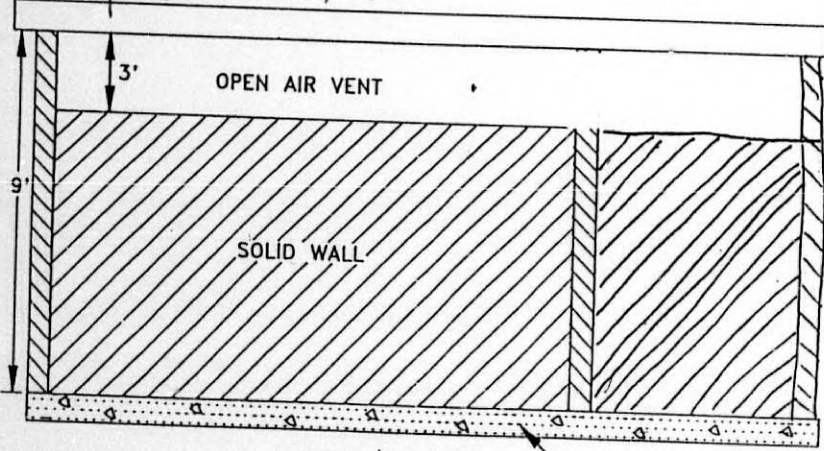
2050 South Industrial



**BRAITHWAITE
CONSULTANTS, INC.**
ENVIRONMENTAL QUALITY ENGINEERS

MAIN OFFICE:

3928 VARSITY DRIVE
ANN ARBOR, MICHIGAN 48108
PHONE (313) 971-7000

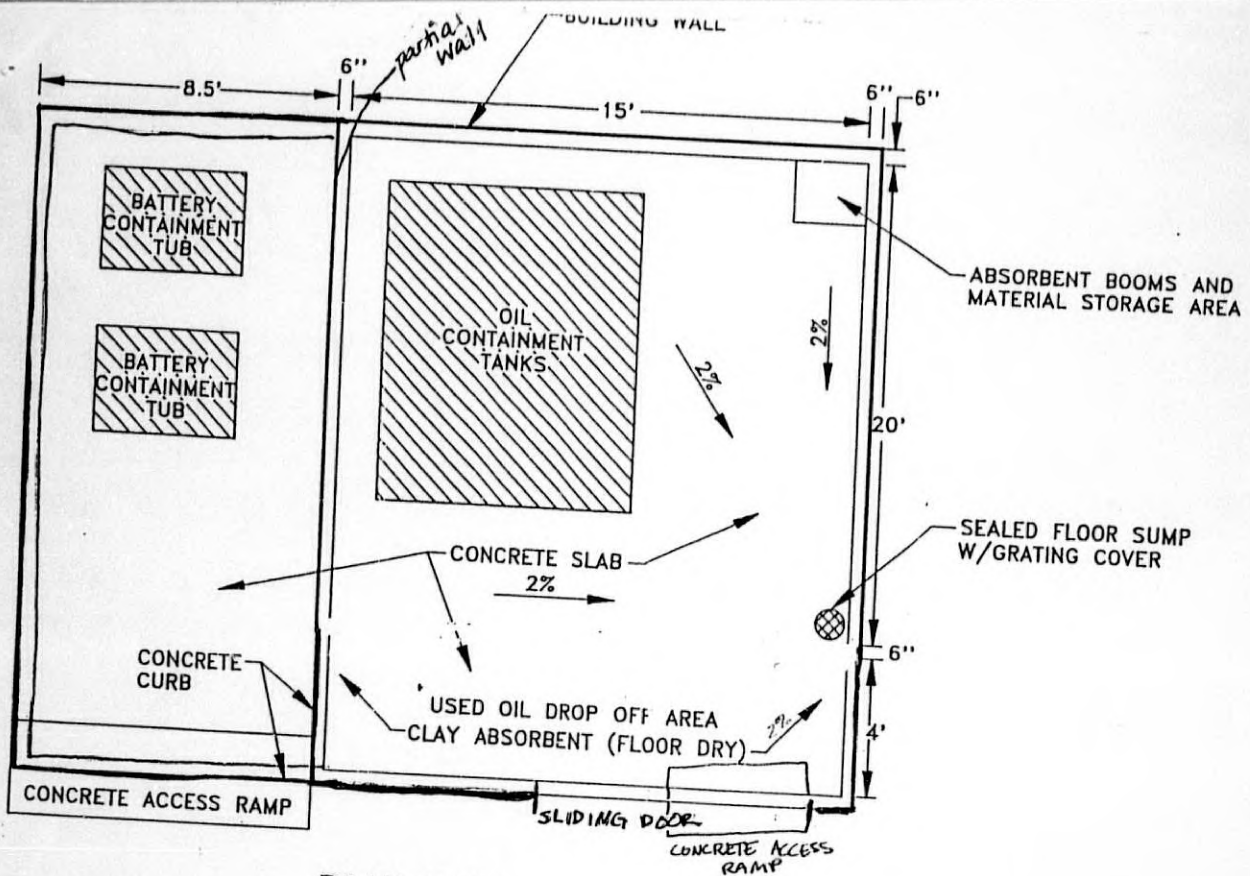


WEST SIDE

NTS

CONCRETE CURB

EXISTING GRADE



PLAN VIEW

OIL AND BATTERY CONTAINMENT STRUCTURE
2050 South Industrial



BRAITHWAITE
CONSULTANTS, INC.
ENVIRONMENTAL QUALITY ENGINEERS

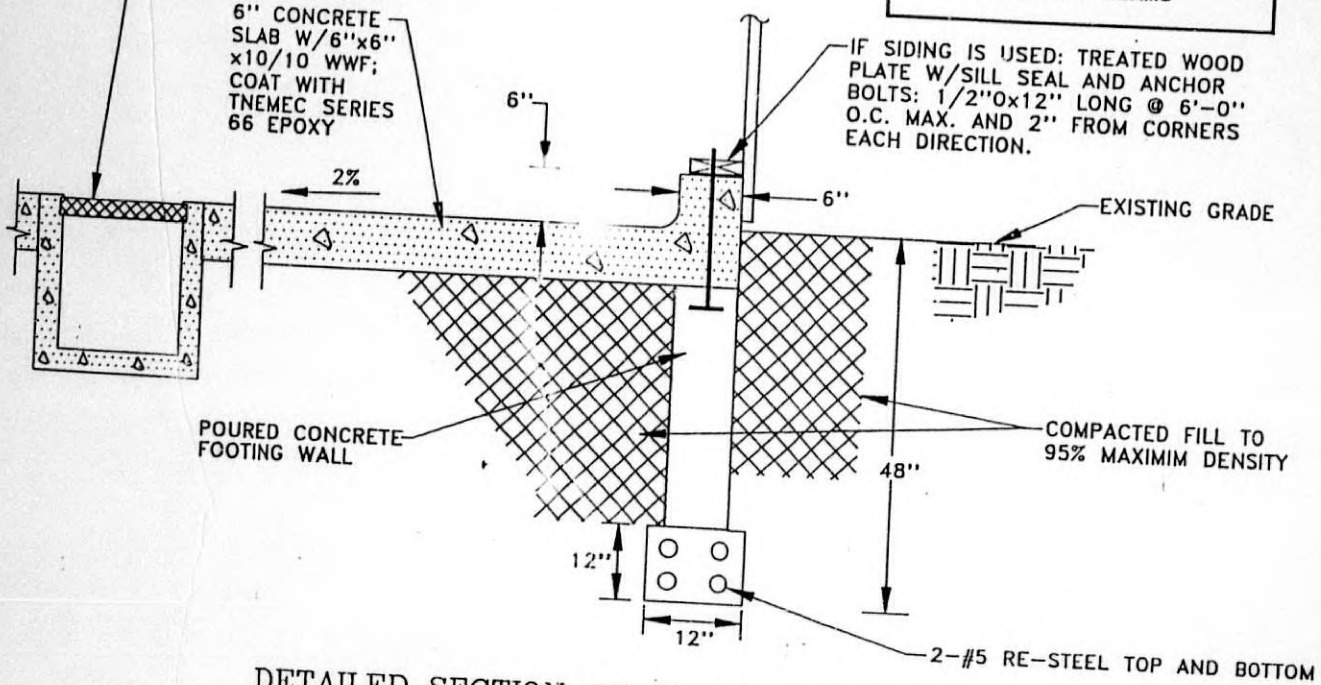
MAIN OFFICE:
3928 VARSITY DRIVE
ANN ARBOR, MICHIGAN 48108
PHONE (313) 971-5000

24" DIA. x 12" DEEP CONCRETE CROOK WITH SEALED CONCRETE BOTTOM PLACED AT FLOOR GRADE. CROOK SHALL BE COATED WITH TNE MEC SERIES 66 EPOXY IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS. GRATING SHALL COVER THE OPENING AND BE SECURELY ATTACHED TO THE FLOOR.

CURB AND FLOOR DEVELOPED IN A SINGLE POUR TO ELIMINATE SEAMS

6" CONCRETE SLAB W/ 6"x6" x10/10 WWF; COAT WITH TNE MEC SERIES 66 EPOXY

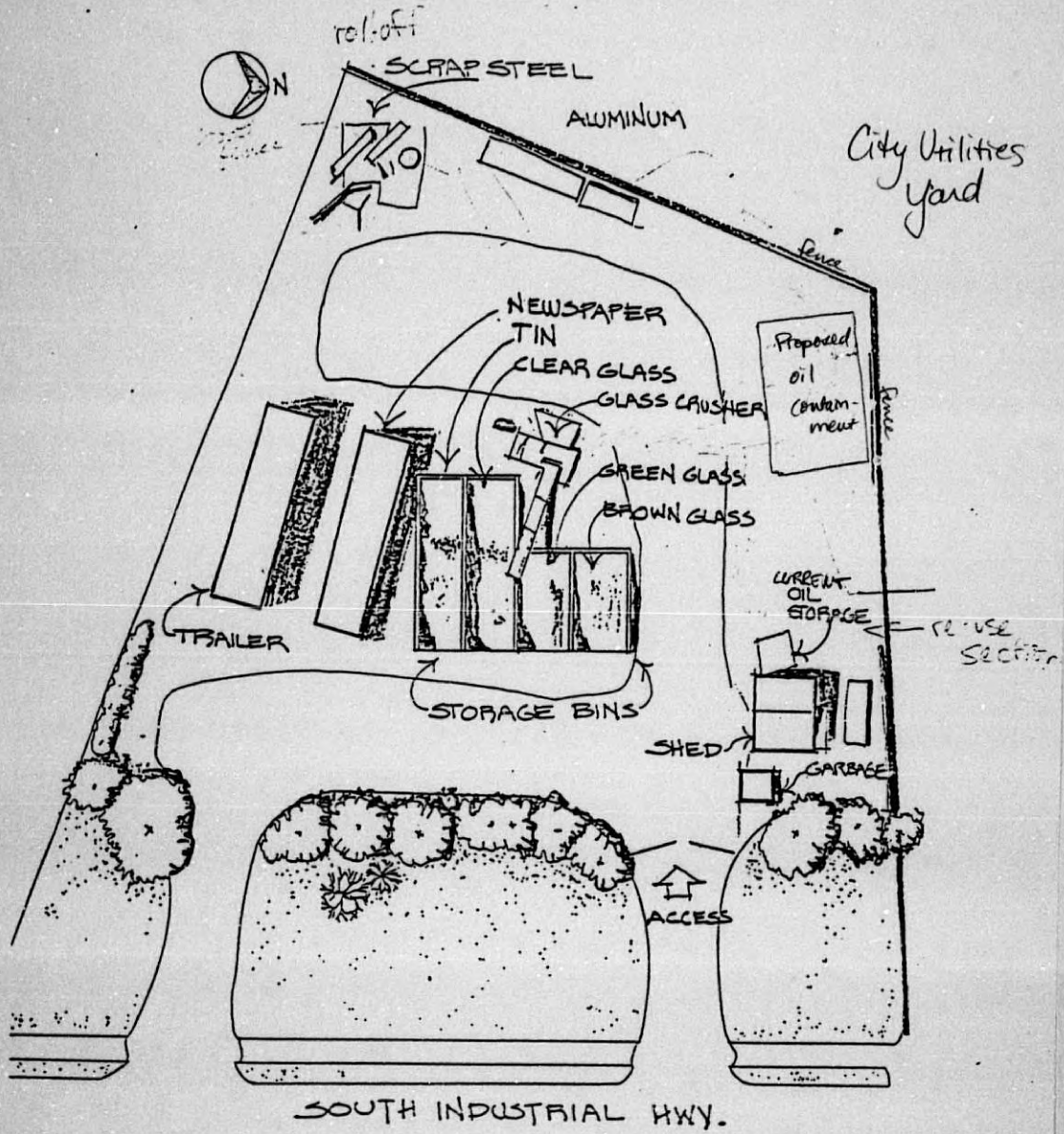
IF SIDING IS USED: TREATED WOOD PLATE W/ SILL SEAL AND ANCHOR BOLTS: 1/2" x 12" LONG @ 6'-0" O.C. MAX. AND 2" FROM CORNERS EACH DIRECTION.



DETAILED SECTION OF FLOOR AND FOOTING

HTS

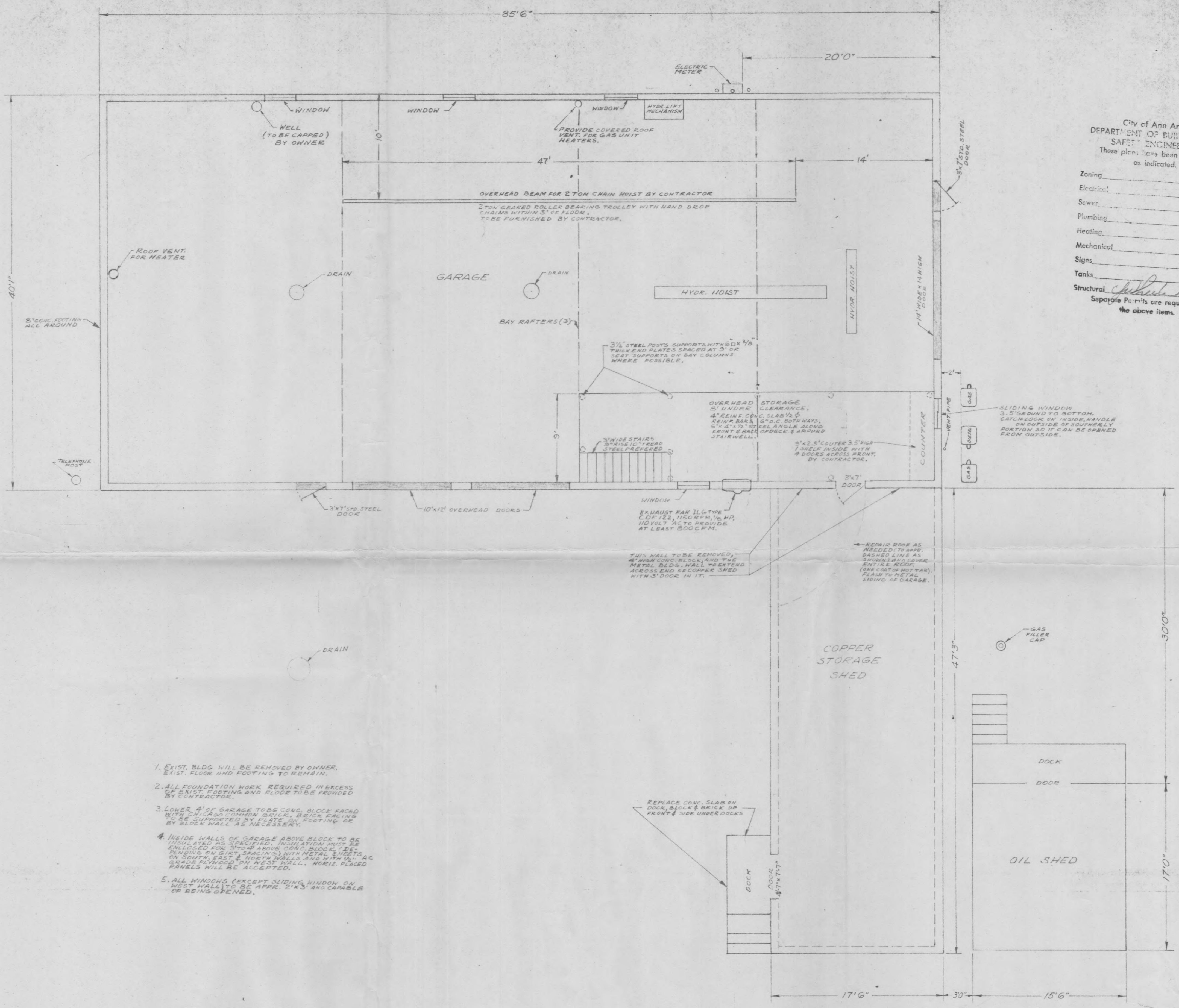
2050 SOUTH INDUSTRIAL



RECYCLING FACILITY

containing
waste to hydrocarbons

NEPA 30 ft wall
construction



City of Ann Arbor
DEPARTMENT OF BUILDING AND SAFETY ENGINEERING
These plans have been approved as indicated.

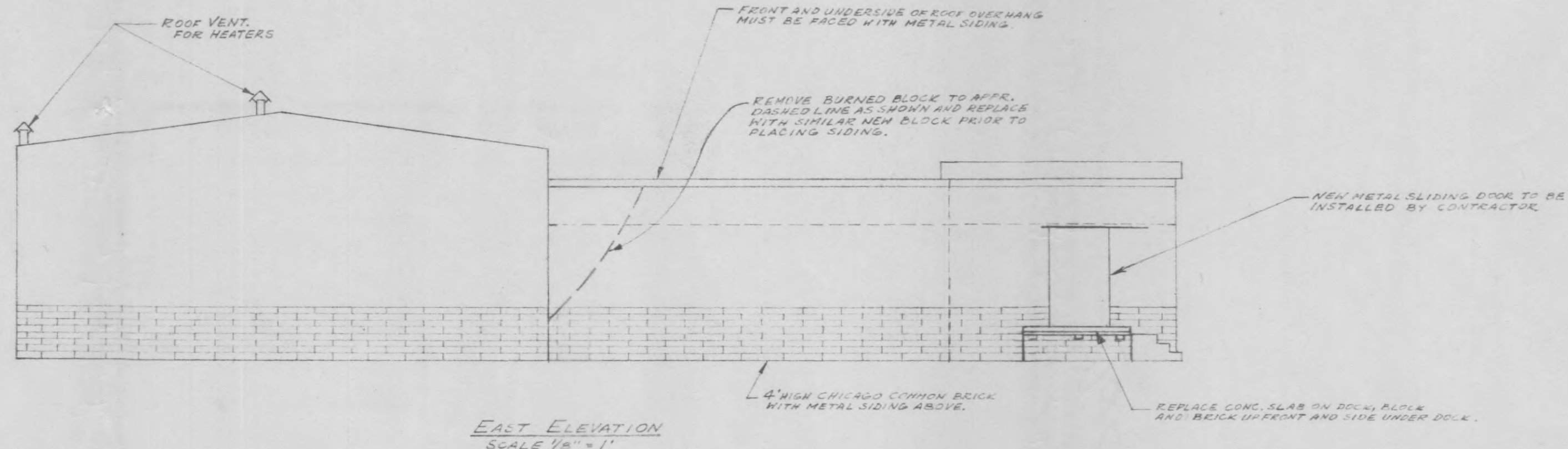
Zoning _____
 Electrical _____
 Sewer _____
 Plumbing _____
 Heating _____
 Mechanical _____
 Signs _____
 Tanks _____
 Structural *[Signature]*
 Separate Permits are required for the above items.

- EXIST. BLDG. WILL BE REMOVED BY OWNER. EXIST. FLOOR AND FOOTING TO REMAIN.
- ALL FOUNDATION WORK REQUIRED IN EXCESS OF EXIST. FOOTING AND FLOOR TO BE PROVIDED BY CONTRACTOR.
- LOWER 4' OF GARAGE TO BE CONC. BLOCK FACED WITH CHICAGO COMMON BRICK, BRICK FACING TO BE SUPPORTED BY PLATE ON FOOTING OR BY BLOCK WALL AS NECESSARY.
- INSIDE WALLS OF GARAGE ABOVE BLOCK TO BE INSULATED AS SPECIFIED. INSULATION MUST BE ENCLOSED FOR 3" ABOVE CONC. BLOCK (DEPENDING ON GIRT SPACING) WITH METAL SHEETS ON SOUTH, EAST & NORTH WALLS AND WITH 1/2" AC GRADE PLYWOOD ON WEST WALL. HORIZ. PLACED PANELS WILL BE ACCEPTED.
- ALL WINDOWS (EXCEPT SLIDING WINDOW ON WEST WALL) TO BE APPR. 2' X 3' AND CAPABLE OF BEING OPENED.

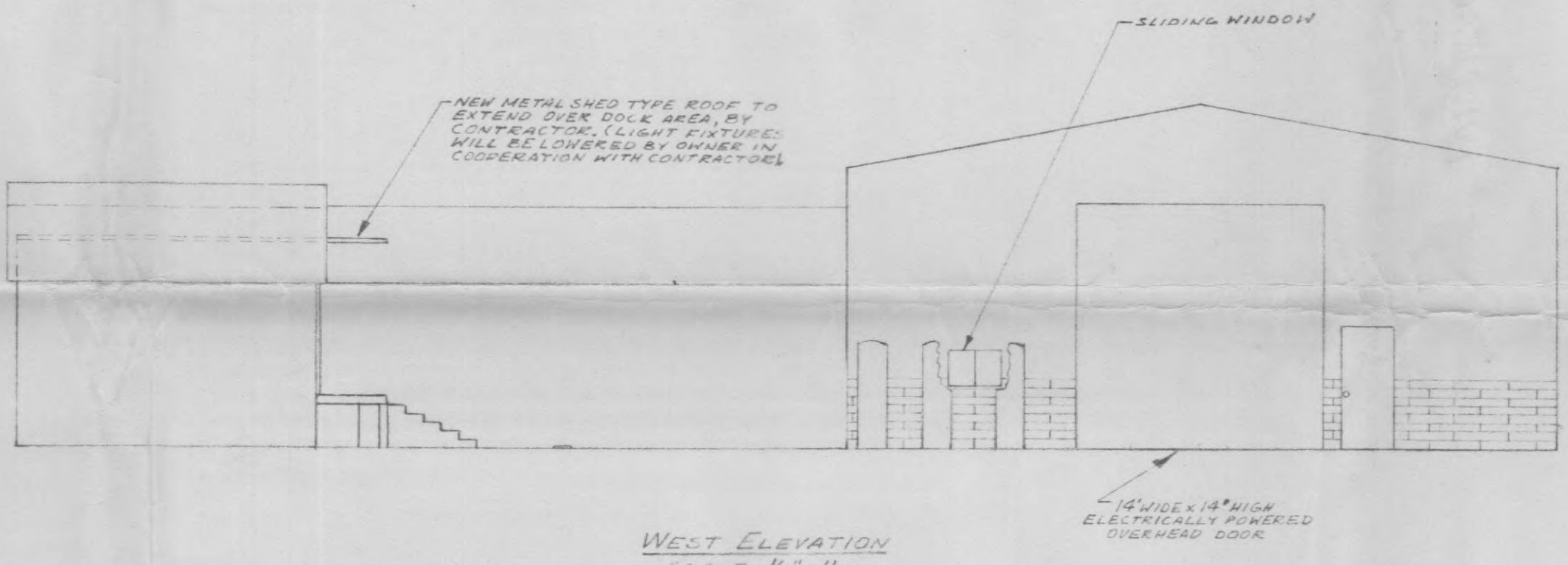
SCALE 3/16" = 1'

CITY OF ANN ARBOR UTILITIES DEPARTMENT			
GARAGE FLOOR PLAN			
SCALE	DRWN	DATE	NUMBER
	EJC	9-6-63	1
CH BY	KCC	9-6-63	

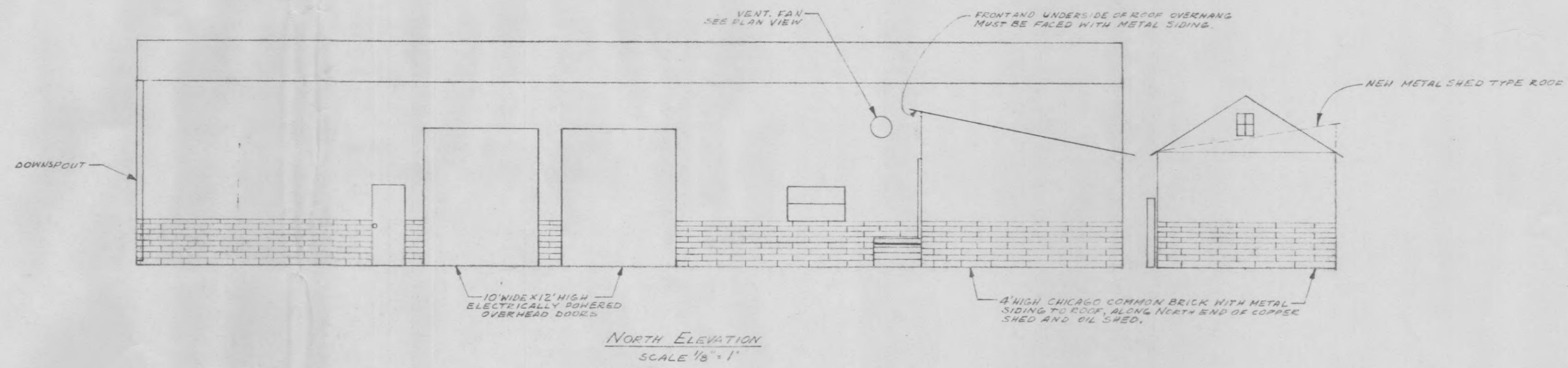
2000 S. INDUSTRIAL



EAST ELEVATION
SCALE 1/8" = 1'



WEST ELEVATION
SCALE 1/8" = 1'



NORTH ELEVATION
SCALE 1/8" = 1'

CITY OF ANN ARBOR UTILITIES DEPARTMENT			
GARAGE ELEVATIONS			
SCALE	1/8" = 1'	DATE	9-6-63
DR. BY	G. J. H.		
CK. BY	H. C. C.		2

PROPOSAL - CONTRACT
FOR
CONSTRUCTION OF GARAGE BUILDING
FOR
THE CITY OF ANN ARBOR, MICHIGAN

SEPTEMBER, 1963

ADVERTISEMENT
FOR
CONSTRUCTION OF GARAGE BUILDING
FOR
THE CITY OF ANN ARBOR, MICHIGAN

Sealed proposals will be received by the City of Ann Arbor, Michigan, at the office of the City Clerk, City Hall, Ann Arbor, Michigan, up to 2:00 PM Eastern Standard Time on Wednesday, September 25, 1963 when they will be publicly opened and read aloud.

The work consists of construction of a 40 x 85 foot Metal Garage Building and related work, to be erected on existing floor at 2000 South Industrial Highway.

It is desired that, upon award, the project be completed as quickly as possible. The contract will be awarded to the best bidder, based on price and time of completion.

No bidder may withdraw his bid within thirty (30) days after the date set for the opening thereof.

Each proposal shall be accompanied by a certified check in the amount of five percent of the bid payable to the City of Ann Arbor as security for the acceptance of the Contract.

The Contract Documents, including plans and specifications for the work, may be obtained at the office of the City of Ann Arbor Purchasing Department, City Hall, Ann Arbor, Michigan.

The right is reserved by the City of Ann Arbor to reject any or all bids and to waive irregularities in any bid, in the interest of the City of Ann Arbor.

CITY OF ANN ARBOR, MICHIGAN

Fred J. Looker, City Clerk

PROPOSAL - CONTRACT

_____, 1963

To the City of Ann Arbor, Michigan:

The undersigned as bidder hereby proposes to furnish all labor, materials, tools, power and equipment necessary for the satisfactory and complete construction of a Garage Building and related work in full accordance with this Proposal and the attached plans and specifications for the lump sum of _____ Dollars (\$ _____)

The undersigned further proposes, if awarded a Contract, to complete the entire work within _____ consecutive calendar days after receipt of notice to commence work.

The undersigned further agrees/does not agree (bidder cross out one) that there shall be deducted from the bid price, as liquidated damages, and not as a penalty, the sum of \$20.00 per day for each and every calendar day required for the completion of the work beyond the number of calendar days above stipulated, or the number of calendar days to which such completion time may be extended for good cause shown.

The undersigned further agrees, prior to commencing work at the site, to furnish the Owner satisfactory evidence of insurance certificates, as follows:

- (a) Workmen's Compensation Insurance covering all persons engaged by him for work at the site.
- (b) Public liability insurance in an amount not less than \$50,000 for injuries, including accidental death, to any one person and, subject to the same limit for each person, in an amount not less than \$100,000 for one accident.
- (c) Contractor's Property Damage Insurance in an amount not less than \$20,000.

The undersigned has enclosed a certified check or bid bond (cross out one) in the amount of \$ _____. In submitting this bid, it is understood that the right is reserved by the City to accept any bid, or reject any or all bids, or to waive irregularities and/or informalities in any bid, and to make the award in any manner deemed in the best interest of the City.

The undersigned agrees if this proposal be given written acceptance by the City of Ann Arbor in the place provided therefor herein, it shall be a valid Contract.

Accepted on _____, 1963

City of Ann Arbor

By _____
Mayor

City Clerk

Approved as to Form

City Attorney

Bidder

By _____

Title _____

Official Address:

SPECIFICATIONS
FOR CONSTRUCTION OF GARAGE BUILDING
FOR
THE CITY OF ANN ARBOR, MICHIGAN

General

Work to be done by the Contractor

The Contractor shall furnish all labor materials, supplies, tools, and equipment required for the construction of the Garage Building.

Complete work required

It is the intent of these Contract documents to provide for the construction of the fully enclosed shell of a standard metal garage building and related work as shown on the plans and specifications included herein, complete, and all work clearly necessary therefor is to be included regardless of minor omissions in the plans or specifications. Minor deviations in dimensions and detail will be allowed if those shown in plans and specifications differ slightly from the manufacturers standard construction practice, to the end that a standard, more economical building is furnished within the broad requirements outlined. Deviations must be clearly noted, and do not relieve the bidder of his responsibility of providing a complete and finished building shell.

Care of existing structures

The Contractor shall be solely responsible for an damages caused by his operations to any existing underground mains, services, or other underground structures, or to structures above ground during construction of the Garage Building.

Permits and Inspections

The Contractor shall obtain the necessary building permits, from the Ann Arbor Building and Safety Department. These permits will, however, be furnished at no cost to the Contractor. After completion of construction and prior to acceptance by the City, the building shall be inspected and approved by the Building and Safety Department.

Correction of work after final payment

Neither the final payment nor any provision in the Contract documents shall relieve the Contractor of the responsibility for negligence or faulty materials or workmanship within the extent and period provided by law and, upon written notice, he shall remove any defects due thereto and pay for any damage due to other work resulting therefrom, which shall appear within one year after date of completion and acceptance.

DETAILED SPECIFICATIONS
FOR
GARAGE BUILDING CONSTRUCTION
AND RELATED WORK

Construction

Included in this contract is the furnishing of the garage building shell as specified herein, including block and brick on lower four feet; brick on lower four feet and siding to match garage above, on the east and north wall of the copper shed, and the north wall of the oil shed; facing of the front and underside of the roof overhang on the east and north walls of the copper shed; a new metal shed type roof on the oil shed including overhang of dock; repair of the east wall and roof of the copper shed as shown on plans, and taring of copper shed roof - one coat; replacing of the concrete deck of the copper shed loading dock, and boxing-in of loading dock with block and brick. New sliding door for copper shed.

No electrical, heating, or plumbing work included in this contract, except the installation of roof vents for individual gas space heaters, installation of exhaust fan, and all necessary electrical accessories for overhead doors.

Work Site

Existing block building to be removed by owner prior to 1 October, 1963. Existing floor and perimeter footing to remain, and be incorporated in the new building. The portion of the north garage wall which forms the south end of the copper shed is to be left in place until copper shed wall and roof repair work is done. This wall will be removed by owner at that time in cooperation with contractor.

Contractor must protect existing floor drains and hydraulic hoist mechanism during construction.

Existing temporary electric service to copper shed must be maintained as long as possible. Owner will make arrangements to have this disconnected however in cooperation with contractor when necessary. Electric cable conduits for gas pumps along base of west wall must be protected during construction.

Metal Building and Siding

Two 24 ft. bays shall be used at the east end of the building and two bays totaling approximately 37.5 feet at the west end. One 14 ft.x14 ft. electrically operated overhead door in the west wall of the building. Two 12 ft. high by 10 ft. wide electrically operated overhead doors in the second bay of the north wall. Minimum clear height 6 feet each side of center of east-west building axis to be 14 feet 6 inches. Minimum clear height between bay rafters to be 16 feet. Minimum clear inside height between bays at side walls to be 15 feet.

The factory applied color coat on exterior walls shall be a standard tan or light brown shade. Exact color to be used will be determined upon award of contract. Roof panels shall be white.

The contractor shall furnish complete fabrication and erection of the metal building as shown on the plans, including columns, purlins, girts, base angles, metal siding, metal roofing sheets, rain gutter, flashing closures, fasteners, calking, sealing, inner metal panels, insulation as hereinafter specified, foundation piers, anchor bolts, windows, ventilators, overhead doors, walk-in doors, roof vents, hardware, and any other material necessary to make a complete and weathertight installation.

The metal building shall be designed to withstand a 30 psf roof loading and a 20 psf sidewall wind loading.

Columns, purlins, rafters, girts and sill angles shall be fabricated from not less than 12 gauge sheet steel meeting ASTM Specification A215-61T, Grade D.

Ribbed exterior wall and roof sheets shall be rolled from not less than 26 gauge zinc coated steel meeting ASTM Specification A361-59T with 1.25 ounces of zinc per square foot. Ribbed sheets shall be coated with a factory applied color coat of baked-on enamel or vinyl film. This color coat shall have a final thickness of not less than 1.25 mil. All seams and joints shall be made weathertight with calking or sealing tape.

Inner panels on sidewalls as required shall be 20 gauge galvanized steel sheet.

Flashing at roof line shall be made from aluminum sheet stock 0.032-inch (3003-H174 alloy) in a patterned surface texture.

Fasteners and stitch screws for exterior steel sheets shall be galvanized or cadmium plated sheet metal screws with neoprene and galvanized washers. Fasteners for interior steel sheets shall be as specified above except that they need not have neoprene washers.

Complete erection shop drawings, in triplicate, shall be forwarded to the Engineer for review as soon as the contract has been awarded. Minor changes in foundation dimensions will be permitted with the proviso that no increase in price will be involved.

Metal building supplier shall furnish and install galvanized steel anchor bolts.

The exterior walk-in doors shall be flush type metal door, complete with 1- $\frac{1}{2}$ pair butt hinges, knobs and "Lockwood" cylinder lock. Door lock shall lock on closing and shall have a button or switch to block the lock open. It shall operate from the inside at all times.

The overhead doors shall be electrically powered, motor operated, paneled, sliding type, and shall be furnished and installed including all necessary hardware and accessories. Fiber Glass doors are preferred, but not required. Bidder shall state the door construction to be furnished along with any possible alternates. Doors shall be prepointed in a color to match the exterior siding of the building.

Sliding door for copper shed shall be of metal construction, of sufficient

size to cover the opening as shown and shall include all necessary hardware and mounting accessories.

Insulation

The Contractor shall furnish and install insulation under roof deck, on vertical walls and any other place shown on the drawings.

Insulation on ceiling and vertical walls shall be $1\frac{1}{2}$ inch thick batt insulation. Batts shall be spun inert mineral or fiber glass core with tabs integral for stapling to furring strips.

Insulation shall be fiber glass blanket insulation with a "K" factor at 25° F of not greater than 0.25. Blanket shall be $1\frac{1}{2}$ inch thick faced with a durable vinyl or aluminum vapor barrier surface, suitable as an exposed interior covering. Insulation on interior of roof and on sidewalls above 7-8 feet will be exposed, and must be neatly installed and present a finished appearance.

Painting

At the conclusion of the work, the Contractor shall do all painting work required in finishing the new work as below described.

The first coat of all paint shall be that best suited for use with the surfaces to be covered and with the finish coat. Whenever the color permits, the first coat shall be slightly tinted to the end that complete coverage of the second may be assured.

All surfaces to be painted shall be prepared in a workmanlike manner with the objective of obtaining a smooth, clean and dry surface.

In general, metal surfaces to be painted will have received a priming coat before shipment from the shop.

Unpainted or shop coated steel or iron shall first be washed free of grease, dirt and oil with petroleum solvents, then primed or spot primed, where metal is exposed, with rust inhibitive primer after removing any rust which may have formed. Galvanized metal shall be primed with a galvanized iron primer. All exterior metal, not prefinished at the factory, shall be painted with a suitable primer and two coats of an alkyd enamel paint to match the exterior siding.

All new interior metal, wood and block surfaces not prefinished, shall be painted with a suitable primer and two coats of a light green poxy enamel. Painting of the overhead concrete deck will not be required.

Five gallons of a suitable outside paint for concrete block shall be furnished in a color matching the factory applied exterior siding color.

Exterior Finish

The lower four (4) feet of the garage to be constructed with standard concrete block faced on the outside with Chicago Common Brick. Exterior above brick to be standard metal siding as previously specified, and including all necessary trim and flashing.

Overhead Storage Deck

An overhead concrete storage deck and steel stairway is to be constructed in the northwest portion of the garage as shown on plans. The deck to be capable of supporting a 100 #/S.F. storage load. Under clearance from garage floor to deck - 8 feet.

Overhead Beam and Trolley

Forty-eight (48) feet of overhead beam to be furnished and installed as shown on plans. This beam to be capable of supporting a 2 ton load at any point, and securely fastened to the bay rafters. (Beam to be Am. Std. 10"-35# or equal.) Furnish and install on beam, a minimum 2 ton capacity, geared, roller bearing trolley with hand drop chain extending to within three (3) feet of floor.

Counter

A counter 9 feet long x 2.5 feet wide x 3.5 feet high shall be constructed as shown on plans. It shall have one inside shelf, four doors across front, and a light grey formica top. It shall be shaped to fit around overhead deck supporting posts where necessary.

Repair of Copper Shed

Fire damaged portions of the east wall and roof of the copper shed shall be removed and repaired with similar material prior to placing siding. Approximate limits of area to be repaired are shown on plans. Upon completion of roof repairs, entire copper shed roof to be covered with one coat of hot tar.

Siding of Copper Shed and Oil Shed

The east and north walls of the copper shed, and the north wall of the oil shed shall be faced with Chicago Common brick to a height of four (4) feet and above that with the same exterior metal siding material used on the garage. The front face and underside of the copper shed roof/shall also be faced with prefinished metal siding. A new metal sliding door shall be installed on the copper shed as previously specified, in a color to blend with the metal siding.

New Roof on Oil Shed

The existing peaked metal roof on the oil shed shall be removed, and replaced with a prefinished metal shed type roof extending over the loading dock. Relocation of electric fixtures in oil shed will be done by owner in cooperation with contractor.

Copper Shed Dock

The concrete slab on copper shed loading dock is to be removed and a new slab placed. The front and end of the underside of the dock are to be blocked in with concrete block and faced with Chicago Common brick.

Ecology Center Site Plan Waiver

12042P10.9

NEW FILM

BEGINS

HERE

File No: W042P10.9 Filing Date: Sept '75 Area: _____Subject: Ecology Center Site Plan StinnerLocation: 2000 Industrial HighwayPetitioner(s) Paul Schradt, Director
417 Detroit St.
AAStaff Recommendation: Approval

CPC Public Hearing: _____ Date: _____

CPC Recommendation: Approved Date: 10/14/75City Council - Public Hearing: N/R Date: _____- Action: N/R Date: _____

File Assigned To: _____

Assistant Planning Director

Close Out Date: _____ Date Map(s) Updated: _____

RAYMOND

CONCRETE PILE DIVISION

RAYMOND INTERNATIONAL INC.

To City of Ann Arbor - Utilities Dept.

Date April 28-

Job No. ECB-12377-D

Location of Borings Ground Storage Reservoir; Industrial Road; Ann Arbor, Michigan

All borings are plotted to a scale of 1" = 8 ft. using Clients as a fixed datum.

No. No. 1 No. 2 No.

830

827.31

827.72

	0'0"	concrete		0'0"	concrete	
	0'6"	Note A	9	0'5"	Note A	9
	3'6"	firm med to crse brown SAND, SOME gravel.	19	3'6"	firm med to crse brown SAND AND GRAVEL.	24
<u>820</u>	8'6"	loose med to crse grey SAND, some gravel.	25	9'0"	Note C	16
	13'6"	med silty grey CLAY, seams of clayey silty ext. fine grey sand.	9	11'0"	Note D	19
	<u>810</u>		8	14'0"		7
	8'0"		7			11
	<u>800</u>		10			10
	29'0"		8			6
	<u>790</u>		7			100/6
	40'0"	very hard sandy, gravelly CLAY.	5	31'0"	Note E	100/6
			100/5			
			100/9			

SILT

Boring Completed 4-20-67
Used 14' of NX casing.
W.L. 2'0" Casing out.
W.L. 7'10" with casing at 14'.
W.L. 1'4" 18 hrs.

Note A
loose clayey med to crse brn SAND, some gravel.

Boring Completed 4-21-67
Used 11' of NX casing.
W.L. 2' casing out.

Note A
fill topsoil, clay sand.

Note B
loose clayey med to crse brn SAND some gravel, and brown clay. Surface water 2'.

Note C
med to crse grey SAND, some gravel.

Note D
loose clayey, silty ext. fine grey sand, seams of clay partings of crse sand.

Note E
very hard sandy gravelly grey CLAY.

Classifications are made by visual inspection.

Water levels (WL). Figure indicates time of reading (hours) after completion of boring. Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.

Figures in right hand column indicate number of blows required to drive 2" O.D. sampling pipe one foot, using 140-lb. weight falling 30 inches.

Total Footage
Foreman J. Pugh
Classification by Foreman
Sheet 2 of 3

RAYMOND

CONCRETE PILE DIVISION

RAYMOND INTERNATIONAL INC.

To City of Ann Arbor - Utilities Dept. Date April 28, 1967 Job No. ECB-12377-D

Location of Borings Ground Storage Reservoir; Industrial Road; Ann Arbor, Michigan

All borings are plotted to a scale of 1" = 8 ft. using See Location Plan. as a fixed datum.

No. _____ No. 3 No. 4 No. _____

830.34

830	0'0"	Fill sand, clay gravel.	7
	3'0"	firm med to coarse brown sand and gravel.	21
			22
820		Surface water 3'3".	31
	12'0"		12
		loose clayey silty fine brown sand, seams of clay	9
	17'0"		15
810		med grey CLAY, seams of clayey silty ext. fine grey sand.	7
			5
800	31'0"		100/3"
	31'4"		

Note A
Boring Completed 4-24-67
Used 14' of NX casing.
W.L. 2'7" casing out.

Note A
very hard sandy gravelly grey CLAY.

826.25

0'0"	Fill sand cinders, clay gravel.	8
2'6"		
3'4"	silty CLAY.	23
	firm med to coarse brown sand and gravel.	19
8'6"		14
11'6"	firm clayey silty fine brown SAND.	
	med silty grey CLAY, seams of clayey silty ext. fine grey sand.	9
		11
		7
		5
31'0"		100/8
31'8"		

Note A
Boring Completed 4-24-67
Used 11' of NX casing.
W.L. 3'2" casing out.

Note A
very hard sandy gravelly grey clay.

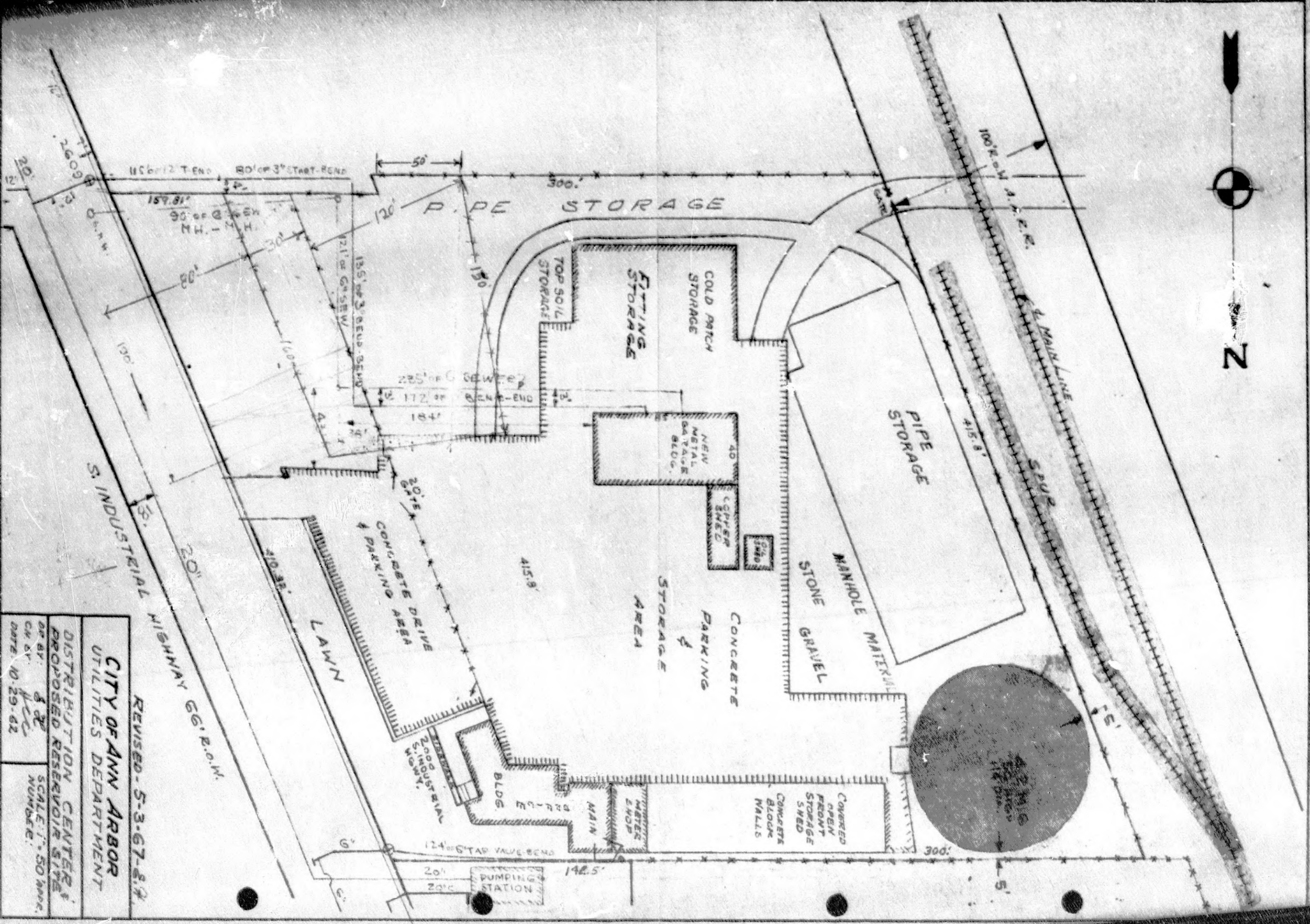
30
60
100
30 40
32 60
200 1/2
62

Classifications are made by visual inspection.

Water levels (W.L.). Figure indicates time of reading (hours) after completion of boring. Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.

Figures in right hand column indicate number of blows required to drive 2" O.D. sampling pipe one foot, using 140-lb. weight falling 30 inches.

Total Footage _____
Foreman J. Pugh
Classification by Foreman
Sheet 3 of 3



REVISED-5-3-67-87
CITY OF ANN ARBOR
UTILITIES DEPARTMENT
DISTRIBUTION CENTER
PROPOSED RESERVOIR SITE
DR. BY: J.C.C.
CH. BY: J.C.C.
DATE: 10-29-62
SCALE: 1" = 50' HOR.
NUMBER:



3 September 1975

ECOLOGY CENTER OF ANN ARBOR
RECYCLING CENTER
PRELIMINARY COST ESTIMATE

QTY	ITEM	UNIT COST	TOTAL
356 C.Y.	Gravel	\$ 5.00	\$ 1,781.00
586 S.Y.	Asphalt	\$ 7.00	\$ 4,107.00
329 C.Y.	Grading	\$ 2.00	\$ 658.00
6 Ea.	Gates with fence	\$250.00	\$ 1,500.00
6 Ea.	Flowering trees	\$100.00	\$ 600.00
33 Ea.	Pines	\$ 80.00	\$ 2,640.00
1,044 S.Y.	Seed	\$.40	\$ 420.00
1 Ea.	Relocate trees	\$100.00	\$ 100.00
			<u>\$13,440.00</u>
	10% contingency		<u>\$ 1,344.00</u>
			<u><u>\$14,784.00</u></u>

BECKETT JACKSON RAEDER INC

230 Huronview Boulevard

Ann Arbor, Michigan 48103

(313) 665-9146

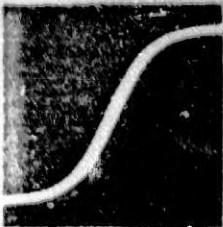
John M. Beckett

William M. Jackson

J. Paul Raeder

Howard Deardorff

Bruce A. Rankin



U.W. STOLL ASSOCIATES soil mechanics and foundation consultants
111 WEST KINGSLEY STREET ANN ARBOR, MICHIGAN 48103 (313) 994-5055

ULRICH W. STOLL
GARRETT EVANS
IN-KUIM KIM

September 9, 1975

MEMORANDUM

TO: Paul Schrodtt, Ecology Center
FROM: U. W. Stoll
SUBJECT: Truck Turning Area
Proposed Recycling Station

A cursory examination of soil conditions in the area of the proposed truck turning area indicates a well drained, compact clean sand and gravel, extending to at least a depth of about 8 inches with approximately 2 inches of grass-topsoil. Previous soil borings in the area (see Raymond Company Report ECB-12377-D, copy appended) indicates sand may extend to perhaps 10 feet depth. We observed the site subsequent to a period of extraordinarily heavy rainfall, and there was no evidence of ponding or softening.

I judge the in-situ soil as capable of supporting directly the proposed occasional truck movements. The topsoil should be removed and the area regraded and compacted as required to provide rainfall runoff. On-site soil may be used to adjust the grade and should be supplemented as required by adding M.D.S.H. 23A aggregate surface course (obtainable from local gravel suppliers). This work could be done in conjunction with the other site grading and paving.

LEASE

The City of Ann Arbor, a Michigan municipal corporation (hereinafter referred to as "City"), leases to Enact Ecology, Inc., a Michigan nonprofit corporation (hereinafter referred to as "Ecology Center"), certain property hereafter described in accordance with the following terms and conditions:

1. Property. The property leased is indicated on Exhibit A hereto by the notation "Ecology Recycling Operation".

2. Term. The lease term shall commence October 1, 1975 and continue thereafter for a period of five (5) years.

3. Rent. The Ecology Center shall annually pay the City rent for One Dollar (\$1.00).

4. Improvements. The Ecology Center shall make the following improvements on the property prior to using it for recycling:

(a) Remove existing fence as shown on Exhibit A;

(b) Install fencing and gates as shown on Exhibit A. Said fencing shall be six (6) feet high, chain link with posts at ten (10) foot intervals. It shall have three (3) strands of barbed wire on top;

(c) All ^{automobile} ~~vehicle~~ use areas, including the entrance drives, shall be paved with asphalt;

(d) The Ecology Center will work with the City Utilities Department to rearrange the landscaping previously planned for the property;

(e) Portable toilet facilities shall be installed and maintained on the site.

5. Use of Property. The Ecology Center shall use the premises solely for collection of materials for recycling, including ^{but not limited to} ~~paper~~, glass, cans and lubricants. No use may be made of the property which violates any state, local or federal law.

6. Maintenance. The Ecology Center shall keep the property in a clean and orderly condition and shall not permit health or safety hazards

to exist thereon. The Ecology Center shall notify persons not to leave material at the site when it is not open for use. If material is left outside the fenced area, the Ecology Center shall promptly remove it.

7. Indemnification. The Ecology Center agrees to indemnify and hold harmless the City from any claims for injuries to persons or property arising out of the use of the site.

8. Insurance. The Ecology Center shall at all times during the term of the lease maintain insurance for liability arising out of the use of the site. Said insurance shall have limits of not less than One Million Dollars (\$1,000,000.00) per occurrence for injuries to persons and not less than Fifty Thousand Dollars (\$50,000.00) per occurrence for injuries to property. The City shall be named as an additional insured on said insurance policies. Evidence of said policies shall be submitted to the City prior to any improvement of the site.

9. Assignment. This lease may not be assigned by the Ecology Center and no portion of the property may be sublet.

10. Vacation of Property. At the end of the term hereof or at such other time as the Ecology Center shall cease to use the property, the Ecology Center shall remove the paving from the entrance drives and replace the curbing in front of said drives.

11. Re-Entry. If the Ecology Center violates any of the terms hereof and said violation continues for thirty (30) days after notice from the City, the City shall have the right to re-enter the premises and to evict the Ecology Center therefrom.

12. This instrument is the entire agreement between the parties regarding the leased premises. It may not be amended except by written agreement signed by all parties.

Approved as to substance:

CITY OF ANN ARBOR, a Michigan
municipal corporation

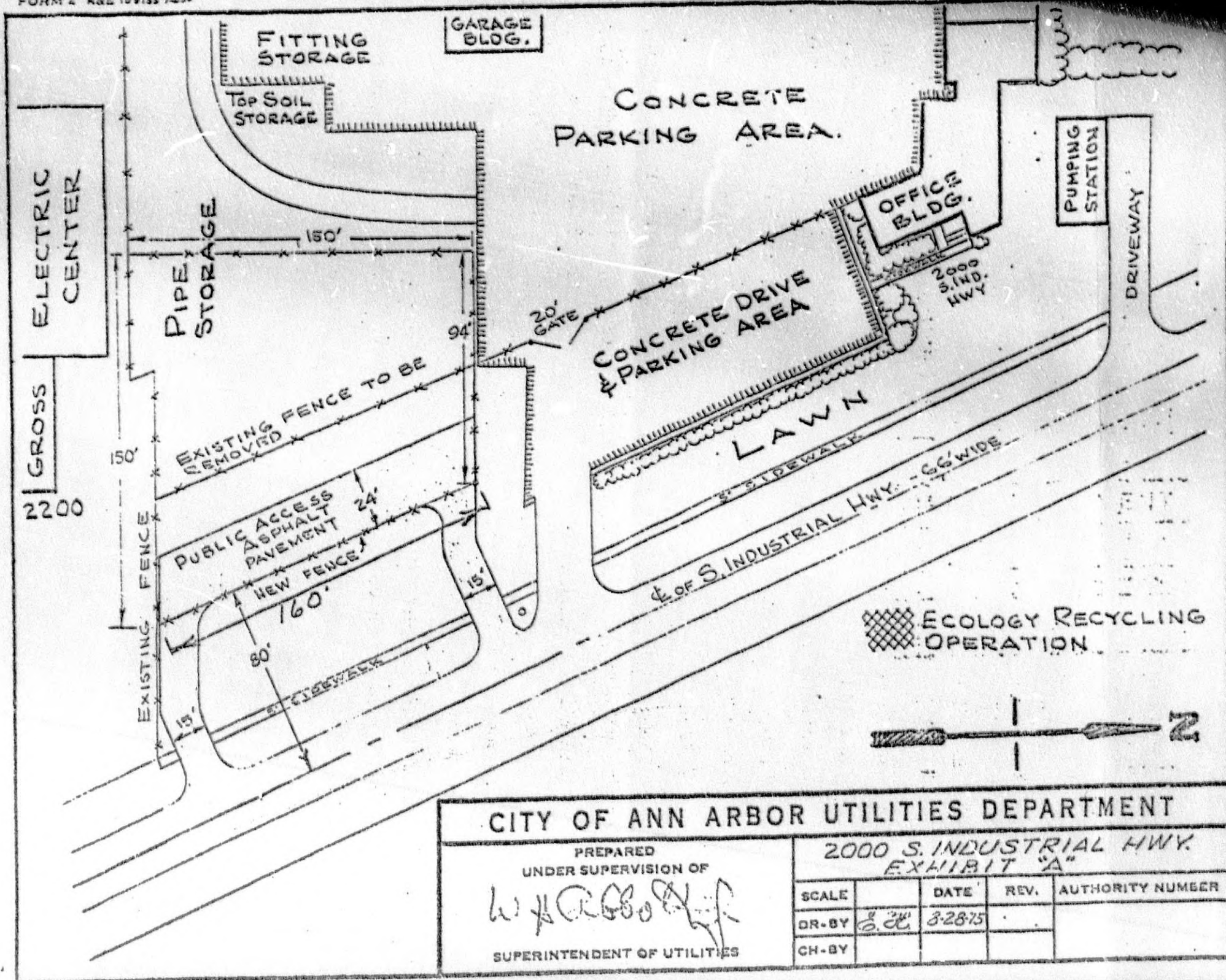
City Administrator _____
By Albert H. Wheeler, Its Mayor

Approved as to form:

By Jerome S. Weiss, Its Clerk
ENACT ECOLOGY, INC., a Michigan
nonprofit corporation

City Attorney _____

By



-4-

CITY OF ANN ARBOR UTILITIES DEPARTMENT

PREPARED UNDER SUPERVISION OF

W. J. R. Bobbly
SUPERINTENDENT OF UTILITIES

2000 S. INDUSTRIAL HWY.
EXHIBIT "A"

SCALE	DATE	REV.	AUTHORITY NUMBER
DR-BY <i>S. J.</i>	3-28-75		
CH-BY			

ECOLOGY CENTER of ANN ARBOR

417 Detroit Street
Ann Arbor, Michigan 48104
313-761-3186



September 11, 1975

Mr. Martin Overhiser, Director
Planning Department - City of Ann Arbor
100 N. Fifth
Ann Arbor, Mi 48108

Dear Martin,

I have submitted to the Planning Department the site plan specifications for the recycling facility to be located at 2000 S. Industrial Highway. A contract to construct and operate this facility was approved by Ann Arbor City Council on September 2. We submit these materials to insure that the facility will comply with appropriate state and local regulations.

In reviewing these materials, we ask you to consider the appropriateness of issuing a site plan waiver with the advice and consent of the Planning Commission. Since this facility is being constructed on city land under contract with the city, we believe this procedure may be appropriate. City Council has already approved the location and proposed uses; the contract also specifies improvements, operating conditions, and compliance with state, local and federal laws. Thus, we feel further Council review may be unwarranted.

In addition, please be advised that the two sheds indicated on the plan are platform structures which we will merely re-locate from our existing facility.

Please let me know what procedure and timetable we shall follow and if we should furnish any additional information.

Thank you for your interest and consideration.

Sincerely,

Paul
Paul Schrodt
Director

Ecology Center of Ann Arbor
Recycling Center - Site Plan Specifications

All specifications not addressed in this text can be found on the accompanying maps.

a. General

3. see attached contract with City of Ann Arbor
6. Site development will begin immediately following Planning Commission (and City Council) approval. All construction, including fencing, grading, paving and landscaping, should occur within a 2 - 3 week period.
8. see attached contract with City of Ann Arbor.

b. Site Condition, Natural Features, and Landscaping

1. The existing site is flat except for a slight grade along the south edge of the property. There are no five foot intervals to be indicated. Two landscape berms are proposed at a height of 3 - 4 '.
2. There are 4 existing trees along the front of the site. These will be retained. One small tree, planted this year, will have to be moved.
- 3-7. The site will have approximately 5300 sq. ft. of paved vehicular use area. Thus, at least 53 sq. ft. of landscaped area is required. We propose to plant 33 six foot Austrian pines and six flowering trees to buffer the site. The trees will be spaced as shown on the site plan drawing. This plan is subject to modifications by the Utilities Department.
8. see attached memo from U. Stoll and Associates.
12. see Stoll and Associates memo.
13. The gravel base truck turning area (see map) will be graded such that any surface water not absorbed on site will drain to the existing paved driveway adjacent to the site. Soil inspection indicates this run-off will be minimal. The paved vehicle access area will be raised and will drain towards the grassy area in front of the proposed facility. Entrance and exit drives will be crowned and will drain to the adjacent lawn and to the street.
14. see attached preliminary cost estimates
15. Culverts will be installed under the entrance and exit drives so as not to interrupt the existing drainage course along S. Industrial.

Recycling Center - Site specifications continued

c. Land Use

- 10x9
10x15
3. There will be two small sheds moved from the existing site to the proposed site. One shed is approximately 8½' in height, the other approximately 10'. See map for placement.
 7. We will construct a 6' chain link fence (#11 gauge) as shown on the map. A 6' wood fence with vertical slats is proposed for one corner of the site, subject to approval by the Utilities Department.

12042 P10.5



CITY OF ANN ARBOR MICHIGAN
P L A N N I N G D E P A R T M E N T
100 N. 5th Ave., P.O. Box 647, Ann Arbor, Michigan 48107

September 15, 1975

Mr. Paul Schrodt, Director
Ecology Center of Ann Arbor
417 Detroit Street
Ann Arbor, MI 48104

SUBJECT: ECOLOGY CENTER RECYCLING CENTER SITE PLAN

Dear Paul:

I have reviewed your request for a site plan waiver for the proposed Recycling Center. Your September 11, 1975 letter requested the waiver because "this facility is being constructed on city land under contract with the city. . . ." The Planning Director, however, can only waive a site plan "for structures not intended for human use or occupancy. . ." (Title V, Chapter 57, Section 5:124(c) of the City Code). The Recycling Center site plan indicates there will be two small buildings on the subject site. Since these structures will be used by the Recycling Center's volunteers and employees, the City Code, in my opinion, requires submittal of a site plan.

The site plan fee is \$80. The City Planning Commission hearing will be held on October 14, 1975, after which the plan will be submitted to Council for a public hearing on November 3; and final action should take place on November 17, 1975.

If you have any questions, feel free to call me.

Sincerely,

Martin W. Overhiser
Planning Director

MWO/dsw
cc File

MEMO

TO: City Planning Commission
FROM: Martin W. Overhiser, Planning Director *MWO*
SUBJECT: Ecology Center Recycling Center Site Plan Waiver
FILE NUMBER: 12042P10.9
LOCATION: South Industrial Highway
PETITIONER: Paul Schrodtt, Director
417 Detroit Street
Ann Arbor, Michigan 48104
CURRENT ZONING: PL CURRENT LAND USE: Storage Yard
PROPOSED ZONING: Same PROPOSED LAND USE: Recycling Center
CPC PUBLIC HEARING: None
CPC ACTION DATE: October 14, 1975

PROPOSED CITY PLANNING COMMISSION MOTION:

Ann Arbor City Planning Commission hereby approves of the site plan waiver as recommended by the Planning Director for the Ecology Center Recycling Center relocation on South Industrial Highway.

STAFF RECOMMENDATION: Approval - October 8, 1975

STAFF REPORT

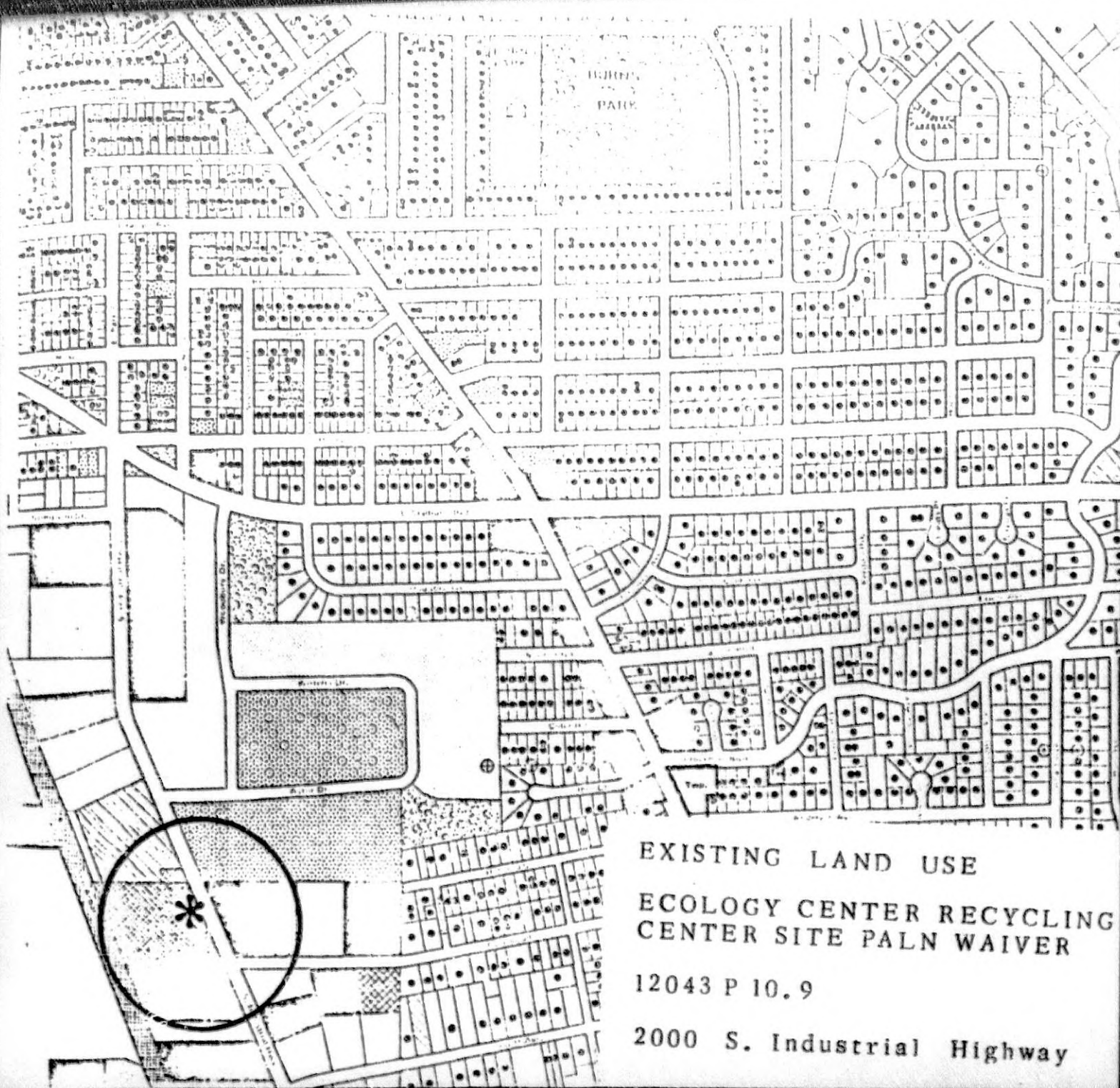
The petitioner is requesting site plan waiver for the relocation of the Ecology Recycling Center proposed to be constructed on city land. Review of this proposal with the various city departments revealed no physical problems. The proposal calls for the construction of a 5,300-square-foot paved vehicular use area and the relocation of a number of industrial collection bins. There will not be any structures intended for human use or occupancy on this site.

Staff recommends that Commission approve a waiver of site planning requirements as outlined under Section 5:124(1)(c) of Chapter 57 of the City Code. Paved areas and industrial collection bins are considered as structures "not intended for human use or occupancy".

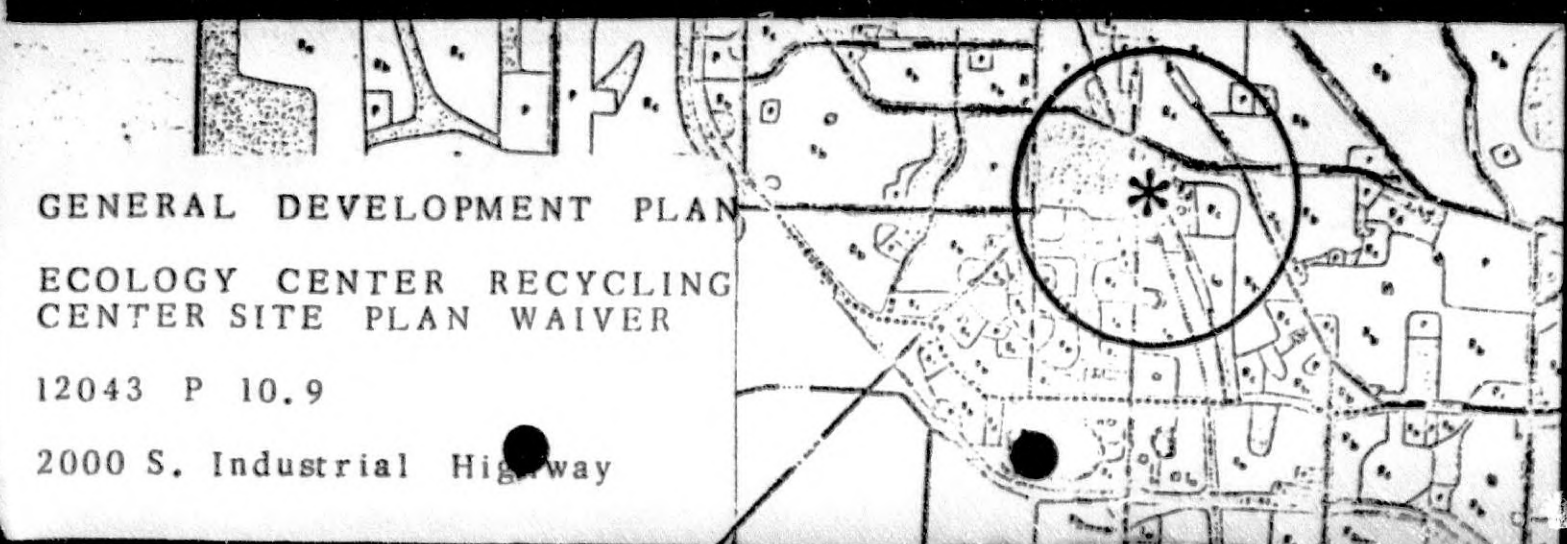
Attach: Land Use Map
Location Map

cc: Petitioner
Building & Safety Engineering
Streets, Traffic & Parking

10/8/75
ELW:st



EXISTING LAND USE
ECOLOGY CENTER RECYCLING
CENTER SITE PALN WAIVER
12043 P 10.9
2000 S. Industrial Highway



GENERAL DEVELOPMENT PLAN
ECOLOGY CENTER RECYCLING
CENTER SITE PLAN WAIVER
12043 P 10.9
2000 S. Industrial Highway

MEMO

TO: City Planning Commission
FROM: Martin W. Overhiser, Planning Director *MWO*
SUBJECT: Ecology Center Recycling Center Site Plan Waiver
FILE NUMBER: 12042P10.9
LOCATION: South Industrial Highway
PETITIONER: Paul Schrodt, Director
417 Detroit Street
Ann Arbor, Michigan 48104
CURRENT ZONING: PL CURRENT LAND USE: Storage Yard
PROPOSED ZONING: Same PROPOSED LAND USE: Recycling Center
CPC PUBLIC HEARING: None
CPC ACTION DATE: October 14, 1975

PROPOSED CITY PLANNING COMMISSION MOTION:

Ann Arbor City Planning Commission hereby approves of the site plan waiver as recommended by the Planning Director for the Ecology Center Recycling Center relocation on South Industrial Highway.

STAFF RECOMMENDATION: Approval - October 8, 1975

STAFF REPORT

The petitioner is requesting site plan waiver for the relocation of the Ecology Recycling Center proposed to be constructed on city land. Review of this proposal with the various city departments revealed no physical problems. The proposal calls for the construction of a 5,300-square-foot paved vehicular use area and the relocation of a number of industrial collection bins. There will not be any structures intended for human use or occupancy on this site.

Staff recommends that Commission approve a waiver of site planning requirements as outlined under Section 5:124(1)(c) of Chapter 57 of the City Code. Paved areas and industrial collection bins are considered as structures "not intended for human use or occupancy".

Attach: Land Use Map
Location Map

cc: Petitioner
Building & Safety Engineering
Streets Traffic & Parking

10/8/75
ELW:st

SUBJECT Ecology Center Site Plan

Planning File No. 1204 & P10.5 Date Referred by Planning 11-17-75

Date to be Returned by 11-25-75

TO: Environmental Site Coordinator
Department of Building and Safety Engineering

FROM: Planning Director

The attached plan has been submitted by The Ecology Center in accordance with the established procedures for departmental review and recommendation. Please review the items below. A "yes" response implies that the information supplied is adequate to determine compliance with city regulations. All negative responses should be fully explained (on a separate sheet, if necessary). Please respond within the required time limit.

	Yes	No
1. Is the acreage shown to the nearest tenth of an acre?	___	✓
2. Is the density of dwelling units/acre shown and proper?	✓	___
3. Is building height, area, and placement adequate?	✓	___
4. Is the number and layout of parking spaces adequate?	___	✓
5. Is buffer and interior landscaping adequate if needed?		
a) along public rights-of-way? <i>species not listed</i>	___	✓
b) between conflicting land uses?	✓	___
c) to break up off-street parking and vehicular use areas?	N/A	___
d) to screen refuse areas?	✓	___
6. Is the grading and erosion control plan adequate? <i>not advised</i>	___	___
a) proposed topographic contours <i>or elevations</i>	___	✓
b) cut and fill certification	N/A	___
c) timing schedule (duration of soil exposure)	N/A	___

Sign, as shown, is not approved. It must be at least 15' from the P.O.U.

RECEIVED

NOV 19 1975

Building & Safety Engr.

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Permit Search

Search By: Address Contains 2000 s industrial SEARCH

[Click here for search examples](#)

Search Results	Permit #BLDG21-0550																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Permit Number</th> </tr> </thead> <tbody> <tr><td>BLDG16-2349</td></tr> <tr><td>BLDG21-0550</td></tr> <tr><td>ELEC16-1478</td></tr> <tr><td>ELEC17-0178</td></tr> <tr><td>ELEC19-0026</td></tr> <tr><td>ELEC19-0915</td></tr> <tr><td>ELEC20-1238</td></tr> <tr><td>ELEC20-1276</td></tr> <tr><td>ELEC21-0889</td></tr> <tr><td>MECH13-1435</td></tr> <tr><td>ROW17-0565</td></tr> <tr><td>ROW21-0531</td></tr> <tr><td>ROW21-0555</td></tr> <tr><td>TCP21-0365</td></tr> </tbody> </table>	Permit Number	BLDG16-2349	BLDG21-0550	ELEC16-1478	ELEC17-0178	ELEC19-0026	ELEC19-0915	ELEC20-1238	ELEC20-1276	ELEC21-0889	MECH13-1435	ROW17-0565	ROW21-0531	ROW21-0555	TCP21-0365	<div style="margin-bottom: 10px;"> Inspections </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Permit Info</th> <th>Site Info</th> <th>Contacts (5)</th> <th>Inspections(1)</th> <th>Reviews (8)</th> </tr> </thead> <tbody> <tr> <td colspan="5" style="text-align: center;"> <p>Type: BUILDING</p> <p>Subtype: COMM ADD/ALT</p> <p>Short Description: Install pads for DTE transformer & equipment - EV charging</p> <p>Status: EXPIRED</p> <p>Applied Date: 3/23/2021</p> <p>Approved Date: 3/26/2021</p> <p>Issued Date: 3/26/2021</p> <p>Finalized Date:</p> <p>Expiration Date: 10/11/2021</p> <p>Notes: (3/23/2021 9:34 AM JHY) for city inspector vehicles</p> <p>(3/26/2021 10:14 AM JHY) approval email sent, permit issued. ELEC too</p> </td> </tr> <tr> <td colspan="5">Linked Activities:</td> </tr> <tr> <td colspan="5"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Permit(s)</th> </tr> </thead> <tbody> <tr> <td>ELEC21-0889 ELECTRICAL FINALED</td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="5">Attachments:</td> </tr> <tr> <td colspan="5" style="text-align: center;"> FEES ANNARBORPMTFEESDUE_01.PDF BLDG21-0550 Application.pdf BLDG21-0550 Application.pdf BLDG21-0550 Applied Plans.pdf BLDG21-0550 Applied Plans.pdf BLDG21-0550 Applied Site Plan.pdf BLDG21-0550 Applied Site Plan.pdf BLDG21-0550 SITE COPY PLAN REVIEW.pdf BLDG21-0550 PLAN REVIEW.pdf </td> </tr> </tbody> </table>	Permit Info	Site Info	Contacts (5)	Inspections(1)	Reviews (8)	<p>Type: BUILDING</p> <p>Subtype: COMM ADD/ALT</p> <p>Short Description: Install pads for DTE transformer & equipment - EV charging</p> <p>Status: EXPIRED</p> <p>Applied Date: 3/23/2021</p> <p>Approved Date: 3/26/2021</p> <p>Issued Date: 3/26/2021</p> <p>Finalized Date:</p> <p>Expiration Date: 10/11/2021</p> <p>Notes: (3/23/2021 9:34 AM JHY) for city inspector vehicles</p> <p>(3/26/2021 10:14 AM JHY) approval email sent, permit issued. ELEC too</p>					Linked Activities:					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Permit(s)</th> </tr> </thead> <tbody> <tr> <td>ELEC21-0889 ELECTRICAL FINALED</td> </tr> </tbody> </table>					Permit(s)	ELEC21-0889 ELECTRICAL FINALED	Attachments:					FEES ANNARBORPMTFEESDUE_01.PDF BLDG21-0550 Application.pdf BLDG21-0550 Application.pdf BLDG21-0550 Applied Plans.pdf BLDG21-0550 Applied Plans.pdf BLDG21-0550 Applied Site Plan.pdf BLDG21-0550 Applied Site Plan.pdf BLDG21-0550 SITE COPY PLAN REVIEW.pdf BLDG21-0550 PLAN REVIEW.pdf				
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The City of Ann Arbor, MI makes every effort to produce and publish the most current and accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use, or its interpretation. Utilization of this website indicates understanding and acceptance of this statement.

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Permit Search

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Search Results

Permit Number
BLDG16-2349
BLDG21-0550
ELEC16-1478
ELEC17-0178
ELEC19-0026
ELEC19-0915
ELEC20-1238
ELEC20-1276
ELEC21-0889
MECH13-1435
ROW17-0565
ROW21-0531
ROW21-0555
TCP21-0365

Permit #ELEC20-1276

Inspections

Permit Info Site Info Contacts (4) Inspections(2) Reviews

Type: ELECTRICAL

Subtype: ELECTRICAL

Short Description: Installation of aboveground fuel storage tank

Status: FINALED

Applied Date: 6/19/2020

Approved Date: 6/22/2020

Issued Date: 6/22/2020

Finalized Date: 8/26/2020

Expiration Date:

Notes:

Attachments:

ELEC20-1276 applied.pdf ELEC20-1276 applied.pdf
ELEC20-1276 permit ANNARBORBUILDINGPERMIT - SINGLE COPY PR.PDF

The City of Ann Arbor, MI makes every effort to produce and publish the most current and accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use, or its interpretation. Utilization of this website indicates understanding and acceptance of this statement.

Andrew Temerowski

From: Andrew Temerowski
Sent: Monday, February 21, 2022 3:23 PM
To: foia@ewashtenaw.org
Subject: FOIA Request 2000 South Industrial Highway, Ann Arbor, MI
Attachments: Property Sheet Washtenaw GIS.pdf

In accordance with the Michigan FOIA, Atlas Technical Consultants, respectfully requests information/documentation associated with septic tank documents/plans, utility connection dates for water, sanitary, storm sewer, natural gas; and wells (drinking water, public water supply, monitoring) for the following address: 2000 & 2050 South Industrial Highway; Ann Arbor, Michigan 48108; Parcel No. 09-12-04-200-013 This property is currently occupied by Ann Arbor Housing Commission.

Atlas respectfully requests to be notified prior to the accrual of fees associated with this request.

Thank you,

Andrew Temerowski
Project Scientist



46555 Humboldt Drive, Suite 100
Novi, MI 48733
O: 248.669.5140 | C: 269.599.3693
OneAtlas.com | [LinkedIn](#) | [Facebook](#) | [Twitter](#)



ENR #9 Top Environmental Management Firm
ENR #15 Top Construction Management Firm
ENR #47 Top Program Management Firm

Andrew Temerowski

From: MI LARA FOIA Center <michiganlara@govqa.us>
Sent: Tuesday, March 1, 2022 3:57 PM
To: Andrew Temerowski
Subject: FOIA Request :: R084721-022122

--- Please respond above this line ---



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY
LANSING

March 01, 2022

RE: PUBLIC RECORDS REQUEST of February 22, 2022, Reference # R084721-022122.

Dear Requester:

The Michigan Department of Licensing and Regulatory Affairs (LARA) has received your February 22, 2022 request for records and has processed it under the provisions of the Michigan Freedom of Information Act (FOIA), 1976 PA 442, MCL 15.231 *et seq.*

You requested the following, in summary:

“2000 South Industrial Highway, 2050 South Industrial Highway, 1990 South Industrial Highway, 2141 South State Street, and 2245 South State Street, Ann Arbor, Washtenaw County, Michigan. Pursuant to the Freedom of Information Act, we are requesting any available information on the presence of above/underground storage tanks and/or leaking underground storage tanks and Baseline Environmental Assessments (BEAs) at the above locations. We want to identify, specifically, whether 1) underground storage tanks (USTs) are currently present at these sites or whether USTs were present in the past, 2) whether any USTs present at these locations have been identified as leaking. We would like to discuss available file information.”

Your request has been granted in part and denied in part. Please see comments below.

Comments:

As to the partial grant, the records are available in the [FOIA Center](#). **For future requests, please also note that a list of underground storage tank information in the possession of LARA may now be accessed via the following link: [Underground Storage Tank Information](#).**

As to the partial denial:

- LARA certifies that, to the best of LARA's knowledge, information, and belief, the information does not exist within LARA under the description given or another reasonably known to LARA. MCL 15.235(5)(b). No records exist for the 2050, 2141, and 2245 South State Street locations.
- The records/information you requested have been redacted because they contain financial information [FEIN] that would identify or provide a means of identifying a person that may, as a result of the disclosure of the information, become a victim of a cybersecurity incident. MCL 15.243(1)(z).

Under section 10 of the FOIA, MCL 15.240, the Department is obligated to inform you that you may do the following:

1) Appeal this decision in writing to Appeals Officer Adam Sandoval, Department of Licensing and Regulatory Affairs, P.O. Box 30004, Lansing, MI 48909. The writing must specifically state the word "appeal" and must identify the reason or reasons you believe the partial denial should be reversed. The head of the Department or her designee must respond to your appeal within 10 business days of its receipt. Under unusual circumstances, the time for response to your appeal may be extended by 10 business days.

2) Commence an action in the Court of Claims within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Please note: These records will be available in the FOIA Center for 365 calendar days; and will then be destroyed as required by the Department's records and retention schedule.

If you have questions concerning this matter, please email us at larafoiainfo@michigan.gov.

To review a copy of LARA's written public summary, procedures, and guidelines, please visit www.michigan.gov/larafoia.

Sincerely,

Phillip A. Hendges

LARA FOIA Office

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division

P O Box 30033 Lansing, MI 48909

Phone 517-241-8847, Fax 517-332-1428

INTENT OF REMOVAL, CLOSURE OR CHANGE-IN-SERVICE OF UNDERGROUND STORAGE TANKS

This information is required pursuant to Part 211 Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451 as amended

HMSI: Scott Elliott	IOC#: IRCC-000061-20
Fee Balance: \$0.00	FACILITY NUMBER: 00010237

I. OWNERSHIP OF TANKS	II. LOCATION OF TANKS
NAME OF OWNER: City of Ann Arbor STREET ADDRESS: 301 E. Huron St. CITY Ann Arbor STATE MI ZIP 48104	FACILITY NAME: Fleet & Facilities Service Unit ADDRESS 2000 S INDUSTRIAL HWY, ANN ARBOR, MI 48104
CONTACT: PHONE 7347946312	CONTACT Dennis Crum PHONE 7347946390

NOTIFICATION SUBMITTED BY: Rich Williams	COMPANY Matzak Inc.
DATE NOTIFICATION SUBMITTED 04/21/2020	PHONE 5867495600

THIS IS NOT A REGISTRATION FORM AN AMENDED TANK REGISTRATION FORM, BFS-3821, AND A COMPLETE SITE ASSESSMENT (Form BFS-3881) MUST BE FILED WITH THE BUREAU OF FIRE SERVICES, STORAGE TANK DIVISION, TO REMOVE THE LISTED TANKS FROM THE BILLING CYCLE
BUREAU OF FIRE SERVICES - APPROVAL NOTICE
Approval is given to perform the indicated activity at the above facility location Action indicated above may commence on or after 05/21/2020
Expiration Date 11/17/2020 If action is not taken by the expiration date, you must submit another notification

Authorizing BFS Staff: Jessica Steward	Date Approval Sent to Owner
--	-----------------------------

REPORTING REQUIREMENTS:

An underground storage tank (UST) subject to Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, (Act 451) must be registered by the current owner and have all fees paid to be considered registered with the BFS.

A site assessment shall be conducted during the closure/change-in-service, with results sent to the BFS along with the form provided. The owner/operator must also submit an amended registration form notifying the BFS of completion of closure/change-in-service within 30 days after the date of the closure/change-in-service.

INSURANCE REQUIREMENTS:

Pursuant to Section 21107 of Part 211, a person who removes USTs shall maintain pollution liability insurance of not less than \$1,000,000 per occurrence.

CONFIRMED RELEASE:

A confirmed or suspected release must be reported to the BFS within 24 hours. A confirmed release waives the requirements of submitting

this form, waiting 30 days, and conducting a site assessment. Once reported, the owner/operator will be informed regarding rules for further testing and cleanup activities. Releases may be reported by fax to 517-332-1428 or called in to 517-335-7210.

CLOSURE OF TANKS:

Tanks shall be emptied of all liquid and accumulated sludge and purged of all vapors. Piping shall be emptied of all liquid and sludge, purged and capped, or removed from the ground. *Permanent closure* requires removal of the UST from the ground, unless it can be documented that removal of the UST would cause damage to a permanent structure. The tank can be closed-in-place after the 30 day waiting period provided that the required documentation is placed in the owner's file. If closure in place is necessary, the tank must be emptied of liquid, sludge and vapors and filled 100 percent with inert solid material (sand, fly-ash concrete or pea gravel). Piping shall be closed as indicated above. A site assessment report is still required if tanks are closed-in-place.

CHANGE-IN-SERVICE:

A change-in-service is defined as going from the storage of a regulated substance to an unregulated substance. The tank must be cleaned and purged as stated above, and a site assessment must be performed prior to the introduction of the unregulated substance.

NOTIFICATION:

Per R 29.2153(d) of the administrative rules promulgated under Part 211 of Act 451, the owner/operator shall notify the Hazardous Materials Storage Inspector Scott Elliott 517-435-9938 not less than two working days prior to the work being performed.

If you have questions regarding the above instructions, please contact the BFS, Storage Tank Division, at 517-335-7210.

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division
P.O. Box 30033, Lansing, MI 48909
Phone 517-241-8847, Fax 517-332-1428

INTENT OF REMOVAL, CLOSURE OR CHANGE-IN-SERVICE OF UNDERGROUND STORAGE TANKS
This information is required pursuant to Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.
An owner/operator who fails to notify is subject to a misdemeanor and/or civil penalties, not to exceed \$5,000 per day for each tank.

INSTRUCTIONS: NOTICES WILL ONLY BE ACCEPTED ON THIS FORM. THE UST MUST BE REGISTERED PRIOR TO SUBMITTAL OF THIS FORM. Please type or print clearly ALL information must be completed. See page 2 for additional information. If you have questions contact 517-335-7210 or fax to 517-332-1428.

HMSI:		IOC# <u>TRC-00061-20</u>	
Fee Balance:		FACILITY NUMBER (see Invoice) 00010237	
I. OWNERSHIP OF TANKS		II. LOCATION OF TANKS	
<input type="checkbox"/> PLEASE CHECK IF NEW OWNER'S ADDRESS		<input type="checkbox"/> PLEASE CHECK IF SAME AS SECTION I	
NAME OF OWNER (CORPORATION, INDIVIDUAL, ETC) City of Ann Arbor		FACILITY NAME OR COMPANY SITE IDENTIFIER Fleet & Facilities Service Unit	
STREET ADDRESS 301 E. Huron St.		STREET ADDRESS (P.O. Box Not Acceptable) 2000 South Industrial Hwy	
CITY Ann Arbor	STATE MI	ZIP CODE 48104	CITY Ann Arbor
	TOWNSHIP Washtenaw		STATE MI
			ZIP CODE 48104
AREA CODE & TELEPHONE NUMBER (734) 794-6312		CONTACT PERSON FOR LOCATION Dennis L. Crum	AREA CODE & TELEPHONE NUMBER (734) 794-6390 x43505

TANK INFORMATION				
TANK NUMBER AS INDICATED ON UST INVOICE	PRODUCT LAST STORED IN TANK	SIZE OF TANK (GALLONS)	PIPING TO BE REMOVED YES NO	INDICATE ACTION TO BE TAKEN REMOVAL, CHANGE-IN-SERVICE, CLOSE IN PLACE
6	gasoline	15,000	yes	removal
7	diesel	15,000	yes	removal

ENTERED
APR 21 2019
BUREAU OF FIRE SERVICES

Comments:

Notification Submitted by (Print Name) Rich Williams,	Company Matzak Inc
Signature 	Date 4-17-20
	Area Code & Telephone Number (586) 749-5600

THIS IS NOT A REGISTRATION FORM. AN AMENDED TANK REGISTRATION FORM, BFS-3821, AND A COMPLETED SITE ASSESSMENT (Form BFS-3881) MUST BE FILED WITH THE BUREAU OF FIRE SERVICES, STORAGE TANK DIVISION, TO REMOVE THE LISTED TANKS FROM THE REGISTRATION CYCLE.

Bureau of Fire Services (BFS) Use Only

BFS APPROVAL NOTICE

Approval is given to perform the indicated activity at the above facility location. Action indicated above may commence on or after _____.

Expiration Date: _____ If action is not taken by the expiration date, you must submit another notification.

Authorizing Signature	Date
Mail to: LARA - BFS Storage Tank Division P.O. Box 30033 Lansing, MI 48909	Overnight Mail to LARA - BFS Storage Tank Division 3101 Technology Boulevard, Suite H Lansing, MI 48910
Date Confirmation Mailed to Owner	Entry Date

TANK INCLUDED IN INTENT OF REMOVAL, CLOSURE OR CHANGE-IN-SERVICE OF UNDERGROUND STORAGE TANKS

FOR INTENT OF CLOSURE NUMBER IRCC-000061-20

<u>TANK NUMBER</u>	<u>PRODUCT LAST STORED</u>	<u>SIZE OF TANK</u>	<u>PIPING TO BE REMOVED</u>	<u>ACTION TO BE TAKEN</u>
UTK-094982-15	Gasoline	15000	Yes	Remove from Ground
COMMENTS;				

FOR INTENT OF CLOSURE NUMBER IRCC-000061-20

<u>TANK NUMBER</u>	<u>PRODUCT LAST STORED</u>	<u>SIZE OF TANK</u>	<u>PIPING TO BE REMOVED</u>	<u>ACTION TO BE TAKEN</u>
UTK-094986-15	Diesel	15000	Yes	Remove from Ground
COMMENTS;				

PLEASE
SEND
REVIEW/PERMIT
TO →



www.matzakinc.com

Rich Williams
59187 North Ave
Ray, MI 48096
williams@matzakinc.com

Phone 586-749-5600
Fax 586-749-5621
Cell 586-634-9205

INTENT OF REMOVAL, CLOSURE OR CHANGE-IN-SERVICE OF UNDERGROUND STORAGE TANKS
This information is required pursuant to Part 211 Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended
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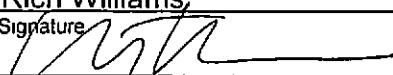
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HMSI:			IOC#		
Fee Balance:			FACILITY NUMBER (see Invoice) 00010237		
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<input type="checkbox"/> PLEASE CHECK IF NEW OWNER'S ADDRESS			<input type="checkbox"/> PLEASE CHECK IF SAME AS SECTION I		
NAME OF OWNER (CORPORATION, INDIVIDUAL, ETC) City of Ann Arbor			FACILITY NAME OR COMPANY SITE IDENTIFIER Fleet & Facilities Service Unit		
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CITY Ann Arbor	STATE MI	ZIP CODE 48104	CITY Ann Arbor	STATE MI	ZIP CODE 48104
COUNTY Washtenaw	TOWNSHIP		COUNTY Washtenaw	TOWNSHIP	
AREA CODE & TELEPHONE NUMBER (734) 794-6312			CONTACT PERSON FOR LOCATION Dennis L. Crum	AREA CODE & TELEPHONE NUMBER (734) 794-6390 x43505	

TANK INFORMATION				
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6	gasoline	15,000	yes	removal
7	diesel	15,000	yes	removal

ENTERED
APR 21 2019
BUREAU OF FIRE SERVICES

Comments

Notification Submitted by (Print Name) Rich Williams	Company Matzak Inc
Signature 	Date 4-17-20
	Area Code & Telephone Number (586) 749-5600

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Bureau of Fires Services (BFS) Use Only

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Mail to: LARA - BFS Storage Tank Division P O Box 30033 Lansing, MI 48909	Overnight Mail to LARA - BFS Storage Tank Division 3101 Technology Boulevard, Suite H Lansing, MI 48910
Date Confirmation Mailed to Owner	Entry Date

Elm *4-21-20 AS*

Steward, Jessica (LARA)

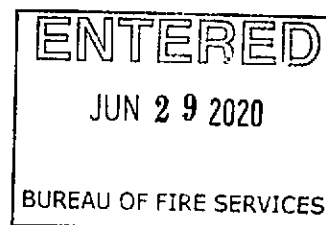
From: Cristine Litteral <clitteral@larsonco.com>
Sent: Friday, June 26, 2020 3:28 PM
To: Steward, Jessica (LARA)
Cc: Morne Van Vuren; James Hillman; Joseph Walukonis
Subject: EID 10237 - 2000 S. Industrial Highway (Ann Arbor)

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

Jessica - please cancel OW Larson as the A & B Operator for the above mentioned facility
Thank you

On Fri, Jun 26, 2020 at 1:24 PM Andrew Costa <acosta@larsonco.com> wrote:

I spoke to Lyn Crum here who informed me that they are currently in the process of removing both of their UST's and replacing them with AST's.



RECEIVED
 JUL 13 2020
 BUREAU OF FIRE SERVICES

Any

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division

REGISTRATION OF UNDERGROUND STORAGE TANKS

The information in this form is required under "Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended." Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties, not to exceed \$5,000 per day for each tank for which notification is not given or for which false information is submitted.

<input type="checkbox"/> NEW REGISTRATION <input checked="" type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)	If sending payment and form, mail to: Cashiers Office - UST, P.O. Box 30657, Lansing, MI 48909-8157	FACILITY ID NUMBER (if known) 00010237
	If sending payment and form OVERNIGHT: Revenue Control Unit, 525 West Allegan Street, Lansing, MI 48933	
	If sending the FORM ONLY, mail to: Department of Licensing and Regulatory Affairs, Bureau of Fire Services, AST/UST Tank Division, P.O. Box 30700, Lansing, Michigan 48909	

NUMBER OF TANKS AT FACILITY: _____ NUMBER OF CONTINUATION SHEETS ATTACHED _____

I. OWNERSHIP OF TANKS			II. LOCATION OF TANKS		
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>			IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>		
OWNER NAME (Corporation/Individual, etc.) City of Ann Arbor			FACILITY NAME OR SITE IDENTIFIER Utilities Dept./ Field Services		
MAILING ADDRESS 301 E. Huron St.			STREET ADDRESS (P.O. Box Not Acceptable) 2000 South Industrial Hwy		
CITY Ann Arbor	STATE MI	ZIP 48107	CITY Ann Arbor	STATE MI	ZIP 48104
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER _____			COUNTY Washtenaw		
AREA CODE & PHONE NUMBER (734) 794-6312			AREA CODE & PHONE NUMBER (734) 794-6390		
TAX PAYER ID OR SOCIAL SECURITY NUMBER [REDACTED]					

LATITUDE AND LONGITUDE of facility (if known)
 LATITUDE (North) _____ LONGITUDE (West) _____

III. TYPE OF OWNER

FEDERAL COMMERCIAL
 STATE GOVERNMENT PRIVATE
 LOCAL GOVERNMENT ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? YES NO
 IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? YES NO
 IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____

ENTERED
 JUL 15 2020
 BUREAU OF FIRE SERVICES

IV. TYPE OF FACILITY

<input type="checkbox"/> PUBLIC GAS STATION	<input checked="" type="checkbox"/> LOCAL GOVERNMENT	<input type="checkbox"/> CONTRACTOR
<input type="checkbox"/> PRIVATE GAS STATION	<input type="checkbox"/> STATE GOVERNMENT	<input type="checkbox"/> TRUCKING/TRANSPORT
<input type="checkbox"/> MARINE GAS STATION	<input type="checkbox"/> FEDERAL/NON-MILITARY	<input type="checkbox"/> UTILITIES
<input type="checkbox"/> PETROLEUM DISTRIBUTOR	<input type="checkbox"/> FEDERAL-MILITARY	<input type="checkbox"/> RESIDENTIAL
<input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> FARM
<input type="checkbox"/> AUTO DEALERSHIP	<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> OTHER (Explain) _____
<input type="checkbox"/> RAILROAD	<input type="checkbox"/> HOSPITAL	

V. CONTACT PERSON

Name Matthew J Kulhanek	Job Title Fleet & Facilities Manager	Area Code & Phone No 734/794-6312
Class A operator: Name	Company	Area Code & Phone No
Class B operator: Name	Company	Area Code & Phone No

VI. CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

NAME AND OFFICIAL TITLE OF OWNER OR OWNERS' AUTHORIZED REPRESENTATIVE Matthew J Kulhanek	SIGNATURE <i>Matthew J Kulhanek</i>	DATE 7/7/20
--	--	-----------------------

VII. DESCRIPTION OF UNDERGROUND STORAGE TANKS

(Complete the following pages for each tank at this location. Copy these pages for additional tanks if needed.)

TANK IDENTIFICATION NUMBER	6	7						
1 STATUS OF TANKS (Check One) CURRENTLY IN USE TEMPORARILY OUT OF USE AMENDMENT OF INFORMATION <i>(If tanks are removed/closed, complete Section VIII)</i>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. DATE OF INSTALLATION (Month/Day/Year)	unknown	unknown						
3. ESTIMATED TOTAL CAPACITY (Gallons)	15,000	15,000						

VIII. TANKS OUT-OF-USE OR CHANGE-IN-SERVICE (Skip this section if this does not apply and go to Section IX.)
NOTE. A SITE ASSESSMENT MUST BE COMPLETED UNLESS YOU REPORT A CONFIRMED RELEASE

1. CLOSING OF TANK	6/29/20	6/29/20						
A. ESTIMATED DATE LAST USED (Month/Day/Year)								
B. ESTIMATED DATE TANK WAS REMOVED/CLOSED-IN-PLACE or CHANGE-IN-SERVICE (Month/Day/Year)	6/29/20	6/29/20						
C. TANK WAS REMOVED FROM GROUND D. TANK FILLED WITH INERT MATERIAL (Sand, Concrete, etc) •DESCRIBE TYPE OF FILL USED •REASON TANK WAS NOT REMOVED (Specify in comments area)	<input checked="" type="checkbox"/> <input type="checkbox"/> _____ _____	<input checked="" type="checkbox"/> <input type="checkbox"/> _____ _____	<input type="checkbox"/> <input type="checkbox"/> _____ _____	<input type="checkbox"/> <input type="checkbox"/> _____ _____	<input type="checkbox"/> <input type="checkbox"/> _____ _____	<input type="checkbox"/> <input type="checkbox"/> _____ _____	<input type="checkbox"/> <input type="checkbox"/> _____ _____	<input type="checkbox"/> <input type="checkbox"/> _____ _____
2. CHANGE-IN-SERVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

IX. SUBSTANCE STORED

1 SUBSTANCE CURRENTLY OR LAST STORED IN GREATEST QUANTITY BY VOLUME								
GASOLINE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DIESEL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GASOHOL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
KEROSENE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Not For Consumptive Use On Premises) FUEL OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WASTE OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
USED OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HAZARDOUS SUBSTANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HEATING OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MIXTURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TANK HAS COMPARTMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (Specify in comments area) (List substances in comments area)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CERCLA NAME AND/OR CHEMICAL ABSTRACT SERVICE (CAS) NUMBER (if hazardous substance stored)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



STATE OF MICHIGAN

LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI, 48107

ATTENTION City of Ann Arbor

Location of Tanks:

Utilities Dept/Field Services
2000 INDUSTRIAL S
ANN ARBOR, MI, 48104-6120
County - WASHTENAW
Facility ID - 00010237

A(n) Existing Facility Inspection was conducted on Monday, June 29, 2020, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), the Michigan Underground Storage Tank Rules (MUSTR), 2008 AACS R 29.2101 et seq., and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACS R 29.5601 et seq. The inspection result is No Action Taken by Inspector.

Comments

On 06-29-20 2 tanks were removed by Matzak company, with ATC Environmental Services Inc. No later than 30 days after removal an amended registration(bfs-3821) must be submitted notifying that the tanks have been removed. No later than 45 days a site assessment(bfs-3881) must be submitted along with soil analysis.

The Inspection and violations (if any) were discussed with ATC Adam Wrubel 616-265-3005 Matzak 586-749-5600 at the time of the inspection.

If you have additional questions concerning this matter, please contact me.

Scott Elliott

06/29/2020

Date

Scott Elliott
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: 517-435-9938
Fax: (517) 332-1428
Email: ELLIOTTSS4@michigan.gov



STATE OF MICHIGAN

LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI, 48107

ATTENTION: City of Ann Arbor

Location of Tanks:

Utilities Dept/Field Services
2000 INDUSTRIAL S
ANN ARBOR, MI, 48104-6120
County - WASHTENAW
Facility ID - 00010237

A(n) Re-Inspection was conducted on Friday, January 24, 2020, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); the Michigan Underground Storage Tank Rules (MUSTR), 2008 AACR 29.2101 et seq., and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACR 29.5601 et seq. The inspection result is: Facility is Approved.

Comments:

The owner has corrected all the violations that were cited for the facility except for Tank UTK-094986-15 (Diesel) that was Red Tagged for failure to demonstrate spill prevention equipment and overfill prevention equipment. Should you wish to bring this Tank back in to service, please correct all violations and contact the department to schedule a re-inspection, prior to bringing this Tank back in to service.

The Inspection and violations (if any) were discussed with Lynn Crum at the time of the inspection.

If you have additional questions concerning this matter, please contact me.

Scott Elliott

01/24/2020

Date

Scott Elliott
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: 517-241-8847
Fax: (517) 332-1428
Email: ELLIOTTS4@michigan.gov



STATE OF MICHIGAN

LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI, 48107

Location of Tanks

Utilities Dept/Field Services
2000 INDUSTRIAL S
ANN ARBOR, MI, 48104-6120
County - WASHTENAW
Facility ID - 00010237

ATTENTION City of Ann Arbor

A(n) Records Investigation was conducted on Thursday, September 12, 2019, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), the Michigan Underground Storage Tank Rules (MUSTR), 2008 AACRS R 29 2101 et seq, and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACRS R 29 5601 et seq The inspection result is Facility Temporarily Approved

- 1 280 34 Documentation of compliance for spill prevention equipment Provide documentation demonstrating compliance with the testing requirements in 280 35 (1)(ii). Provide documentation of the testing results

Documentation shall be furnished to the office identified below verifying that the violation(s), cited in this inspection report have been corrected The documentation shall be provided by 11/12/2019. If the cited violation(s) are not corrected and/or certification of compliance is not provided by the date specified, a reinspection will be conducted The owner or operator of this facility will be subject to civil and criminal provisions pursuant to Part 211 of Act 451, including and not limited to placement of tags to the tank(s) prohibiting delivery of product if the stated violations have not been corrected

If you have additional questions concerning this matter, please contact me.

Scott Elliott

09/12/2019

Date

Scott Elliott
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone 5172418847
Fax (517) 332-1428
Email Elliotts4@michigan.gov



STATE OF MICHIGAN

LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address.

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI, 48107

Location of Tanks

Utilities Dept/Field Services
2000 INDUSTRIAL S
ANN ARBOR, MI, 48104-6120
County - WASHTENAW
Facility ID - 00010237

ATTENTION: City of Ann Arbor

A(n) Re-Inspection was conducted on Friday, July 12, 2019, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), the Michigan Underground Storage Tank Rules (MUSTR), 2008 AACS R 29.2101 et seq., and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACS R 29.5601 et seq. The inspection result is. Facility Temporarily Approved.

- 1 -Section 280 93 BFS CODE U92
Owners or operators must demonstrate proof of financial responsibility.
Please Provide Documentation Submit to this inspector a current Certificate of Insurance for all underground storage tanks (UST). Please be advised that if you fail to correct this violation by the compliance date specified in this report, the Storage Tank Division (STD) may red-tag your tank(s) to prevent delivery of product, and may take other enforcement actions.
- 2 -UST 280.10 (J) (FL/CL RULES) BFS CODE. U10
Miscellaneous violations.
Please Provide Documentation 280 40 (3) Annual Functionality testing A test of the proper operation shall be performed at least annually and, at a minimum, as applicable to the facility, cover the following components and criteria. (i) Automatic tank gauge and other controllers. test alarm; verify system configuration, and test battery backup. (ii) Probes and sensors: inspect for residual buildup; ensure floats move freely; ensure shaft is not damaged, ensure cables are free of kinks and breaks; and test alarm operability and communication with controller.
- 3 -UST 280.13(c)(iv) BFS CODE U130
Results of inspection by "B" operator for the presence of product, water, or debris in the spill containers and verifying the functional status of leak prevention equipment, such as spill and overfill
Remove all liquid from sumps.
- 4 -UST 280.43(G) BFS CODE U75
Interstitial monitoring shall utilize an approved testing method. (i.e., Vacuum or pressure on the interstice or a continuous monitoring method)
Your interstitial space in your diesel underground storage tank is showing water in it. Please submit documentation that this has been Corrected.
- 5 Please Provide Documentation R 29.2120 Testing UST 280.35 (Both) The spill prevention equipment shall be tested at least once every 3 years to ensure the equipment is liquid tight by using vacuum, pressure, or liquid testing. Also, overfill prevention equipment shall be inspected at least once every 3 years At a minimum, the inspection shall ensure that overfill prevention equipment is set to activate at the correct level. Provide documentation that the required testing has been performed within the last 3 years.

The Inspection and violations (if any) were discussed with Lynn Crum at the time of the inspection.

Documentation shall be furnished to the office identified below verifying that the violation(s), cited in this inspection report have been corrected. The documentation shall be provided by 09/12/2019. If the cited violation(s) are not corrected and/or certification of compliance is not provided by the date specified, a reinspection will be conducted. The owner or operator of this facility will be subject to civil and criminal provisions pursuant to Part 211 of Act 451, including and not limited to placement of tags to the tank(s) prohibiting delivery of product if the stated violations have not been corrected.

If you have additional questions concerning this matter, please contact me.

Scott Elliott

07/12/2019

Date

Scott Elliott
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: 5172418847
Fax: (517) 332-1428
Email: Elliotts4@michigan.gov

RECEIVED
JUL 31 2018
 BUREAU OF FIRE SERVICES

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division
REGISTRATION OF UNDERGROUND STORAGE TANKS

The information in this form is required under "Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended." Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5,000 per day for each tank for which notification is not given or for which false information is submitted.

<input type="checkbox"/> NEW REGISTRATION <input checked="" type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)	If sending payment and form, mail to: LARA, Cashiers Office UST/AST, P.O. Box 30033, Lansing, MI 48909	FACILITY ID NUMBER (if known) 00010237
	If sending payment and form OVERNIGHT: LARA, Cashiers Office UST/AST, 525 West Allegan, Lansing, MI 48909	
	If sending the FORM ONLY, mail to: LARA, Bureau of Fire Services, Storage Tank Division, P.O. Box 30033, Lansing, MI 48909	

NUMBER OF TANKS AT FACILITY: 2 NUMBER OF CONTINUATION SHEETS ATTACHED: 1

I. OWNERSHIP OF TANKS			II. LOCATION OF TANKS		
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>			IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>		
OWNER NAME (Corporation/Individual, etc.) <u>City of Ann Arbor</u>			FACILITY NAME OR SITE IDENTIFIER <u>Utilities Dept / Field Service</u>		
MAILING ADDRESS <u>P.O. Box 8647 100 N. 5th Ave</u>			STREET ADDRESS (P.O. Box Not Acceptable) <u>2000 S. Industrial Hwy</u>		
CITY <u>Ann Arbor</u>	STATE <u>MI</u>	ZIP <u>48107</u>	CITY <u>Ann Arbor</u>	STATE <u>MI</u>	ZIP <u>48104</u>
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER _____			COUNTRY		
AREA CODE & PHONE NUMBER ()			AREA CODE & PHONE NUMBER ()		
LATITUDE AND LONGITUDE of facility (if known)					
LATITUDE (North):			LONGITUDE (West):		

ENTERED
JUL 31 2018
 BUREAU OF FIRE SERVICES

III. TYPE OF OWNER

FEDERAL COMMERCIAL
 STATE GOVERNMENT PRIVATE
 LOCAL GOVERNMENT ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? YES NO
 IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? YES NO
 IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____

IV. TYPE OF FACILITY

<input type="checkbox"/> PUBLIC GAS STATION	<input checked="" type="checkbox"/> LOCAL GOVERNMENT	<input type="checkbox"/> CONTRACTOR
<input type="checkbox"/> PRIVATE GAS STATION	<input type="checkbox"/> STATE GOVERNMENT	<input type="checkbox"/> TRUCKING/TRANSPORT
<input type="checkbox"/> MARINE GAS STATION	<input type="checkbox"/> FEDERAL/NON-MILITARY	<input type="checkbox"/> UTILITIES
<input type="checkbox"/> PETROLEUM DISTRIBUTOR	<input type="checkbox"/> FEDERAL-MILITARY	<input type="checkbox"/> RESIDENTIAL
<input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> FARM
<input type="checkbox"/> AUTO DEALERSHIP	<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> OTHER (Explain) _____
<input type="checkbox"/> RAILROAD	<input type="checkbox"/> HOSPITAL	

V. CONTACT PERSON

Name <u>DENNIS L. CRUM</u>	Job Title <u>FACILITIES Supv.</u>	Area Code & Phone No. <u>734-323-4158</u>
Class A operator: Name <u>Morne Jansen Van Vuren</u>	Company <u>D.W. Larson</u>	Area Code & Phone No. <u>248-549-3610</u>
Class B operator: Name <u>Nathan Middleton</u>	Company <u>D.W. Larson</u>	Area Code & Phone No. <u>248-549-3610</u>

VI. CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

NAME AND OFFICIAL TITLE OF OWNER OR OWNERS' AUTHORIZED REPRESENTATIVE <u>DENNIS L. CRUM (FACILITIES SUPV.)</u>	SIGNATURE <u>Dennis L. Crum</u>	DATE <u>7/26/18</u>
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COMMENTS AND/OR CLARIFICATIONS:

Amended for name change of B Operator only



STATE OF MICHIGAN

LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI, 48107

Location of Tanks:

Utilities Dept/Field Services
2000 INDUSTRIAL S
ANN ARBOR, MI, 48104-6120
County - WASHTENAW
Facility ID - 00010237

ATTENTION: City of Ann Arbor

A(n) Existing Facility Inspection was conducted on Tuesday, May 1, 2018, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); the Michigan Underground Storage Tank Rules (MUSTR), 2008 AACR 29 2101 et seq., and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACR 29 5601 et seq. The inspection result is: Facility Temporarily Approved.

1 280.20(d)(12) BFS CODE: U131

Shall not install or replace a motor fuel dispenser system without "Under-dispenser containment (UDC)" (a) Be liquid-tight on all sides, and any penetrations (b) compatible with substance (c) Allow for inspection and access to the components and/or be monitored (d) Prevent the intrusion of water

Note: All tank and dispenser sumps have water in them. Remove all liquid from these sumps and make sure this maintenance is kept up on a regular basis.

2 UST 280.13(c)(iv) BFS CODE. U130

Results of inspection by "B" operator for the presence of product, water, or debris in the spill containers and verifying the functional status of leak prevention equipment, such as spill and overflow.

Note: Water in sumps. Establish a monitoring and removal plan. Remove all water on or before the compliance date

3 UST 280.43(G) BFS CODE. U75

Interstitial monitoring shall utilize an approved testing method (i.e., Vacuum or pressure on the interstice or a continuous monitoring method).

Note: Your interstitial space in your Diesel UST (Underground Storage Tank) is showing water in it. Get with your service provider (O W Larson Company) and determine what the issue is, and correct. Submit all documents and work orders to this Inspector via e-mail (Conkline2@michigan.gov), by the compliance date

The inspection and violations (if any) were discussed with D. L. Crum, Facility Manager at the time of the inspection

Documentation shall be furnished to the office identified below verifying that the violation(s), cited in this inspection report have been corrected. The documentation shall be provided by 07/17/2018. If the cited violation(s) are not corrected and/or certification of compliance is not provided by the date specified, a reinspection will be conducted. The owner or operator of this facility will be subject to civil and criminal provisions pursuant to Part 211 of Act 451, including and not limited to placement of tags to the tank(s) prohibiting delivery of product if the stated violations have not been corrected

If you have additional questions concerning this matter, please contact me

Christopher C Conklin

5/17/2018

Date

Christopher C Conklin
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: 586-289-0814
Fax: (517) 332-1428
Email conklinc2@michigan.gov



STATE OF MICHIGAN
LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Location of Tanks:

Utilities Dept/Field Services
2000 S Industrial Hwy
Ann Arbor, MI 48104-6120
County - Washtenaw
Facility ID - 00010237

ATTENTION: Lynn Crum (Facility Manager)

A Reinspection was conducted on January 7, 2016, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); the Michigan Underground Storage Tank Rules (MUSTR), 2008 AACS R 29.2101 et seq.; and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACS R 29.5601 et seq. The inspection showed that the facility is temporarily approved.

- 1 Every facility having 1 or more UST systems subject to MUSTR shall have a class A and class B operator.
UST 280.13

Special Attention : State of Michigan (SID) database shown "NO" Class A/B Operator program in place. This program must be active and an Inspection must be performed by the Class B Operator.

Note: During the Inspection process, the Facility Manager Lynn Crum, stated that he was in the final phase of hiring the O. W. Larson Company as the Class A/B Operator. He understands to contact the Inspector when the program is in place.

- 2 Owners or operators of petroleum USTs must demonstrate proof of financial responsibility.
Section 280.93

Special Attention : Please submit to this office a "current" Certificate of Insurance for your (2) Underground Storage Tanks by the compliance date. This can be done by E-Mail (Conklinc2@michigan.gov.)

In contact with Facility Supervisor Lynn Crum this date. If all violations are not addressed by 01/18/16, this facility will be RED-TAGGED.

The inspection and violations (if any) were discussed with Lynn Crum (Facility Manager) (734-323-4158) at the time of the inspection.

Documentation shall be furnished to the district office identified below verifying that the violation(s), cited in this inspection report have been corrected. The documentation shall be provided by January 18, 2016. If the cited violation(s) are not corrected and/or certification of compliance is not provided by the date specified, a reinspection will be conducted. The owner or operator of this facility will be subject to civil and criminal provisions pursuant to Part 211 of Act 451, including and not limited to placement of tags to the tank(s) prohibiting delivery of product if the stated violations have not been corrected.

If you have additional questions concerning this matter, please contact me.

Christopher C. Conklin

01/07/16

Christopher C. Conklin
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: (586) 289-0814
Fax: (517) 332-1428
Email: conklinc2@michigan.gov

Date

B

ENTERED

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division

REGISTRATION OF UNDERGROUND STORAGE TANKS

MAR 03 2016

The information in this form is required under "Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended." Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5,000 per day for each tank for which notification is not given or for which false information is submitted.

<input type="checkbox"/> NEW REGISTRATION <input checked="" type="checkbox"/> AMENDED INFORMATION (for Registered USTs Only)	If sending payment and form, mail to: LARA, Cashiers Office UST/AST, P.O. Box 30033, Lansing, MI 48909	FACILITY ID NUMBER (if known) 60010237
	If sending payment and form OVERNIGHT: LARA, Cashiers Office UST/AST, 525 West Allegan, Lansing, MI 48909	
	If sending the FORM ONLY, mail to: LARA, Bureau of Fire Services, Storage Tank Division, P.O. Box 30033, Lansing, MI 48909	

NUMBER OF TANKS AT FACILITY: 2 NUMBER OF CONTINUATION SHEETS ATTACHED: 1

I. OWNERSHIP OF TANKS			II. LOCATION OF TANKS		
IF THIS IS A NEW OWNER'S ADDRESS, PLEASE CHECK <input type="checkbox"/>			IF INFORMATION IS THE SAME AS SECTION I, PLEASE CHECK <input type="checkbox"/>		
OWNER NAME (Corporation/Individual, etc.) <u>City of Ann Arbor</u>			FACILITY NAME OR SITE IDENTIFIER <u>Utilities Dept / Field Service</u>		
MAILING ADDRESS <u>P.O. Box 8647 100 N. 5th Ave</u>			STREET ADDRESS (P.O. Box Not Acceptable) <u>2000 S. Industrial Hwy</u>		
CITY <u>Ann Arbor</u>	STATE <u>MI</u>	ZIP <u>48107</u>	CITY <u>Ann Arbor</u>	STATE <u>MI</u>	ZIP <u>48104</u>
COUNTRY (Please Specify) <input checked="" type="checkbox"/> USA <input type="checkbox"/> OTHER _____			COUNTY		
AREA CODE & PHONE NUMBER ()			AREA CODE & PHONE NUMBER ()		

LATITUDE AND LONGITUDE of facility (if known)
 LATITUDE (North): _____ LONGITUDE (West): _____

III. TYPE OF OWNER	
<input type="checkbox"/> FEDERAL <input type="checkbox"/> STATE GOVERNMENT <input checked="" type="checkbox"/> LOCAL GOVERNMENT	<input type="checkbox"/> COMMERCIAL <input type="checkbox"/> PRIVATE ARE TANKS LOCATED ON LAND WITHIN A RESERVATION? <input type="checkbox"/> YES <input type="checkbox"/> NO IF TANKS ARE LOCATED WITHIN A RESERVATION, DOES A NATIVE AMERICAN TRIBE OWN TANKS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF TANKS ARE OWNED BY A TRIBE, NAME OF TRIBE: _____

RECEIVED
 JAN 26 2016
 BUREAU OF FIRE SERVICES

IV. TYPE OF FACILITY		
<input type="checkbox"/> PUBLIC GAS STATION <input type="checkbox"/> PRIVATE GAS STATION <input type="checkbox"/> MARINE GAS STATION <input type="checkbox"/> PETROLEUM DISTRIBUTOR <input type="checkbox"/> AIRLINE AND/OR AIRCRAFT OWNER <input type="checkbox"/> AUTO DEALERSHIP <input type="checkbox"/> RAILROAD	<input checked="" type="checkbox"/> LOCAL GOVERNMENT <input type="checkbox"/> STATE GOVERNMENT <input type="checkbox"/> FEDERAL/NON-MILITARY <input type="checkbox"/> FEDERAL-MILITARY <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> HOSPITAL	<input type="checkbox"/> CONTRACTOR <input type="checkbox"/> TRUCKING/TRANSPORT <input type="checkbox"/> UTILITIES <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> FARM <input type="checkbox"/> OTHER (Explain) _____

V. CONTACT PERSON		
Name <u>DENNIS L. CRUM</u>	Job Title <u>FACILITIES Supv.</u>	Area Code & Phone No. <u>734-323-4158</u>
Class A operator: Name <u>Morne Jansen Van Vuren</u>	Company <u>O.W. Larson</u>	Area Code & Phone No. <u>248-549-3610</u>
Class B operator: Name <u>Raymond Dawe</u>	Company <u>O.W. Larson</u>	Area Code & Phone No. <u>248-549-3610</u>

VI. CERTIFICATION		
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS FORM AND ALL ATTACHED DOCUMENTS AND THAT I HAVE VERIFIED THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.		
NAME AND OFFICIAL TITLE OF OWNER OR OWNERS' AUTHORIZED REPRESENTATIVE <u>DENNIS L. CRUM (FACILITIES Supv.)</u>	SIGNATURE <u>Dennis L. Crum</u>	DATE <u>1/15/16</u>

COMMENTS AND/OR CLARIFICATIONS:

amended for purpose of A & B Operator designation only.. no other changes have been made

RETAIN THIS IMAGE
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STATE OF MICHIGAN
LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION
FACILITY INSPECTION REPORT

Owner Name & Address.

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Location of Tanks:

Utilities Dept/Field Services
2000 S Industrial Hwy
Ann Arbor, MI 48104-6120
County - Washtenaw
Facility ID - 00010237

ATTENTION: Lynn Crum (Facility Manager)

An Existing Facility Inspection was conducted on October 26, 2015, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); the Michigan Underground Storage Tank Rules (MUSTR), 2008 AACS R 29.2101 et seq.; and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACS R 29.5601 et seq. The inspection showed that the facility is temporarily approved.

- 1 Every facility having 1 or more UST systems subject to MUSTR shall have a class A and class B operator.
UST 280.13

Special Attention : State of Michigan (SID) database shown "NO" Class A/B Operator program in place. This program must be active and an Inspection must be performed by the Class B Operator.

Note: During the Inspection process, the Facility Manager Lynn Crum, stated that he was in the final phase of hiring the O. W. Larson Company as the Class A/B Operator. He understand to contact the Inspector when the program is in place.

- 2 Owners or operators of petroleum USTs must demonstrate proof of financial responsibility.
Section 280.93

Special Attention : Please submit to this office a "current" Certificate of Insurance for your (2) Underground Storage Tanks by the compliance date. This can be done by E-Mail (Conkline2@michigan.gov.)

The inspection and violations (if any) were discussed with Lynn Crum (Facility Manager) (734-323-4158) at the time of the inspection.

Documentation shall be furnished to the district office identified below verifying that the violation(s), cited in this inspection report have been corrected. The documentation shall be provided by December 26, 2015. If the cited violation(s) are not corrected and/or certification of compliance is not provided by the date specified, a reinspection will be conducted. The owner or operator of this facility will be subject to civil and criminal provisions pursuant to Part 211 of Act 451, including and not limited to placement of tags to the tank(s) prohibiting delivery of product if the stated violations have not been corrected.

If you have additional questions concerning this matter, please contact me.

Christopher C. Conklin

10/26/15

Christopher C. Conklin
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: (586) 289-0814
Fax: (517) 332-1428
Email: conklinc2@michigan.gov

Date

B

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division
P.O. Box 30033, Lansing, MI 48909
AUTOMOTIVE SERVICE STATION CHECKLIST

INSTRUCTIONS: The Hazardous Materials Storage Inspector shall complete this checklist and attach it to an inspection report, one to be retained in the District file and one for the Main Office file. All boxes shall be completed inserting N/A where non-applicable.		
FACILITY NAME UTILITIES DEPT./FIELD SERVICES - 200 INDUSTRIAL PRKWAY, ANN ARBOR, MI		FACILITY ID NUMBER 00010237
CONTACT PERSON ON SITE LYNN CRUM	Area Code & Telephone Number 734-323-4158	FACILITY TYPE Public <input type="checkbox"/> COUNTY MAINT. FAC. Private <input type="checkbox"/>
EMAIL ADDRESS OF RESPONSIBLE PERSON dlcrum@a2gov.org		

SECTION		CODE	VIO	PASS	SECTION		CODE	VIO	PASS
6 7	Emergency power disconnect	S93		X	280 22h	Display proof of registration	S63		X
9 2.5.2	Fire extinguisher, 100 feet	S59		X	280 22a	Registration submitted 30 days	S62		X
9.4.5	Dispenser in view and communicate	S92	N/A		280.22a	Property registered & fees paid	S61		X
280 93	Financial Responsibility NEED	U92	X		6 2.1	Electric certification	U70	N/A	
						Miscellaneous violation	S50		

NEED A/B - O.W.LARSON IS PENDING

SECTION	DESCRIPTION	CODE	VIO	PASS
280 13	Have Certified A - B operator	U103		X
280 13a	Registration submitted for A-B	U106		
280.13b	New owners cert. 30 days of purchase	U114		
280 13b	Must have Class B before operating	U114		

CLASS C OPERATOR SECTION

SECTION	DESCRIPTION	CODE	VIO	PASS
280.13d	Class C operator present	U107		
280.13d	Class C trained for conditions	U119		
280.13b	List of all Class C trained Emp.	U112		
280.13c	Quarterly Inspections performed	U104		
280 13c	Insp. Report Signed by B Operator	U105		

RECORDS

SECTION	DESCRIPTION	CODE	VIO	PASS
280.34	Maintenance records	S65		
280 44a	Line leak detector tested	U95		X
280.41b	Line tightness test -- pressure	U88		X
280 41b	Line test - suction every 3 years	U89	N/A	
6 3 9 1.	Emergency valve tested	S94		
280.34	General record keeping violation	S60		

SECTION	DESCRIPTION	CODE	VIO	PASS
280 34	Release detection records	S67		X
280 31b	C/P tested 6 months & 3 years	U30	N/A	
280.31c	Impressed current, 60 day log	S35	N/A	
280 34	Cathodic protection records*	S64	N/A	

*NOTE- Includes CP upgrade testing results

FIBERGLASS !!!

RELEASE DETECTION

SECTION	DESCRIPTION	CODE	VIO	PASS
280.40	Release detection for tanks	U71		X
280.43a	Inventory control (not stand alone)	S42		X
280.43b	Manual gauging (less than 550)	S43	N/A	
280.43c	Tank tightness testing	S44		X
280.43d	Automatic tank gauging	U72		X

SECTION	DESCRIPTION	CODE	VIO	PASS
280 43e	Vapor monitoring (approval req.)	U73	N/A	
280 43f	Groundwater monitoring	U74		
280 43g	Interstitial monitoring (stand alone)	U75		X
280.43h	S I R (stand alone)	U93	N/A	
280.43h	Other	S49		

DIESEL IS SUCTION....
UNLEAD IS PRESSURE....

COMMENTS _____

NOTE: O.W.LARSON COMPANY IS INSTALLING NEW TLS-450 UNIT.

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division
P.O. Box 30033, Lansing, MI 48909
AUTOMOTIVE SERVICE STATION CHECKLIST

SECTION		CODE	VIO	PASS
6.1	Dispenser violation	S10		X
6.2.3	Dispenser location (10 feet)	S11		X
6.3.4	Dispenser protected, damage/secured	S13		X
9.2.5.4	No smoking, stop motor, unapproved cont., Remain out of vehicle in view	S22		X
6.6.6	Splash guard on nozzle	S91		XX
6.5.1	Dispenser Hose 18 feet or less	S14		X
6.3.3	Pump only operate with handle remove/manually actuated.	S12		X

SECTION		CODE	VIO	PASS
6.5.2.	Breakaway on hose / date current	S15		X
6.3.4.1.	Containment under dispenser	S17		X
6.3.9	Emergency valve installed	S18		X
6.6.1.	Automatic self-closing nozzle / date current	S19		X
9.4.4.	Operating instructions posted	S25		X
6.3.5.	Class I Disp. 20 feet from fuel oil	S16		
6.2.1	All vehicles fueling are on premises of dispensing facility. NO	S20		N/A

UNDERGROUND TANK SECTION				
SECTION		CODE	VIO	PASS
280.20	Tank miscellaneous violation	S30		
280.20c	Spill containment - Testing request	U51		X
280.20c	Spill containment - Inoperative	U101		X
2.3.3.4.3	Tight fitting hose connection (1,000 & up)	U44		X
280.20c	Overfill prevention - Testing request	U52		X
280.20C	Overfill prevention - Inoperative	U102		X

2.3.3.4.	Location of fill pipe & identified	U46		XX
3.7.2.1.	Vent pipes, 12 feet Class I liquid	U32		X
3.7.2.4.	Vent pipes, Class II & IIIA	U33		
2.3.3.4.	Drop tube: 6 inches of tank bottom	U45		X
2.2.3.1	Tanks proper design & construction	U12		X
280.20	Cathodic protection for tanks FIBERGLASS	U29		

PIPING SECTION				
SECTION		CODE	VIO	PASS
280.40	Release detection for piping	U71		X
280.44a	Line leak detector installed	U76		X
280.20	Cathodic protection for piping FIBERGLASS	U29		

280.44c	Interstitial (monthly) monitoring	U94		N/A
3.2.2	Pipe leaks	U62		
280.20b	Piping shall be approved material	U61		

Tank Construction F/GLASS Piping Material F/GLASS Has GPS readings been taken _____

Piping; Suction X Pressure X Sump Sensors: Yes _____ No X Tank Monitor Model TLS-350

COMMENTS NEED FR.. NEED CLASS A/B TEMP APPR.

INSPECTOR Christopher C. Conklin DATE 10/26/15

CHRISTOPHER C. CONKLIN, HMSI-11



HQ

STATE OF MICHIGAN
LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION
FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Location of Tanks:

Utilities Dept./Field Services
2000 S Industrial Hwy
Ann Arbor, MI 48104-6120
County - Washtenaw
Facility ID - 00010237

ATTENTION: D.L.

An Existing Facility Inspection was conducted on March 26, 2013, for the above-referenced facility for compliance with Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); the Michigan Underground Storage Tank Rules (MUSTR), 2008 AACR 29.2101 et seq.; and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2003 AACR 29.5101 et seq. The inspection showed that the facility is approved.

Have your leak detectors tested annually; and on this site you must test the gas pipeline annually also as the interstice is not able to be kept dry.

Keep all testing records for at least 5 years.

If you have additional questions concerning this matter, please contact me.

Craig Galbreath
Hazardous Materials Storage Inspector
Jackson District Office
301 E Louis B Glick Highway
Jackson, MI 49201-1556
Phone: (517) 780-7497
Fax: (517) 780-7855
Email: galbreathc@michigan.gov

3-27-13

Date



STATE OF MICHIGAN

LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI, 48107

ATTENTION: City of Ann Arbor

Location of Tanks:

South Industrial Facility
2000 INDUSTRIAL S
ANN ARBOR, MI, 48104-6120
County - WASHTENAW
Facility ID - 91084983

A(n) Final Installation Inspection was conducted on Monday, September 14, 2020, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACS R 29.5601 et seq. The inspection result is: Facility is Certified.

The Inspection and violations (if any) were discussed with Lyn Crum city of Ann Arbor at the time of the inspection.

If you have additional questions concerning this matter, please contact me.

Scott Elliott

09/14/2020

Date

Scott Elliott
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: 517-435-9938
Fax: (517) 332-1428
Email: ELLIOTTS4@michigan.gov



STATE OF MICHIGAN

LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI, 48107

Location of Tanks:

South Industrial Facility
2000 INDUSTRIAL S
ANN ARBOR, MI, 48104-6120
County - WASHTENAW
Facility ID - 91084983

ATTENTION: City of Ann Arbor

A(n) Tank Installation Inspection was conducted on Monday, August 17, 2020, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACR 29.5601 et seq. The inspection result is: No Action Taken By Inspector.

Comments:

One 8000 gallon Fireguard above ground tank installed by MaTak for the city of Ann Arbor.

The Inspection and violations (if any) were discussed with Lynn Crum at the time of the inspection.

If you have additional questions concerning this matter, please contact me.

Scott Elliott

08/17/2020

Date

Scott Elliott
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: 517-435-9938
Fax: (517) 332-1428
Email: ELLIOTTS4@michigan.gov

5.7.20
(AS)

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS – BUREAU OF FIRE SERVICES – STORAGE TANK DIVISION

PLAN REVIEW REPORT

This information is required under Act 207 of the Public Acts of 1941, as amended, being Section 29.5c of the Michigan Compiled Laws Annotated. Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5000 per day for each tank which notification is not given or for which false information is submitted.

FINAL Status: Plan Approved	DATE 4/30/2020	FACILITY NUMBER 91084983	REFERENCE# PR-0083-20
Installation of FL/CL Storage Tank Application		TANK NUMBERS 2	
SUBMITTER Rich Williams Matzak 59187 North Avenue Ray, MI, 48096		PROJECT: South Industrial Facility ADDRESS: 2000 S INDUSTRIAL HWY ANN ARBOR MI 48104-6120 COUNTY: WASHITENAW	
The plans and specifications for the above project have been reviewed for compliance with applicable rules. Field inspection approval will be required before placing the system into operation.			

Hazardous Materials Storage Inspector Sott Elliott of the Department of Licensing and Regulatory Affairs, Fire Service Bureau, Storage Tank Division, telephone number 517-241-8847, may be contacted to schedule a site inspection.

This installation may not be placed into service until Department of Licensing and Regulatory Affairs personnel have conducted a final inspection. Preliminary inspections can be valuable in identifying and addressing site constraints and considerations prior to installation of the storage tank system.

Provide certification of compliance with the National Electrical Code at final inspection.

If this system is not installed within one year, please contact this office for possible resubmittal of plans.

This review is based upon submitted information, and is not considered a permit. Approval of a tank installation plan by the Department of Licensing and Regulatory Affairs, does not relieve an owner or installer from having to meet the requirements of other state and local government laws, including zoning laws. The Hazardous Materials Storage Inspector may find additional deficiencies during site inspections.

If you have any questions concerning this matter, please contact the Storage Tank Division at (517) 241-8847.

R. Jeff Tanner 4-30-20

Jeff Tanner,
Engineer
Storage Tank Division

Cc: Sott Elliott

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division
P.O. Box 30033, Lansing, MI 48909

APPLICATION FOR INSTALLATION OF ABOVEGROUND STORAGE TANKS

This information is required under Act 207 of the Public Acts of 1941, as amended, being Section 29.5c of the Michigan Compiled Laws Annotated. Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$200 per violation

INSTRUCTIONS: The Item numbers are referenced in the attached typical installation of an Aboveground Storage Tank. The system must be in compliance with the Storage and Handling of Flammable and Combustible Liquids (FL/CL) Rules, 2014 AACRS R 29.5601 et seq. The manufacturer and part number must be indicated next to the appropriate item. For installations involving container and portable tank storage, please see Part 2, Chapter 9 through 19 of the FL/CL Rules for additional requirements. For bulk plants, industrial plants, chemical plants, processing plants, refineries and distilleries, please refer to Part 2, Chapter 21 thru 29 of the FL/CL Rules for additional requirements. For emergency generator tanks please see Part 5 of the FL/CL Rules for additional requirements, and complete Section III of this form. Please direct any questions to the Bureau of Fire Services, Storage Tank Division, at 517-241-8847. For detailed instructions, see Page 6.

FACILITY NAME Fleet & Facilities Service Unit	NEW ASSIGNED TANK NUMBER(S) 2	FACILITY ID NUMBER
FACILITY STREET ADDRESS (PO BOX NOT ACCEPTABLE) 2000 South Industrial Hwy	CONTACT PERSON (AT LOCATION) Dennis L. Crum,	AREA CODE & TELEPHONE NUMBER (734) 794-6390 ext 43505
CITY Ann Arbor	COUNTY Washtenaw	STATE MI
		ZIP CODE 48104
OWNER NAME City of Ann Arbor	OWNER ADDRESS 301 E. Huron St	AREA CODE & TELEPHONE NUMBER (734) 794-6312
CITY Ann Arbor	STATE MI	ZIP CODE 48104
SUBMITTER'S NAME Rich Williams / Matzak Inc.	STREET ADDRESS 59187 North Ave	AREA CODE & TELEPHONE NUMBER (586) 749-5600
CITY Ray	STATE MI	ZIP CODE 48096

SECTION I The following section applies to aboveground tank installations, Part 2 of the FL/CL Rules.

ITEM	DESCRIPTION	MANUFACTURER & PART NO.	ITEM	DESCRIPTION	MANUFACTURER & PART NO.
1.	TANK LOCATION: Section 22.4.1: To important buildings, property lines which may be built upon. Adjacent container: minimum three feet, 20 feet from LPG tank.	tank is located minimum away from property lines and buildings - refer to site plan	5.	TANK SUPPORTS/ FOUNDATIONS: Section 22.5.1 & 22.5.2: rest on ground, concrete, masonry, piling, or steel. Areas subject to buoyant forces; each tank shall be safeguarded against movement by anchoring or other secure means.	tank is on concrete slab and will be anchored
2.	SECONDARY CONTAINMENT: Section 22.11.: Diking/remole impoundment and alternative methods. Section 4.3.3 of Part 3: Vaults and special enclosures. Liquid-tight, non-combustible (walls and floors). Capacity: 100% largest tank plus volume occupied by other tanks to top of dike wall.	tank is double-wall UL2085	6.	SPACING BETWEEN TANKS: Section 22.4.2. & Table 22.4.2.1: Class I, II, IIIA minimum 3 feet from dike wall to LPG tank. Minimum 20 feet between FL/CL tank and LPG tank.	tank is more than 5' from existing AST on site
3.	TANK DESIGN/ CONSTRUCTION: Section 21.4.2: No open tanks for liquid storage. UL142, API 650, and ASME standards.	tank is closed	7.	PIPING MATERIAL: Section 27.3: Liquid-tight, steel, nodular iron. Section 27.6.4: protected against corrosion. Section 27.7: pipe testing. Section 5.2.4 of Part 3: pipe in building.	pipng is liquid tight schedule 40 steel coated with epoxy for corrosion protection
4.	CORROSION PROTECTION: Section 21.4.5 & 22.5.2.2: Minimize corrosion for any part of tank in contact with foundation.	tank is elevated from pad with legs and steel support	8.	PIPE SUPPORTS: Section 27.6.2: Constructed of non-combustible material.	pipe supports are galvanized steel

ENTERED
APR 21 2019
BFS-3859 (Rev 2/18)
BUREAU OF FIRE SERVICES

APPLICATION FOR INSTALLATION OF ABOVEGROUND STORAGE TANKS

(Continued from Page 1)

ITEM	DESCRIPTION	MANUFACTURER & PART NO.	ITEM	DESCRIPTION	MANUFACTURER & PART NO.
9.	TANK VALVES (LINES ATTACHED): Section 22.13.1: each connection thru which liquid can normally flow shall be provided with an internal or external valve located as close as possible to the shell of the tank. 22.11.4.3 Secondary containment tanks require anti siphon valves	Morrison anti-siphon solenoid valve - NC	15.	OVERFILL PROTECTION: Section 22.7.1: Required on tanks over 1320 gallons capacity, approved method for the prevention of overfilling of tanks. 21.11.4.5 Secondary containment tanks require both an alarm and a shutoff valve.	Morrison overfill prevention valve and Morrison clock gauge with alarm
10.	EMERGENCY VENTS: Section 22.7.: Calculated on basis of CFH multiplied by the amount of square feet of wetted area. Must be normally closed for flammable liquids.	Morrison emergency vents on primary tank and secondary tank	16.	PRODUCT FLOW PROTECTION: Section 27.6.6.3: Back flow protection – check valve. Additional valves may be required to insure proper product flow in the piping system.	n/a - submersible pump
11.	NORMAL VENTS: Section 21.4.3.: Relieve excessive internal pressure. Require P/V vent for class I liquids	Morrison pressure / vacuum vent	17.	PRODUCT ID OR RISER: Section 27.10: Identified by color code or marking.	identified gasoline
12.	PIPE VALVES: Section 27.6.8: Shall be provided such to isolate equipment in the event of an emergency.	n/a - self contained piping and ancillary equipment; NFPA approved	18.	UNLOADING/ LOADING RISER LOCATION: Section 28.4.1: Separated from property lines, AST's, and buildings a minimum: 25 feet Class I liquid, 15 feet Class II and III liquids.	Simplex remote spill container
13.	COLLISION PROTECTION: Section 22.15.: Shall be provided for tanks exposed to vehicular traffic.	bollards protecting front of tank, block wall protecting sides and ends of tank	19.	SPILL PROTECTION - LOADING/UNLOADING POINTS: Section 28.9: Provided with means to contain spills Section 4.3.2.6 Part 3: Tank fill connections shall be provided with a non combustible spill containment device	Simplex remote spill container
14.	FIRE PROTECTION AND IDENTIFICATION: Section 21.6 & 21.7.2: Labeled "Flammable Liquid," "Combustible Liquid," or according to NFPA 704.	NFPA labeling on tank	20.	TANK BUILDINGS & CANOPIES: Section 28.5 & Chapter 24:	n/a - no tank canopy

APPLICATION FOR INSTALLATION OF ABOVEGROUND STORAGE TANKS

(Continued from Page 2)

SECTION II The following section applies to aboveground motor vehicle fueling and marina operations, Part 3 of the FL/CL Rules. The requirements of Part 2 of the FL/CL Rules must also be met. Inventory records shall be kept for all Class I, Class II, and Class IIIA storage.

ITEM	DESCRIPTION	MANUFACTURER & PART NO.	ITEM	DESCRIPTION	MANUFACTURER & PART NO.
1.	TYPE OF SERVICE STATION: Attended qualified supervisor. Unattended self-service. Inside building. Marine service station.	unattended self-serve facility	7.	DISPENSING HOSE: Section 6.5.: Listed hose assembly not to exceed 18 feet.	hose will not exceed 18'
2.	LOCATION OF DISPENSER: Section 6.2.1: Minimum 10 feet from property lines, combustible building walls, and building openings. Within 100 feet of emergency shutoff switch. Section 9.4.2: In clear view of attendant.	minimum 25' from property lines and 15' from combustible buildings and within 100' of emergency stop button	8.	EMERGENCY BREAKAWAY DEVICE: Section 6.5.2: Installed on each hose that dispenses a liquid into motor vehicles. Designed to retain liquid on both sides of the breakaway point.	breakaways will be installed on each hose
3.	DISPENSING DEVICE: Section 6.3.2: Must be listed and identified as to product it dispenses. Section 6.3.3: Equipped to allow control of flow. Section 6.3.4: Mounted on concrete island and protected from collision.	Gasboy fuel dispenser on steel box protected by bollards	9.	ANTI-SIPHON DEVICE: Section 4.2.4 & 4.3.8.4: Normally closed solenoid valve for elevated tanks.	Morrison anti-siphon solenoid valve - NC
4.	PUMP & PUMP LEAK DETECTION DEVICE: Section 6.4.1 & 6.4.2: Pump shall be listed. Each pump shall have installed on the discharge side a listed leak detection device(not required if piping is visible)	n/a - piping is visible	10.	FIRE EXTINGUISHER & EMERGENCY DSCONNECT: Section 9.2.5.2: Fire extinguishers shall be provided in compliance with NFPA 10 based on the hazard category for the system and site. Section 6.7: clearly identified ESD 20 to 100 feet away	emergency stop minimum 20' and maximum 100' away; fire extinguisher will be installed and accessible
5.	EMERGENCY SHEAR/FIRE VALVE: Section 6.3.9: Required on submerged pumping systems, rigidly anchored. Section 6.3.10: Suction systems require check valve or pressure regulating valve under the dispenser.	shear valve under dispenser	11.	SIGNS: Section 9.2.5.4: Warning signs posted: "No Smoking," "Stop Motor," "No filling of portable containers in or on a motor vehicle," "Place container on ground before filling," "Discharge static electricity before fueling," "Do not reenter your vehicle while fueling." Plus others.	signage will be posted
6.	DISPENSING NOZZLE: Section 6.6: Automatic-closing with or without a latch open device.	automatic closing fuel nozzles	12.	PHYSICAL PROTECTION: Section 4.3.7: Minimum 6-foot high chain link fence. Secure against unauthorized use and vehicular collision protection.	site is secured by chain link fence

APPLICATION FOR INSTALLATION OF ABOVEGROUND STORAGE TANKS

(Continued from Page 3)

SECTION III The following section applies to aboveground emergency generator operations. Part 5 of the FL/CL Rules. The requirements in Part 2 of the FL/CL Rules must also be met.

ITEM	DESCRIPTION	MANUFACTURER & PART NO.	ITEM	DESCRIPTION	MANUFACTURER & PART NO.
1.	TANK LOCATION: Section 22.4.1: To important buildings, property lines which may be built upon. Adjacent container; minimum three feet, 20 feet from LPG tank.	_____	9.	EMERGENCY VENTS: Section 22.7.: Calculated on basis of CFH multiplied by the amount of square feet of wetted area. Must be normally closed for flammable liquids.	_____
2.	SECONDARY CONTAINMENT: Part 2, Section 22.11: Control of spills; diking, alternative methods.	_____	10.	NORMAL VENTS: Section 21.4.3.: Relieve excessive internal pressure. Require P/V vent for class I liquids	_____
3.	TANK DESIGN/ CONSTRUCTION: Section 21.4.2: No open tanks for liquid storage. UL142, API 650, and ASME standards. Size of tank (gallons).	_____	11.	UNLOADING/ LOADING RISER LOCATION: Section 28.4.1: Separated from property lines, AST's, and buildings a minimum: 25 feet Class I liquid, 15 feet Class II and III liquids.	_____
4.	CORROSION PROTECTION: Section 21.4.5 & 22.5.2.2: Minimize corrosion for any part of tank in contact with foundation..	_____	12.	SPILL PROTECTION - LOADING/UNLOADING POINTS: Section 28.9: Provided with means to contain spills.	_____
5.	TANK SUPPORTS/ FOUNDATIONS: Section 22.5.1 & 22.5.2: rest on ground, concrete, masonry, piling, or steel. Areas subject to buoyant forces; each tank shall be safeguarded against movement by anchoring or other secure means.	_____	13.	OVERFILL PROTECTION: Section 22.7.1: Required on tanks over 1320 gallons capacity, approved method for the prevention of overfilling of tanks. 21.11.4.5 Secondary containment tanks require both an alarm and a shutoff valve.	_____
6.	PIPING MATERIAL: Section 27.3: Liquid-tight, steel, nodular iron. Section 27.6.4: protected against corrosion. Section 27.7: pipe testing. Section 6.8.1 and 6.8.2.1	_____	14.	FIRE PROTECTION AND IDENTIFICATION: Section 21.6 & 21.7.2: Labeled "Flammable Liquid," "Combustible Liquid," or according to NFPA 704.	_____
7.	PIPE SUPPORTS: Section 6.8.2: Constructed of non-combustible material.	_____	15.	PRODUCT ID OR RISER: Section 27.10: Identified by color code or marking.	_____
8.	COLLISION PROTECTION: Section 22.15.: Shall be provided for tanks exposed to vehicular traffic	_____	16.	FUEL FLOW CONTROL: Section 6.5 Systems shall be designed and installed to minimize accidental discharge of fuel	_____



STATE OF MICHIGAN

LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI, 48107

ATTENTION: City of Ann Arbor

Location of Tanks:

South Industrial Facility
2000 INDUSTRIAL S
ANN ARBOR, MI, 48104-6120
County - WASHTENAW
Facility ID - 91084983

A(n) Triennial Inspection was conducted on Tuesday, May 1, 2018, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACR R 29.5601 et seq. The inspection result is: Facility is Certified.

Result Comments:

Note: Inspection not due but combined UST and AST inspections on site.

If you have additional questions concerning this matter, please contact me.

Christopher C Conklin

5/17/2018

Date

Christopher C Conklin
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: 586-289-0814
Fax: (517) 332-1428
Email: conklinc2@michigan.gov



STATE OF MICHIGAN
LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION
FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Location of Tanks:

South Industrial Facility
2000 S Industrial
Ann Arbor, MI 48104
County - Washtenaw
Facility ID - 91084983

ATTENTION: Lynn Crum (Facility Manager)

A Triennial Inspection was conducted on October 26, 2015, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACRS R 29.5601 et seq. The inspection showed that the facility is temporarily certified.

- 1 Aboveground tanks shall be properly labeled to identify the fire hazard and its contents.
Part 2, Section 2.6.2.3

Special Attention : Make sure that the Aboveground Storage tank has the following labeling:

1. "FLAMMABLE"
2. "NO SMOKING"

Note: Labeling is present, but needs replacement due to age.

Note: State of Michigan (SID) database shows fees owed at: \$0.00

The inspection and violations (if any) were discussed with Lynn Crum (Facility Manager) (734-323-4158) at the time of the inspection.

Documentation shall be furnished to the district office identified below verifying that the violation(s), cited in this inspection report have been corrected. The documentation shall be provided by December 26, 2015. If the cited violation(s) are not corrected and/or certification of compliance is not provided by the date specified, a reinspection will be conducted. The owner or operator of this facility will be subject to civil and criminal provisions pursuant to Act 207, including and not limited to placement of tags to the tank(s) prohibiting delivery of product if the stated violations have not been corrected.

If you have additional questions concerning this matter, please contact me.

Christopher C. Conklin

10/26/15

Christopher C. Conklin
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: (586) 289-0814
Fax: (517) 332-1428
Email: conklinc2@michigan.gov

Date

B



STATE OF MICHIGAN
LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION

FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Location of Tanks:

South Industrial Facility
2000 S Industrial
Ann Arbor, MI 48104
County - Washtenaw
Facility ID - 91084983

ATTENTION: Lynn Crum (Facility Manager)

A Triennial Inspection was conducted on October 26, 2015, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2014 AACS R 29.5601 et seq. The inspection showed that the facility is temporarily certified.

- 1 Aboveground tanks shall be properly labeled to identify the fire hazard and its contents. Part 2, Section 2.6.2.3

Special Attention : Make sure that the Aboveground Storage tank has the following labeling:

1. "FLAMMABLE"
2. "NO SMOKING"

Note: Labeling is present, but needs replacement due to age.

Note: State of Michigan (SID) database shows fees owed at: \$0.00

The inspection and violations (if any) were discussed with Lynn Crum (Facility Manager) (734-323-4158) at the time of the inspection.

Documentation shall be furnished to the district office identified below verifying that the violation(s), cited in this inspection report have been corrected. The documentation shall be provided by December 26, 2015. If the cited violation(s) are not corrected and/or certification of compliance is not provided by the date specified, a reinspection will be conducted. The owner or operator of this facility will be subject to civil and criminal provisions pursuant to Act 207, including and not limited to placement of tags to the tank(s) prohibiting delivery of product if the stated violations have not been corrected.

If you have additional questions concerning this matter, please contact me.

Christopher C. Conklin

10/26/15

Christopher C. Conklin
Hazardous Materials Storage Inspector
Region 1
PO Box 30033
Lansing, MI 48909
Phone: (586) 289-0814
Fax: (517) 332-1428
Email: conklinc2@michigan.gov

Date

B

FL/CL ABOVEGROUND STORAGE TANK INSPECTION CHECKLIST

INSTRUCTIONS: The Hazardous Materials Storage Inspector shall complete this checklist and attach it to an inspection report, one to be retained in the District file and one for the Main Office file. All boxes shall be completed inserting N/A where non-applicable.

FACILITY NAME UTILITIES DEPT./FIELD SERVICES - 2000 INDUSTRIAL PRKWAY, ANN ARBOR, MI	FACILITY ID NUMBER 91084983
CONTACT PERSON ON SITE LYNN CRUM 734-323-4158	FACILITY TYPE ANN ARBOR MAINT. FAC.

FACILITY SECTION

SECTION		CODE	VIO	PASS
1.11.1	PLANS SUBMITTED BEFORE INSTALLATION	A1		N/A
3.6.1	NEW PIPING	A21		N/A
2.3.2.7.1	UPGRADE REQUIREMENTS MET	A53		X
3.5.6	VALVING OF PIPING	A17		X
3.5.4	PIPING PROTECTED AGAINST CORROSION	A19		X
3.5.10.2	PUMP BYPASS OR RELIEF VALVE	A35		X
3-3.1	CONSTRUCTION OF PIPE, VALVES, ETC.	A41		X
3.2.2	PIPING LIQUID TIGHT	A40		X
3.5.10.1	PUMP SHUT OFF VALVE	A26		X
1.10.5	TEST PIPING BELIEVED DEFECTIVE NONE	A22		N/A
3.5.1	PIPING SUPPORTS	A20		X
3.5.6	BACK CHECK AT UNLOADING CONNECTION	A18		X
5.6.4	SPILL CONTAINMENT AT RISERS	A37		X
5.6.3	LOADING AND UNLOADING RISER SEPARATION	A23		X

SECTION		CODE	VIO	PASS
3-9	LOADING AND UNLOADING RISERS LABELED	A36		X
2.3.2.3	SECONDARY CONTAINMENT	A31		X
2.6.8	TANK YARD SECURED	A32		X
2.3.2.3.2	NO DRUMS OR BARRELS INSIDE DIKE NONE	A34		X
3.5.11.5	PUMPHOUSE FREE OF DEBRIS AND MATERIAL	A49		X
5.13.6.4	PROPERTY FREE OF COMBUSTIBLE MATERIAL	A33		X
5.6.6	BONDING PROVISIONS BONDED W/CABLE	A45		X
2.5.5	EXTINGUISH SYSTEM (CLASS I OVER 50,000) 5,000 GAL	A38		N/A
5.13.2.1	FIRE EXTINGUISHERS (NUMBER AND SIZES)	A27		X
5.13.6.1	FIRE EXTINGUISHERS MAINTAINED	A28		X
2.5.3.2	NO SMOKING SIGNS NEED-FADED	A54		X
6.2.1	ELECTRICAL EQUIPMENT CERTIFICATION	A24		N/A
	MISCELLANEOUS FACILITY VIOLATION	A44		

TANK SECTION

2.4.1	NEW TANKS TESTED	A8		N/A
1.9.1	INSTALLED PER DESIGN, LISTING, ETC.	A43		X
2.2.3.1.1	DESIGN AND CONSTRUCTION	A42		X
2.2.5.1.1	NORMAL VENTING PRESENT ON TANK	A2		X
2.2.5.1.2	NORMAL VENT ADEQUATE SIZE	A3		X
2.2.5.1.6	NORMALLY CLOSED VENT (CLASS IA LIQUID)	A5		X
2.2.5.1.7	N/C OR FLAME ARRESTOR (CLASS IB AND IC)	A6		N/A
2.2.5.2.1	EMERGENCY VENTING ON TANK	A4		X
3.7.1.1	LOCATION OF CLASS I VENTING	A7		X
2.3.2.1.8	TANK LOCATION REF: SCHOOL ETC.	A29		X
2.3.2.1.1	TANK LOCATION REF: BUILDINGS ETC.	A30		X
2.3.4.1	TANKS LOCATED INSIDE BUILDINGS	A50		X
2.3.2.5.2	WATER DRAIN VALVES	A11		X
2.3.2.5.2	HEAT ACTUATED VALVES INSTALLED	A9		X

2.3.2.5.2	HEAT ACTUATED VALVES MAINTAINED	A10		X
2.3.2.5.2	SHUTOFF VALVES ON LIQUID LINES	A9A		X
3.5.9.1	ANTISIPHON DEVICES	A48		X
2.6.1.5.	OVERFILL - SINGLE WALL AST'S ONLY	A57		N/A
2.3.2.3.3.	OVERFILL - DOUBLE WALL AST'S ONLY	A58		X
2.6.1.6	SPILL PROTECTION (FILL RISER)	A56		X
2.3.2.5.4	DROP TUBES IN FILL PIPES N/A	A47		
2.2.6.1.3	CORROSION PROTECTION OF BOTTOM OFF GROUND	A16		N/A
2.3.1.1	RESTS ON PROPER FOUNDATION STEEL BEAM	A13		X
2.3.1.2	MATERIAL OF TANK SUPPORTS	A14		X
2.3.1.3	SUPPORTS AND PILING FIRE RATED NO WOOD PILING (STEEL)	A15		N/A
2.6.2.3	LABELING NEED LABELS(SEE BELOW)	A39		
2.6.4.1	OUT-OF-SERVICE TANKS CLEANED ETC	A46		N/A
	MISCELLANEOUS TANK VIOLATION	A51		

COMMENTS **FLAMMABLE AND NO SMOKING FADED. NEEDS REPLACEMENT. MGR STATED HE WILL COMPLETE A.S.A.P. TEMP. APPROVED.**

INSPECTOR Christopher C. Conklin DATE 10/26/15
CHRISTOPHER C. CONKLIN, HMSI-1 Page 1 of 2

Department of Licensing and Regulatory Affairs, Bureau of Fire Services, Storage Tank Division
P.O. Box 30700, Lansing, Michigan 48909

FACILITY NAME	FACILITY ID NUMBER 91084983
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DISPENSER SECTION

SECTION		CODE	VIO	PASS
6.1	DISPENSER VIOLATION	S10		X
6.2.3	DISPENSER LOCATION (10 feet to property and openings)	S11		X
6.3.4	DISPENSER PROTECTED; DAMAGE/SECURED	S13		X
6.5.1	DISPENSER HOSE 18 FEET OR LESS	S14		X
6.6.6	SPLASH GUARD ON NOZZLE	S91		X
9.2.5.4	NO SMOKING, STOP MOTOR, CONTAINER	S22		X
9.2.5.4	REMAIN OUT OF VEHICLE IN VIEW	S23		X

SECTION		CODE	VIO	PASS
6.5.2	BREAKAWAY ON HOSE	S15		X
6.3.4.1	CONTAINMENT UNDER DISPENSER	S17		X
6.3.9	EMERGENCY VALVE INSTALLED	S18		X
6.6.1	AUTOMATIC SELF-CLOSING NOZZLE CLASS I	S19		X
9.4.4	OPERATING INSTRUCTIONS POSTED	S25		X
6.3.3	OPERATES ONLY WITH HANDLE REMOVED	S12		X
6.3.5	CLASS I DISPENSER 20 FEET FROM FUEL OIL	S16		

UNATTENDED SELF-SERVICE FACILITIES

9.5.3	SIGNAGE FOR EMERGENCIES	S24		X
9.5.2	OPERATING INSTRUCTIONS POSTED	S95		X
9.5.1.1	EMERGENCY CONTROLS 20 to 100 FEET	S96		X

9.5.5	EMERGENCY PHONE ON SITE	S97		X
9.5.1	UNIQUE CARD ISSUED AND TRAINED N/A POLICE/FIRE DEPT. USE.....	S98		



HQ

STATE OF MICHIGAN
LICENSING AND REGULATORY AFFAIRS
BUREAU OF FIRE SERVICES STORAGE TANK DIVISION
FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Location of Tanks:

South Industrial Facility
2000 S Industrial
Ann Arbor, MI 48104
County - Washtenaw
Facility ID - 91084983

ATTENTION: D.L.

A Triennial Inspection was conducted on March 26, 2013, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2003 AACR R 29.5101 et seq. The inspection showed that the facility is certified.

The inspection and violations (if any) were discussed with you at the time of the inspection.

If you have additional questions concerning this matter, please contact me.

Craig Galbreath
Hazardous Materials Storage Inspector
Jackson District Office
301 E Louis B Glick Highway
Jackson, MI 49201-1556
Phone: (517) 780-7497
Fax: (517) 780-7855
Email: galbreathc@michigan.gov

3-27-13

Date



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
LANSING

STEVE ARWOOD
DIRECTOR

October 1, 2013

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Dear Owner/Operator:

SUBJECT: Nonpayment of Fee(s) for Aboveground Storage Tank(s)

The Department of Licensing and Regulatory Affairs (DLARA), Bureau of Fire Services (BFS), has not received payment for the aboveground storage tank(s) (AST) located at South Industrial Facility, 2000 S Industrial, Ann Arbor, Michigan, Facility Number 91084983.

Pursuant to Section 29.5d(2) of the Fire Prevention Code, 1941 PA 207, as amended, the owner of an aboveground storage tank system shall pay a registration fee of \$61.50 for each tank located at each facility.

You were invoiced for your registration fee for Fiscal Year 2013. Your current balance of \$61.50 is now past due and must be paid immediately. Please send your check, indicating your facility ID number, payable to the "State of Michigan," to the DLARA, Cashiers Office, P.O. Box 30033, Lansing, Michigan 48909.

If the BFS does not receive payment within 30 days of the date of this letter, your AST(s) will be red-tagged and, as such, cannot be filled. Further, you may be subject to escalated enforcement action.

The BFS will not accept payment of fees on-site or in a District Office. The tanks will be red-tagged as noted above and will not be de-tagged until payment is received by the DLARA, Cashiers Office, in Lansing.

Should you have reason to dispute all or part of these registration fees, you must submit and the BFS must receive a written statement, together with all documentation in support of your position, within 21 days of the date of this letter. The information must be sent to the DLARA, BFS, P.O. Box 30033, Lansing, Michigan 48909.

AST Removal

Fees shall be paid until such tank(s) are closed or removed, and notification of the closure or removal is received by the DLARA. Owners shall notify the DLARA of the closure or removal of storage tank(s) within 30 days after closure or removal on a Change of Information Form EQP-3858 (Rev 12/12).

If you have further questions, please feel free to contact me at (517) 335-1976.

Sincerely,

A handwritten signature in black ink that reads "Allan R. Pohl".

Allan R. Pohl, Director
Finance and Administrative Services
e-mail: Pohlal@michigan.gov



HQ

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE AND HAZARDOUS MATERIALS DIVISION
FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Location of Tanks:

South Industrial Facility
.2000 S Industrial
Ann Arbor, MI 48104
County - Washtenaw
Facility ID - 91084983

KLW SEP 10 2010

ATTENTION: Lynn Crumm

A Triennial Inspection was conducted on September 2, 2010, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2003 AACRS R 29.5101 et seq. The inspection showed that the facility is certified.

This inspection involved the E-85 tank and dispenser.

If you have additional questions concerning this matter, please contact me.

Mark Johns

Mark Johns
Hazardous Materials Storage Inspector
Jackson District Office
301 E Louis B Glick Highway
Jackson, MI 49201-1556
Phone: 517-780-7497
Fax: 517-780-7855
Email: johnsm1@michigan.gov

9-2-10
Date

FL/CL ABOVEGROUND STORAGE TANK INSPECTION CHECKLIST

INSTRUCTIONS: The Hazardous Materials Storage Inspector shall complete this checklist and attach it to an inspection report, one to be retained in the District file and one for the Headquarters file. All boxes shall be completed inserting N/A where non-applicable.

FACILITY NAME: City of Ann Arbor 2000 S. Industrial FACILITY ID NUMBER: 91084983

CONTACT PERSON ON SITE: _____ FACILITY TYPE: Pvt motor fueling

FACILITY SECTION

SECTION		CODE	VIO	PASS
1.11.1	PLANS SUBMITTED BEFORE INSTALLATION	A1		X
3.6.1	NEW PIPING	A21		X
2.3.2.7.1	UPGRADE REQUIREMENTS MET	A53		X
3.5.6	VALVING OF PIPING	A17		X
3.5.4	PIPING PROTECTED AGAINST CORROSION	A19		X
3.5.10.2	PUMP BYPASS OR RELIEF VALVE	A35		X
3-3.1	CONSTRUCTION OF PIPE, VALVES, ETC	A41		X
3.2.2	PIPING LIQUID TIGHT	A40		X
3.5.10.1	PUMP SHUT OFF VALVE	A26		X
1.10.5	TEST PIPING BELIEVED DEFECTIVE	A22	NA	
3.5.1	PIPING SUPPORTS	A20		X
3.5.6	BACK CHECK AT UNLOADING CONNECTION <u>actuated valve</u>	A18		X
5.6.4	SPILL CONTAINMENT AT RISERS	A37		X
5.6.3	LOADING AND UNLOADING RISER SEPARATION	A23		

SECTION		CODE	VIO	PASS
3-9	LOADING AND UNLOADING RISERS LABELED	A36		X
2.3.2.3	SECONDARY CONTAINMENT <u>No monitoring & no way to check</u>	A31	X	
2.6.8	TANK YARD SECURED	A32		X
2.3.2.3.2	NO DRUMS OR BARRELS INSIDE DIKE	A34	NA	
3.5.11.5	PUMPHOUSE FREE OF DEBRIS AND MATERIAL	A49		X
5.13.6.4	PROPERTY FREE OF COMBUSTIBLE MATERIAL	A33		X
5.6.6	BONDING PROVISIONS	A45		X
2.5.5	EXTINGUISH SYSTEM (CLASS I OVER 50,000)	A38	NA	
5.13.2.1	FIRE EXTINGUISHERS (NUMBER AND SIZES)	A27		X
5.13.6.1	FIRE EXTINGUISHERS MAINTAINED	A28		X
2.5.3.2	NO SMOKING SIGNS	A54		X
6.2.1	ELECTRICAL EQUIPMENT CERTIFICATION	A24		X
	MISC. FACILITY VIOLATION <u>tank crash protection Dispenser</u>	A44	X	
				X

TANK SECTION

2.4.1	NEW TANKS TESTED	A8		X
1.9.1	INSTALLED PER DESIGN, LISTING, ETC	A43		X
2.2.3.1.1	DESIGN AND CONSTRUCTION	A42		X
2.2.5.1.1	NORMAL VENTING PRESENT ON TANK	A2		X
2.2.5.1.2	NORMAL VENT ADEQUATE SIZE	A3		X
2.2.5.1.6	NORMALLY CLOSED VENT (CLASS IA LIQUID)	A5	NA	
2.2.5.1.7	N/C OR FLAME ARRESTOR (CLASS IB AND IC)	A6		X
2.2.5.2.1	EMERGENCY VENTING ON TANK	A4		X
3.7.1.1	LOCATION OF CLASS I VENTING	A7		X
2.3.2.1.8	TANK LOCATION REF: SCHOOL ETC	A29		X
2.3.2.1.1	TANK LOCATION REF: BLDGS ETC	A30		X
2.3.4.1	TANKS LOCATED INSIDE BLDGS	A50	NA	
2.3.2.5.2	WATER DRAIN VALVES	A11	NA	
2.3.2.5.2	HEAT ACTUATED VALVES INSTALLED <u>on dispenser</u>	A9		X

2.3.2.5.2	HEAT ACTUATED VALVES MAINTAINED	A10		X
2.3.2.5.2	SHUTOFF VALVES ON LIQUID LINES	A9A		X
3.5.9.1	ANTISIPHON DEVICES	A48		X
2.6.1	OVERFILL PREVENTION	A25		X
2.6.1.6	SPILL PROTECTION (FILL RISER) <u>2 forms</u>	A56		X
2.3.2.5.4	DROP TUBES IN FILL PIPES	A47		X
2.2.6.1.3	CORROSION PROTECTION OF BOTTOM	A16		X
2.3.1.1	RESTS ON PROPER FOUNDATION	A13		X
2.3.1.2	MATERIAL OF TANK SUPPORTS	A14		X
2.3.1.3	SUPPORTS AND PILING FIRE RATED	A15		X
2.6.2.3	LABELING	A39		X
2.6.4.1	OUT OF SERVICE TANKS CLEANED ETC	A46	NA	
	MISC. TANK VIOLATION	A51		

COMMENTS:

UL 2085 dbl wall tank. Top hood & unloaed

INSPECTOR: M. Johns DATE 9-28-09

All above inspected again on 9-2-10, and is in compliance. Will put in same inspection circle on V.I.T on same sheets.



HQ

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE AND HAZARDOUS MATERIALS DIVISION
FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647 100 N Fifth Ave
Ann Arbor, MI 48107

Location of Tanks:

South Industrial Facility
2000 S Industrial
Ann Arbor, MI 48104
County - Washtenaw
Facility ID - 91084983

KLW JUL 23 2010

ATTENTION: Lynn Crum

A Records Investigation was conducted on July 15, 2010, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2003 AACRS R 29.5101 et seq. The inspection showed that the facility is certified.

The previous violations (on the E-85 tank) have been corrected. Thank you for your cooperation.

If you have additional questions concerning this matter, please contact me.



Mark Johns
Hazardous Materials Storage Inspector
Jackson District Office
301 E Louis B Glick Highway
Jackson, MI 49201-1556
Phone: 517-780-7497
Fax: 517-780-7855
Email: johnsm1@michigan.gov

7-15-10

Date

Waste & Hazardous
Materials Division

JUL 19 2010

EMK NOV 16 2009

FACILITY INFORMATION SHEET

91084983

FACILITY NAME <i>South Industrial Facility</i>	FACILITY TYPE <i>Port motor fueling</i>	FACILITY NUMBER <i>91084983</i>
FACILITY STREET ADDRESS (PO BOX NOT ACCEPTABLE) <i>2000 South Industrial</i>	CONTACT PERSON (AT LOCATION)	AREA CODE & TELEPHONE NUMBER
CITY <i>Ann Arbor</i>	STATE <i>MI</i>	ZIP CODE
TANK OWNER'S NAME <i>City of Ann Arbor</i>	STREET ADDRESS <i>P.O. Box 8647</i>	AREA CODE & TELEPHONE NUMBER <i>734-794-6000</i>
CITY <i>Ann Arbor</i>	STATE <i>MI</i>	ZIP CODE <i>48107</i>

CONTRACTOR, LPG OR CNG GAS SUPPLIER INFORMATION

COMPANY NAME	AREA CODE & TELEPHONE NUMBER	
MAILING ADDRESS	CONTACT PERSON	TITLE
CITY	STATE	ZIP CODE

TANK INFORMATION

TANK #	PRODUCT	SERIAL NUMBER	MANUFACTURER	YEAR	CAPACITY
<i>1</i>	<i>E-85</i>	<i>25693</i>	<i>Highland Tank</i>	<i>2009</i>	<i>5000 gal.</i>

Waste & Hazardous
Materials Division
SEP 30 2009

FACILITY TYPE

AST		LPG	CNG
<input type="checkbox"/> BULK PLANT	<input type="checkbox"/> PIPELINE	<input type="checkbox"/> DISTRIBUTION PLANT	<input type="checkbox"/> PRIVATE SS
<input type="checkbox"/> REFINERY	<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> DISTRIBUTION POINT	<input type="checkbox"/> PUBLIC SS
<input type="checkbox"/> MARINE SS	<input checked="" type="checkbox"/> PRIVATE SS	<input type="checkbox"/> INDUSTRIAL PLANT	
<input type="checkbox"/> PUBLIC SS	<input type="checkbox"/> OIL WELL	<input type="checkbox"/> MOTOR FUELING	
<input type="checkbox"/> OIL BURNING FACILITY	<input type="checkbox"/> FL/CL	<input type="checkbox"/> LPG	

INSPECTOR NAME:

Mark Johns

DATE:

9-28-09



HQ

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE AND HAZARDOUS MATERIALS DIVISION
FACILITY INSPECTION REPORT

Owner Name & Address:

City of Ann Arbor
PO Box 8647
Ann Arbor, MI 48107-8647

Location of Tanks:

City of Ann Arbor
2000 South Industrial
Ann Arbor, MI 48104
County - Washtenaw
Facility ID - 91084983

KLW NOV 23 2009

ATTENTION: Lynn Crum

A Final Installation Inspection was conducted on September 28, 2009, for the above-referenced facility for compliance with The Michigan Fire Prevention Code, 1941 PA 207, as amended (Act 207), and the applicable sections of the rules for the Storage and Handling of Flammable and Combustible Liquids, 2003 AACR 29.5101 et seq. The inspection showed that the facility is temporarily certified.

- 1 Secondary containment shall be provided so that any accidental discharge of liquid shall be contained.
Part 2, Section 2.3.2.3

Special Attention : Install a monitor in the interstitial monitor port on top of the tank, in order to readily monitor the interstice of the tank.

- 2 Miscellaneous facility violation.
FL/CL Rules

Special Attention : Install approved vehicular crash protection for the tank assembly.

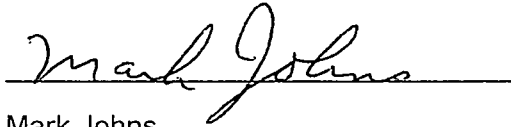
Contact me when the violations have been corrected.

Documentation shall be furnished to the district office identified below verifying that the violation(s), cited in this inspection report have been corrected. The documentation shall be provided by October 30, 2009. If the cited violation(s) are not corrected and/or certification of compliance is not provided by the date specified, a reinspection will be conducted. The owner or operator of this facility will be subject to civil and criminal provisions pursuant to Act 207, including and not limited to placement of tags to the tank(s) prohibiting delivery of product if the stated violations have not been corrected.

Waste & Hazardous
Materials Division

SEP 30 2009

If you have additional questions concerning this matter, please contact me.



Mark Johns
Hazardous Materials Storage Inspector
Jackson District Office
301 E Louis B Glick Highway
Jackson, MI 49201-1556
Phone: 517-780-7497
Fax: 517-780-7855
Email: johnsm1@michigan.gov

9-28-09

Date

FL/CL ABOVEGROUND STORAGE TANK INSPECTION CHECKLIST

INSTRUCTIONS: The Hazardous Materials Storage Inspector shall complete this checklist and attach it to an inspection report, one to be retained in the District file and one for the Headquarters file. All boxes shall be completed inserting N/A where non-applicable.

FACILITY NAME: City of Ann Arbor 2000 S. Industrial FACILITY ID NUMBER: 91084983
 CONTACT PERSON ON SITE: _____ FACILITY TYPE: Av + motor fueling

FACILITY SECTION

SECTION	DESCRIPTION	CODE	VIO	PASS
1.11.1	PLANS SUBMITTED BEFORE INSTALLATION	A1		X
3.6.1	NEW PIPING	A21		X
2.3.2.7.1	UPGRADE REQUIREMENTS MET	A53		X
3.5.6	VALVING OF PIPING	A17		X
3.5.4	PIPING PROTECTED AGAINST CORROSION	A19		X
3.5.10.2	PUMP BYPASS OR RELIEF VALVE	A35		X
3-3.1	CONSTRUCTION OF PIPE, VALVES, ETC	A41		X
3.2.2	PIPING LIQUID TIGHT	A40		X
3.5.10.1	PUMP SHUT OFF VALVE	A26		X
1.10.5	TEST PIPING BELIEVED DEFECTIVE	A22	NA	
3.5.1	PIPING SUPPORTS	A20		X
3.5.6	BACK CHECK AT UNLOADING CONNECTION <i>solenoid valve</i>	A18		X
5.6.4	SPILL CONTAINMENT AT RISERS	A37		X
5.6.3	LOADING AND UNLOADING RISER SEPARATION	A23		

SECTION	DESCRIPTION	CODE	VIO	PASS
3-9	LOADING AND UNLOADING RISERS LABELED	A36		X
2.3.2.3	SECONDARY CONTAINMENT <i>no weights</i>	A31	X	
2.6.8	TANK YARD SECURED <i>no monitoring & no watch</i>	A32		X
2.3.2.3.2	NO DRUMS OR BARRELS INSIDE DIKE	A34	NA	
3.5.11.5	PUMPHOUSE FREE OF DEBRIS AND MATERIAL	A49		X
5.13.6.4	PROPERTY FREE OF COMBUSTIBLE MATERIAL	A33		X
5.6.6	BONDING PROVISIONS	A45		X
2.5.5	EXTINGUISH SYSTEM (CLASS I OVER 50,000)	A38	NA	
5.13.2.1	FIRE EXTINGUISHERS (NUMBER AND SIZES)	A27		X
5.13.6.1	FIRE EXTINGUISHERS MAINTAINED	A28		X
2.5.3.2	NO SMOKING SIGNS	A54		X
6.2.1	ELECTRICAL EQUIPMENT CERTIFICATION	A24		X
	MISC. FACILITY VIOLATION <i>tank crash protection</i>	A44	X	
	<i>Dispenser</i>			X

TANK SECTION

SECTION	DESCRIPTION	CODE	VIO	PASS
2.4.1	NEW TANKS TESTED	A8		X
1.9.1	INSTALLED PER DESIGN, LISTING, ETC	A13		X
2.2.3.1.1	DESIGN AND CONSTRUCTION	A42		X
2.2.5.1.1	NORMAL VENTING PRESENT ON TANK	A2		X
2.2.5.1.2	NORMAL VENT ADEQUATE SIZE	A3		X
2.2.5.1.6	NORMALLY CLOSED VENT (CLASS IA LIQUID)	A5	NA	
2.2.5.1.7	N/C OR FLAME ARRESTOR (CLASS IB AND IC)	A6		X
2.2.5.2.1	EMERGENCY VENTING ON TANK	A4		X
3.7.1.1	LOCATION OF CLASS I VENTING	A7		X
2.3.2.1.8	TANK LOCATION REF: SCHOOL ETC	A29		X
2.3.2.1.1	TANK LOCATION REF: BLDGS ETC	A30		X
2.3.4.1	TANKS LOCATED INSIDE BLDGS	A50	NA	
2.3.2.5.2	WATER DRAIN VALVES	A11	NA	
2.3.2.5.2	HEAT ACTUATED VALVES INSTALLED <i>on dispenser</i>	A9		X

SECTION	DESCRIPTION	CODE	VIO	PASS
2.3.2.5.2	HEAT ACTUATED VALVES MAINTAINED	A10		X
2.3.2.5.2	SHUTOFF VALVES ON LIQUID LINES	A9A		X
3.5.9.1	ANTISIPHON DEVICES	A48		X
2.6.1	OVERFILL PREVENTION <i>2 forms</i>	A25		X
2.6.1.6	SPILL PROTECTION (FILL RISER)	A56		X
2.3.2.5.4	DROP TUBES IN FILL PIPES	A47		X
2.2.6.1.3	CORROSION PROTECTION OF BOTTOM	A16		X
2.3.1.1	RESTS ON PROPER FOUNDATION	A13		X
2.3.1.2	MATERIAL OF TANK SUPPORTS	A14		X
2.3.1.3	SUPPORTS AND PILINGS FIRE RATED	A15		X
2.6.2.3	LABELING	A39		X
2.6.4.1	OUT OF SERVICE TANKS CLEANED ETC	A46	NA	
	MISC. TANK VIOLATION	A51		

COMMENTS:

UL 2085 dbl wall tank, top load & unload

INSPECTOR: M. Johns

DATE 9-28-09



Mailed
9-23-09
LM

PLAN REVIEW REPORT

This information is required under Act 207 of the Public Acts of 1941, as amended, being Section 29.5c of the Michigan Compiled Laws Annotated. Any owner who knowingly fails to notify or submits false information shall be subject to a misdemeanor and/or civil penalties not to exceed \$5000 per day for each tank for which notification is not given or for which false information is submitted.

<input type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> FINAL	DATE September 16, 2009	FACILITY NUMBER - 91084983	REFERENCE # PR-0326-09
--------------------------------------	---	----------------------------	-------------------------------	---------------------------

<input checked="" type="checkbox"/> STORAGE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS <input type="checkbox"/> INSTALLATION OF LIQUEFIED PETROLEUM GAS FACILITY <input type="checkbox"/> INSTALLATION OF COMPRESSES NATURAL GAS FUELING FACILITY <input type="checkbox"/> INSTALLATION OF HYDROGEN FACILITY	TANK NUMBER(S) 1
--	---------------------

ARCHITECT/ENGINEER/INSTALLER Oscar W. Larson Co.-Clarkston 10100 Dixie Highway Clarkston, MI 48348	PROJECT: City of Ann Arbor ADDRESS: 2000 South Industrial Ann Arbor, MI 48104 COUNTY: Washtenaw
---	--

The plans and specifications for the above project have been reviewed for compliance with applicable rules. Field inspection approval will be required before placing the system into operation.

APPROVED APPROVED CONTINGENT UPON COMPLIANCE WITH THE FOLLOWING NOT APPROVED FOR THE FOLLOWING REASONS

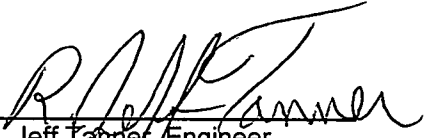
Hazardous Materials Storage Inspector **Mark Johns** of the Department of Environmental Quality office in **Jackson District Office**, telephone number **517-780-7497**, may be contacted to schedule a site inspection. **This installation may not be placed into service until Department of Environmental Quality personnel have conducted a final inspection.** Preliminary inspections can be valuable in identifying and addressing site constraints and considerations prior to installation of the storage tank system.

Provide certification of compliance with the National Electrical Code at final inspection.

If this system is not installed within one year, please contact this office for possible resubmittal of plans.

This review is based upon submitted information, and is not considered a permit. Approval of a tank installation plan by the department of Environment Quality, does not relieve an owner or installer from having to meet the requirements of other state and local government laws, including zoning laws. The Hazardous Materials Storage Inspector may find additional deficiencies during site inspections.

If you have questions concerning this matter, please contact the Storage Tank Unit at (517) 335-2690 between the hours of 10:00 a.m. - 12:00 p.m. and 1:00 p.m. - 3:00 p.m.


R. Jeff Tanner, Engineer
Storage Tank Unit

cc: Mark Johns, DEQ



APPLICATION FOR INSTALLATION OF ABOVEGROUND STORAGE TANKS

This information is required under Act 207 of the Public Acts of 1941, as amended, being Section 29.5c of the Michigan Compiled Laws Annotated

INSTRUCTIONS: The item numbers are referenced in the attached typical installation of an Aboveground Storage Tank. The system must be in compliance with the Storage and Handling of Flammable and Combustible Liquids (FL/CL) Rules, 2003 AACRS 29.5101 et seq. The manufacturer and part number must be indicated next to the appropriate item. For installations involving container and portable tank storage, please see Part 2, Chapter 4 of the FL/CL Rules for additional requirements. For bulk plants, industrial plants, chemical plants, processing plants, refineries and distilleries, please refer to Part 2, Chapter 5 of the FL/CL Rules for additional requirements. For emergency generator tanks please see Part 5 of the FL/CL Rules for additional requirements, and complete Section III of this form. Please direct any questions to the Storage Tank Unit at 517-335-7211 or e-mail at DEQ-STD-TANKS@michigan.gov. For detailed instructions, see Page 5.

PR-032609

FACILITY NAME City of Ann Arbor	NEW ASSIGNED TANK NUMBER(S) 1	FACILITY ID NUMBER 91084983
FACILITY STREET ADDRESS (PO BOX NOT ACCEPTABLE) 2000 South Industrial	CONTACT PERSON (AT LOCATION) Lynn Crum	AREA CODE & TELEPHONE NUMBER (734) 323-4158
CITY Ann Arbor	COUNTY Washtenaw	STATE MI
		ZIP CODE 48104
OWNER NAME City of Ann Arbor	OWNER ADDRESS P. O. Box 8647	AREA CODE & TELEPHONE NUMBER (734) 994-6095
CITY Ann Arbor	STATE MI	ZIP CODE 48104
SUBMITTER'S NAME Darren T. Painter – Oscar W. Larson Co.	STREET ADDRESS 10100 Dixie Highway	AREA CODE & TELEPHONE NUMBER (248) 620-0070 x143
CITY Clarkston	STATE MI	ZIP CODE 48348

SECTION I The following section applies to aboveground tank installations, Part 2 of the FL/CL Rules.

ITEM	DESCRIPTION	MANUFACTURER & PART NO.	ITEM	DESCRIPTION	MANUFACTURER & PART NO.
1.	TANK LOCATION: Section 2.3.2: To important buildings, property lines which may be built upon. Adjacent container: minimum three feet, 20 feet from LPG tank.	UL2085 Double Wall 5,000 gallon tanks. See site plan. No LPG within applicable distances	5.	TANK SUPPORTS/ FOUNDATIONS: Section 2.2.4: rest on ground, concrete, masonry, piling, or steel. Section 2.3.1: Anchorage areas subject to buoyant forces; each tank shall be safeguarded against movement by anchoring or other secure means.	Steel tank saddles on reinforced concrete pad
2.	SECONDARY CONTAINMENT: Section 2.3.2.3: Diking/remote impoundment and alternative methods. Section 4.3.3 of Part 3: Vaults and special enclosures. Liquid-tight, non-combustible (walls and floors). Capacity: 100% largest tank plus volume occupied by other tanks.	UL 2085 PAID # 203.00 9-09-09	6.	SPACING BETWEEN TANKS: Section 2.3.2.2 & Table 2.3.2.2.1: Class I, II, IIIA minimum 10 feet from dike wall to LPG tank. Minimum 20 feet between FL/CL tank and LPG tank.	Single tank. No LPG within applicable distances AST 331008-0-1 08/10/08 33000 52000 1857 AT 2008 3203
3.	TANK DESIGN/ CONSTRUCTION: Section 2-2: No open tanks for liquid storage. UL142, API 650, and ASME standards.	UL2085	7.	PIPING MATERIAL: Section 3.3: Liquid-tight, steel, nodular iron. Section 3.5.4: protected against corrosion. Section 3.6: pipe testing. Section 3.5.8.3: gravity flow prevention. Section 5.2.4 of Part 3: pipe in building.	Liquid tight steel, painted
4.	CORROSION PROTECTION: Section 2.2.6: Tank bottom installed on grade must be protected against corrosion.	Tanks elevated on saddles	8.	PIPE SUPPORTS: Section 3.5.1: Constructed of non-combustible material.	Non-combustible pipe supports as needed

APPLICATION FOR INSTALLATION OF ABOVEGROUND STORAGE TANKS

(Continued from Page 1)

ITEM	DESCRIPTION	MANUFACTURER & PART NO.	ITEM	DESCRIPTION	MANUFACTURER & PART NO.
9.	TANK VALVES (LINES ATTACHED): Section 2.3.2.5: Above liquid level requires anti-siphon. Approved non-freeze. Below level 50,000 gallons or less shall have approved heat activated internal or external valve. water drain valve.	All connections above liquid level. Morrison 710 normally closed solenoid valve on supply line 	15.	OVERFILL PROTECTION: Section 2.6.1: Delivery operator shall have means to determine liquid level. Automatically stop filling before liquid level is 95% of tank capacity and sound audible alarm when liquid level is 90% of tank capacity.	Morrison 9095 overfill valve with Morrison 918 clock gauge / alarm
10.	EMERGENCY VENTS: Section 2.2.5.2: Calculated on basis of CFH per multiplied by the amount of square feet of wetted area. Must be normally closed for flammable liquids.	Morrison 244 emergency vents sized accordingly 	16.	PRODUCT FLOW PROTECTION: Section 3.5.6: Back flow protection - check valve. Additional valves may be required to insure proper product flow in the piping system.	FE Petro check valve in fuel lines
11.	NORMAL VENTS: Section 2.2.5.1: Relieve excessive internal pressure.	OPW 523 3" normal vents 	17.	PRODUCT ID OR RISER: Section 3.9: Identified by color code or marking.	Fill risers properly identified
12.	PUMP VALVES: Section 3.5.10.1: Shall be provided with positive shutoffs on both sides.	Morrison 691 ball valves as needed 	18.	UNLOADING/ LOADING RISER LOCATION: Section 5.6: Separated from property lines, aboveground tanks, plant buildings a minimum: 25 feet Class I liquid, 15 feet Class II and III liquids.	Simplex Fill Port
13.	PUMPS: Section 3.10.2: Shall be provided with relief valve or bypass.	FE Petro 3/4hp submerged pump 	19.	SPILL PROTECTION - LOADING/UNLOADING POINTS: Section 5.6.4: Prevent spills from entering drain systems, waterways, groundwater and/or subsurface soils. Cannot drain into diked area.	Simplex Fill Port
14.	FIRE PROTECTION AND IDENTIFICATION: Section 2.6.2.3: Labeled "Flammable Liquid," "Combustible Liquid," or according to NFPA 704.	Tanks properly labeled 	20.	LOCATION OF WATER WELLS: Section 2.3.2.1.8: Location of drinking water wells and surface water intakes within applicable distances of the proposed storage tank system.	Municipal supply. No wells within applicable distances.

APPLICATION FOR INSTALLATION OF ABOVEGROUND STORAGE TANKS

(Continued from Page 2)

SECTION II

The following section applies to aboveground motor vehicle fueling and marina operations, Part 3 of the FL/CL Rules. The requirements in Chapters 1, 2, and 3 of Part 2 of the FL/CL Rules must also be met. Inventory records shall be kept for all Class I, Class II, and Class IIIA storage.

ITEM	DESCRIPTION	MANUFACTURER & PART NO.	ITEM	DESCRIPTION	MANUFACTURER & PART NO.
1.	TYPE OF SERVICE STATION: Attended qualified supervisor. Unattended self-service. Inside building. Marine service station.	Private facility _____ _____ _____ _____	7.	DRAINAGE AND WASTE DISPOSAL: Section 9.2.6.3: Prevent spilled liquid from entering interior of service station. Section 9.2.6.4: Area should be protected to minimize spills from entering groundwater, surface water, and subsurface soils.	Concrete fueling pad _____ _____ _____ _____
2.	LOCATION OF DISPENSER: Section 6.2.3: Minimum 10 feet from property lines, combustible building walls, and building openings. Within 100 feet of emergency shutoff switch. Section 9.4.5: In clear view of attendant.	Min 100' to property line, 12' to building. See site sketch _____ _____ _____ _____	8.	EMERGENCY BREAKAWAY DEVICE: Section 6.5: Installed on each hose that dispenses a liquid into motor vehicles. Designed to retain liquid on both sides of the breakaway point.	OPW 66 or equal _____ _____ _____ _____
3.	DISPENSING DEVICE: Section 6.3.2: Must be listed and identified as to product it dispenses. Section 6.3.3: Equipped to allow control of flow. Section 6.3.4: Mounted on concrete island and protected from collision.	Dresser Wayne G6201 on raised island with bumper guards _____ _____ _____ _____	9.	ANTI-SIPHON DEVICE: Section 4.2.4 & 4.3.6.5: Normally closed solenoid valve for elevated tanks.	Morrison 710 normally closed solenoid valve _____ _____ _____ _____
4.	AREA BENEATH DISPENSER: Section 6.3.4.1: Designed to prevent leaks from entering groundwater, surface water or subsurface soils.	Raised platform with containment _____ _____ _____ _____	10.	FIRE EXTINGUISHER: Section 9.2.5.2: Minimum of two listed 4A-20BC or one 4A-40BC within 75 feet of dispensers, fill pipes, and dispensing area.	Fire extinguisher installed as required _____ _____ _____ _____
5.	EMERGENCY SHEAR/FIRE VALVE: Section 6.3.9: Required on submerged pumping systems, rigidly anchored. Section 6.3.10: Suction systems require check valve or pressure regulating valve under the dispenser.	OPW 10 series valve on pressurized supply line _____ _____ _____ _____	11.	SIGNS: Section 9.2.5.4: Warning signs posted: "No Smoking," "Stop Motor," "Remain in attendance outside of vehicle and in view of the nozzle." Unlawful to dispense gasoline into unapproved containers. No filling of portable containers in or on a motor vehicle.	Signage installed as required _____ _____ _____ _____
6.	DISPENSING NOZZLE: Section 9.6.3: Automatic-closing with or without a latch open device. Section 6.6.6: Splashguard required.	OPW 11BP nozzle _____ _____ _____ _____	12.	PHYSICAL PROTECTION: Section 4.3.7: Minimum 6-foot high chain link fence. Secure against unauthorized use and vehicular collision.	Secured private yard _____ _____ _____ _____



10100 Dixie Hwy. * Clarkston, MI 48348
Phone: (248) 620-0070 * (248) 549-3610
Fax: (248) 620-0071 * (248) 620-0072

1946-2006

60

Years of
Excellence

September 4, 2009

Michigan D.E.Q./Waste & Hazardous Materials Division
Storage Tank Unit
525 West Allegan – Atrium North
Lansing, MI 48933

ATTENTION: Technical Review Unit

**RE: Aboveground Storage Tank Plan Review
City of Ann Arbor
2000 South Industrial
Ann Arbor, MI 48104**

OVERVIEW

We propose to install one (1) 5,000 gallon double wall UL2085 above ground storage tank for private motor vehicle fueling. Their water is supplied by the City and there are no water wells within applicable distances.

Please acknowledge receipt of this application, if possible. Should you have any questions or concerns, please contact me at the office at (248) 620-0070, extension 143.

Thank you for your consideration.

Sincerely,

OSCAR W. LARSON COMPANY

A handwritten signature in black ink, appearing to read 'Darren T. Painter', written over a horizontal line.

Darren T. Painter
Project Manager

Attachments

Andrew Temerowski

From: EGLE FOIA Request Center <michiganegle@govqa.us>
Sent: Wednesday, March 2, 2022 9:38 AM
To: Andrew Temerowski
Subject: FOIA Request :: E208510-022122

--- Please respond above this line ---

March 02, 2022

Reference Number: E208510-022122

Mr. Andrew Temerowski
Atlas
46555 Humbolt Drive, Suite 100
Novi, MI 48377

Dear Mr. Temerowski:

This notice responds to your request for records received by the Department of Environment, Great Lakes, and Energy (EGLE), requesting information under the Freedom of Information Act (FOIA), MCL 15.231 *et seq.*

You requested the following:

2000 South Industrial Highway. All Records.

Your request is granted. EGLE states that, to the best of its knowledge, information, and belief, the records provided in the EGLE FOIA Request Center, represent all information in EGLE's possession responsive to your request.

Please download the responsive records here: [EGLE FOIA Request Center](#). If you have any downloading problems, please make sure your Internet browser does not have a pop-up blocker preventing the download.

If you have questions concerning this matter, please access your online account and reply to the message found there. To review a copy of EGLE's FOIA policy and procedure, public written summary, and several online databases, go to www.michigan.gov/eglefoia.

Kind regards,

EGLE FOIA

November 11, 1996

Ms. Vicki Katko
Michigan Department of Environmental Quality
Environmental Response Division
Jackson State Office Building
301 E. Louis Glick Hwy.
Jackson, Michigan 49201



SUBJECT: Alsalis Diesel Fuel Spill
2000 S. Industrial, Ann Arbor, Michigan
Smith Environmental Project No. 05-8030-20

Dear Ms. Katko:

Pursuant to your request during our telephone conversation on Wednesday, November 6, 1996, Smith Technology Corporation is forwarding the following information regarding laboratory analyses of closure samples collected at the Atsalis diesel fuel spill site.

- Laboratory services for all closure sample analyses were performed by AAC Trinity Inc. (formerly Kemron Environmental Services) of Farmington Hills, Michigan.
- All closure samples were analyzed for diesel fuel indicator constituents in accordance with guidance documents issued by MDEQ. Specifically, all samples were analyzed for benzene, ethylbenzene, toluene, and total xylene (BETX) by EPA Method 8020 and polynuclear aromatic hydrocarbons (PNAs) by EPA Method 8310.
- Target Method Detection Limits (TMDLs) used by the laboratory were selected in accordance with Environmental Response Division Operational Memorandum #6, Revision #4 guidance for cleanup of Part 201 sties.

Enclosed for your review is a copy of a signed laboratory data sheet documenting the aforementioned information. A final report of site remediation and closure, including all laboratory data sheets, waste manifests, and related project documentation, will be prepared and forwarded to your attention.



Ms. V. Katko

2

November 11, 1996

Finally, this letter shall serve as confirmation that the meeting scheduled for Wednesday, November 13, 1996 at your office has been canceled. Based upon information forwarded to you by facsimile on November 5, 1996, existing documentation is sufficient to demonstrate that closure has been attained and a separate meeting (to review that documentation) will not be necessary.

If you have any questions regarding the information presented herein, please don't hesitate to call either Jeff King or Ed Hogan.

Sincerely,

A handwritten signature in blue ink that reads 'Edward Hogan'. The signature is fluid and cursive, with the first name 'Edward' and last name 'Hogan' clearly legible.

Edward Hogan, PE, CHMM
District Manager

attachments

cc: Mr. Sumedh Bahl, City of Ann Arbor
Ms. Stephanie Chrisman, REMSA
Mr. Richard Connors, Plunkett & Cooney

AAC Trinity Inc.
38855 Hills Tech Drive
Ste 550
Farmington Hills, MI 48331

Phone: (810)848-9656

SMITH TECHNOLOGY
13485 STAMFORD CT
LIVONIA MI 48150

Attn: JEFF KING

Purchase Order: 32891
Invoice Number: 101036

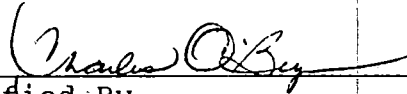
Order #: 96-10-181
Date: 11/01/96 11:37
Work ID: 05-8030-20/ATSALIS DIESEL
Date Received: 10/25/96
Date Completed: 10/28/96

Client Code: SMTH_354G

Report Revised 10/31/96. Sample 06A re analyzed.

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>	<u>Sample Number</u>	<u>Sample Description</u>
01	B-23/4.5'	06	S-32/3'
02	B-24/4.5'	07	B-26/4.5'
03	B-25/4.5'	08	S-33/3'
04	S-30/3'	09	S-34/4'
05	S-31/3'		


Certified By
Charles O'Bryan, Laboratory Director

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 4

Sample Description: B-23/4.5' Collected: 10/24/96 10:15 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 01A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA240
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 44 _____ % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 5

Sample Description: B-23/4.5' Collected: 10/24/96 10:15 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 01A Category: SOIL

ANALYST: TAN FILE #: 1011054
INSTRMT: 3400CX INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 77.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED



**LEAKING UNDERGROUND STORAGE TANK
 INITIAL ASSESSMENT REPORT COVER SHEET**

NEW or AMENDMENT TO INITIAL ASSESSMENT REPORT

INSTRUCTIONS: COMPLETION OF THIS REPORT WITH ALL APPLICABLE INFORMATION IS MANDATORY pursuant to Part 213, Section 324.21308a and 324.21308a(2)(b) of the Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Check one of the boxes above to indicate whether this is a new or amended submittal. Please provide the completed Initial Assessment Report and the associated Table of Contents, Form EQP4006, to the appropriate RRD District Office within 180 days after a release has been discovered.

SITE NAME: Utilities Dept./Field Services		FACILITY ID NUMBER: 0-010237	
STREET ADDRESS: 2000 S. Industrial Highway			
CITY: Ann Arbor	ZIP: 48104	COUNTY: Washtenaw	
DATE(S) RELEASE(S) DISCOVERED: 6/29/2020	CONFIRMED RELEASE NUMBER(S): C-0126-20		
O/O NAME: City of Ann Arbor	O/O EMAIL ADDRESS: mikulhanek@a2gov.org		
O/O STREET ADDRESS: 301 E. Huron, 6 th Floor	CITY: Ann Arbor	STATE: MI	ZIP: 48104
CONTACT PERSON: Matthew J. Kulhanek	PHONE: 734-794-6312	FAX:	

Permission is given for the Department of Environmental Quality to contact the Qualified Consultant: YES NO

INITIAL ASSESSMENT REPORT INFORMATION: Answer All Questions (DO NOT LEAVE BLANKS)

1. Site classification (1-4): **4** Previous site classification (1-4): N Type of RBCA evaluation: Tier I Tier II Tier III

2. Substance(s) released: Gasoline Diesel Ethanol: E-10 or E-85 Other: Kerosene

3. Has contamination migrated off-site above Tier 1 Residential RBSLs? YES NO
 If YES, have off-site impacted parties been notified per Section 324.21309a(3) of Part 213? YES NO

4. Predominant groundwater flow direction: **NE** Depth to groundwater: **2.60' – 6.60' BG**

5. Is mobile NAPL present: Currently? YES NO Previously? YES NO

If present, was it recovered? YES NO If recoverable, total gallons recovered since last reported: **0.0** to date: **0.0**

6. Is migrating NAPL present: YES NO If yes, are actions being taken to stop NAPL migration? YES NO

7. Since last report: cubic yards of soil remediated: **160** gallons of groundwater remediated: **28,125**
 Totals to date: cubic yards of soil remediated: **160** gallons of groundwater remediated: **28,125**

8. Have toxic or explosive vapors been identified in any confined spaces (basement, sewer, etc.)? YES NO

9. Drinking water supply affected? Currently: YES NO Previously: YES NO

Indicate type and # of wells affected: Private # Public Type II/III # Municipal #

10. Has the release affected surface water or wetlands? YES NO

11. Estimated distance and direction from point of release to nearest: Private well: **0.48 mi W** Municipal well: **2.19 mi NW**

Surface water/wetland: **Unnamed Pond – 0.43 mi west** Is site within a wellhead protection zone? YES NO

12. Has the UST(s) been emptied? YES NO Has the UST System(s) been properly closed? YES NO

If NO, explain why?

RECEIVED

MAR 10 2021

**EGLE - RRD
 JACKSON DISTRICT OFFICE**



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY – REMEDIATION AND REDEVELOPMENT DIVISION
 PO BOX 30426, LANSING, MI 48909-7926, Phone 517-284-5087, Fax 517-241-9581

**LEAKING UNDERGROUND STORAGE TANK
 INITIAL ASSESSMENT REPORT COVER SHEET**

(Continued)

This Initial Assessment Report (IAR), which was completed in accordance with Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA451, as amended, is submitted by:

SIGNATURE OF OWNER/OPERATOR (O/O)		
	Matthew J. Kulhanek	2/22/21
O/O or AUTHORIZED REPRESENTATIVE SIGNATURE	PRINT NAME	DATE

SIGNATURE OF QUALIFIED UST CONSULTANT (QC)		
	Gerard DeBusschere, CPG, CP	2/19/2021
QC SIGNATURE*	PRINT NAME	DATE

* By signing this form I certify that I meet the qualified underground storage tank consultant requirements identified in section 324.21325 of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

ATC Group Services LLC	46555 Humboldt Drive Suite 100, Novi, MI 48377	
QC COMPANY NAME	QC ADDRESS, CITY, STATE, ZIP	
(248) 863.2563	(248) 669-5147	gerard.debusschere@atcgs.com
QC PHONE	QC FAX NUMBER	QC EMAIL ADDRESS

RECEIVED

MAR 10 2021

EGLE - RRD
 JACKSON DISTRICT OFFICE

Instructions - Utilize the following Table of Contents (TOC) to ensure that all information required by Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, is provided in the Initial Assessment Report (IAR). RBCA is defined in Part 213 as the ASTM standards E 1739-95 (2010), E 2081-00 (2010), and E 2531-06. Information in these standards must be provided, as applicable per site conditions. The Department of Environmental Quality (DEQ) may request supporting documentation to the data and conclusions of the IAR, which may include information in the ASTM standards referenced above.

Complete the IAR report cover sheet and pages 1 through 5 of the TOC. The order and format in which the information is provided is at the submitter's discretion. Each page of the report, including appendices, should be consecutively numbered. The column labeled as "Page(s)" should be completed with the range of page numbers for each section. You may reference previously submitted material by specifying where the information is located within the referenced document.

INITIAL ASSESSMENT REPORT TABLE OF CONTENTS (TOC)	PAGE(s)
A. EXECUTIVE SUMMARY (Optional)	11
<ol style="list-style-type: none"> 1. An executive summary with a brief description of initial assessment activities. <p>References: ASTM E1739-95 (Reapproved 2010), Section 6.11.1</p>	
B. SITE INFORMATION	12
<ol style="list-style-type: none"> 1. The property address. 2. The name of the business, if applicable. 3. The name, address, and telephone number of a contact person for the owner or operator. 4. The time and date of release discovery. 5. The time and date the release was reported to the department. 6. A description of how the release was discovered. 7. A list of regulated substances the underground storage tank system contained when the release occurred. 8. A list of the regulated substances the underground storage tank system contained in the past. 9. The component of the underground storage tank system from which the release occurred. 10. A review of historical records of site activities and past releases and potential source areas. <p>References: Part 213, Section 21308a(1)(b); ASTM E1739-95 (Reapproved 2010), Section 6.2.1.1</p>	
C. INITIAL RESPONSE ACTIONS and INTERIM REMEDIAL ACTION	14
<ol style="list-style-type: none"> 1. Was the underground storage tank system emptied to prevent further release? 2. The extent to which all or part of the underground storage tank system or soil, or both, was removed. 3. Results of initial response actions taken under Part 213, Section 21307(2). 4. Identify the steps taken to mitigate immediate fire, explosion hazards, and acute vapor hazards. 5. Description of the actions taken to prevent further release of the regulated substance into the environment, including removing the regulated substance from the underground storage tank system that is causing the release. 6. Describe the steps taken that were necessary and feasible, to address unacceptable immediate risk regarding Non-Aqueous Phase Liquid (NAPL), using the process outlined by Risk-Based Corrective Action (RBCA). 7. Amount of soil excavated, contained, treated, or disposed, above the water table, that were visibly contaminated and likely to cause a fire hazard. 8. Any other actions taken to abate an immediate threat to public health, safety, or welfare, or the environment. 	

INITIAL ASSESSMENT REPORT TOC Page 2 of 5	PAGE(s)
C. <u>INITIAL RESPONSE ACTIONS and INTERIM REMEDIAL ACTION (Continued)</u>	14
<p>9. A description of what other steps were taken to prevent further migration of the regulated substance into the soil or ground water.</p> <p>10. Whether toxic or explosive vapors, or migrating or mobile NAPL was found, the steps that were taken to evaluate those conditions, and the current levels of toxic or explosive vapors or migrating or mobile NAPL in nearby structures.</p> <p>11. Data from analytical testing of soil and ground water samples.</p> <p>References: Part 213, Section 21308a(1)(a), Section 21308a(1)(b), and Section 21307(2)</p>	
D. <u>MOBILE or MIGRATING NAPL INVESTIGATION</u>	16
<p>1. A description of the mobile or migrating NAPL investigation, and an evaluation conducted pursuant to Part 213, Section 21307(2)(c).</p> <p>2. A description of NAPL removal, if NAPL is recoverable and removal is necessary to abate an unacceptable risk pursuant to the provisions outlined in RBCA.</p> <p>3. A description of the actions taken to remove any NAPL.</p> <p>4. The name of the person or persons responsible for implementing the NAPL removal measures.</p> <p>5. The estimated quantity, type, and thickness of NAPL observed or measured in wells, boreholes, and excavations.</p> <p>6. The type of NAPL recovery system used.</p> <p>7. Discharge location, if any discharge will take place on or off site during the recovery operation.</p> <p>8. The type of treatment applied to, and the effluent quality expected from, any discharge.</p> <p>9. The steps that have been or are being taken, to obtain necessary permits for any discharge.</p> <p>10. The quantity and disposition of the recovered NAPL.</p> <p>11. Please note the following: If migrating or mobile NAPL is discovered at a site after the submittal of an IAR pursuant to Part 213, Section 21308(1), the owner or operator shall do both of the following:</p> <p>a. Perform initial actions identified in Part 213, Section 21307(2)(c).</p> <p>b. Submit to the Department an amendment to the IAR within 30 days of discovery of the migrating or mobile NAPL that describes response actions taken as a result of the migrating or mobile NAPL discovery.</p> <p>References: Part 213, Section 21308a(1)(b), and Section 21308a(2)</p>	
E. <u>INITIAL SITE ASSESSMENT</u>	17
<p>1. Describe the site.</p> <p>2. Provide a summary of the site ownership and use; historical records of site activities; past releases; and potential source areas.</p> <p>3. Provide a summary of the current and completed site activities.</p> <p>4. Provide an estimate of the horizontal and vertical extent of on-site and off-site soil contamination exceeding the applicable Risk-Based Screening Level (RBSL) for Tier I sites, or the applicable Site Specific Target Level (SSTL) for Tier II or Tier III sites.</p> <p>5. Estimate the amount of contaminated soil in the vadose zone.</p> <p>6. Describe the steps that have been taken or will be taken, including an implementation schedule, to expeditiously secure access to off-site properties, to complete the delineation of the extent of the release if the contamination exceeds the applicable RBSL or the applicable SSTL.</p> <p>7. Describe and depict the vertical distribution of contaminants.</p> <p>8. Identify any other contamination on the site not resulting from the release and the source.</p> <p>9. Identify the Chemical(s) of Concern (CoC), location of major sources of the CoC, and location of maximum concentrations of CoC in soil, ground water, air, soil gas, surface water, and sediments.</p> <p>10. Determine the regional hydrogeologic and geologic characteristics (i.e., depth to ground water, aquifer thickness, flow rate, direction, gradient, description of confining units, and ground water quality).</p>	

INITIAL ASSESSMENT REPORT TOC Page 3 of 5	PAGE(s)
E. INITIAL SITE ASSESSMENT (Continued)	17
<ul style="list-style-type: none"> 11. Identify potential migration and exposure pathways and receptors. 12. Determine the location of humans and the environmental receptors that could be impacted (i.e., point(s) of exposure). 13. Identify the location of nearby surface waters, wetlands, nearby underground sewers, and utility lines. 14. Evaluate the impacts to environmental receptors. 15. Provide a summary of the analytical data and the appropriate RBSL or SSTL used. 16. Provide a summary of the ecological assessment and beneficial uses. 17. Provide site photos. 18. Conduct a pathway analysis by identifying potentially significant transport and human and ecological exposure pathways (i.e., ground water transport, vapor migration through soils and utilities). 19. Describe the current and reasonably anticipated future use of the site and surrounding land, including ground water resources, surface water, relevant ecological receptors, and habitats. 20. If appropriate, calculate an appropriate upper confidence limit for the CoC. 21. Determine background concentrations of CoC in the environment. <p>References: Part 213, Section 21308a(1)(b); and ASTM E1739-95 (Reapproved 2010), Section 6.2 and 6.11; ASTM E2081-00 (2010), Section 6.5 and 6.17</p>	
F. CONCEPTUAL SITE MODEL (CSM)	21
<ul style="list-style-type: none"> 1. Provide a written and/or pictorial overview of the site. 2. Conduct the exposure pathway evaluation, inventory the exposure pathways evaluated, and determine the status of the exposure pathways as incomplete, potentially complete, or complete. 3. Identify response actions. 4. Update the CSM as additional information is gathered throughout the RBCA process. <p>Reference: CSMs: ASTM E2081-00 (2010), Section 3.2.52 and Section 6.3 (CSM)</p>	
G. TIER I EVALUATION	23
<ul style="list-style-type: none"> 1. Compare Site Conditions and Data with Tier 1 RBSL <ul style="list-style-type: none"> a. Identify potential exposure scenario(s), which are based on site assessment information. b. Identify primary and secondary sources, transport mechanisms, and exposure pathways. c. Identify receptors based on current/anticipated future use. Take into consideration land use restrictions and surrounding land use. d. Identify exposure scenarios where the concentrations of the CoC are above the RBSL. 2. Exposure Evaluation <ul style="list-style-type: none"> a. Characterize the sources and exposure pathways at the site. b. Compare the site conditions with Tier 1 RBSLs for each identified receptor. c. Identify potential corrective actions that reduce or eliminate exposure to the CoC. <p>Reference: Part 213, Section 21308a(1)(b)(xxii) and Section 21308a(1)(d); ASTM E1739-95 (2010), Section 5.5, 6.5 through Section 6.7</p>	
H. TIER II EVALUATION (Optional)	24
<ul style="list-style-type: none"> 1. If SSTLs are generated, provide all information and an explanation of the calculation of the SSTLs. 2. If relying upon alternative points of compliance, provide the reasoning and information supporting their selection. 3. Gather additional site assessment information to develop or identify corrective action goals, if warranted. 	

INITIAL ASSESSMENT REPORT TOC Page 4 of 5	PAGE(s)
H. <u>TIER II EVALUATION (Optional) (Continued)</u>	24
<ol style="list-style-type: none"> 4. Complete a Tier II evaluation on potentially complete exposure pathways. 5. Obtain site-specific hydrogeologic and geologic characteristics to aid in generation of the SSTLs. 6. Define the extent of CoC relative to the RBSL or SSTL, as appropriate. 7. Evaluate the changes in concentrations of CoC over time to determine if they are stable, increasing, and/or decreasing. 8. Determine the CoC measured at the point(s) of exposure, (i.e. in drinking water wells, sewers, surface water bodies). 9. Complete mathematical models to generate SSTLs based on the measured and predicted attenuation of the CoC away from the source area(s). 10. Compare the concentrations of the CoC, at the point(s) of compliance, to the RBSLs or SSTLs to determine if corrective action, interim remedial action, or further tier evaluation should be implemented. <p>Reference: Part 213, Section 21308a(1)(b)(xxii), and Section 21308a(1)(d); ASTM E1739-95 (2010), Section 5.6, Section 6.2, Section 6.7 thru Section 6.7.3, and Section 6.8 thru Section 6.83</p>	
I. <u>SITE CLASSIFICATION</u>	24
<ol style="list-style-type: none"> 1. Classify the site according to the Michigan site classification system which is based upon the classification process outlined in RBCA. <p>Reference: Part 213, Section 21308a(1)(c) and Section 21314a; ASTM E1739-95 (Reapproved 2010), Section 5.4, Section 6.3, and Table 1</p>	
J. <u>WORK PLAN and PROPOSED FOLLOW-UP ACTIVITIES</u>	25
<ol style="list-style-type: none"> 1. If off-site soil or ground water may be affected, report the steps that have been taken or will be taken including an implementation schedule to expeditiously secure access to off-site properties to complete the delineation of the extent of the release. 2. Include a work plan, including an implementation schedule for conducting a final assessment report, to determine the vertical and horizontal extent of the contamination that exceeds the applicable RBSL or applicable SSTL as necessary for preparation of the corrective action plan. <p>Reference: Part 213, Section 21308a(1)(b)(xxiv), and Section 21308a(1)(e)</p>	
K. <u>SITE MAPS</u>	26
<ol style="list-style-type: none"> 1. Provide site map(s) that includes all of the following: <ol style="list-style-type: none"> a. The location of each underground storage tank in the leaking underground storage tank system. b. The location of any other known current or former underground storage tank system on the site. c. The location of fill ports, dispensers, and other pertinent system components for known current or former underground storage tank systems on the site. d. Soil and ground water sample locations, if applicable. e. The locations of nearby buildings, roadways, paved areas, or other structures, aboveground storage tanks, underground storage tanks, buried utilities and conduits, suspected/confirmed sources, groundwater supply wells, and the location of human and environmental receptors that could be impacted by the CoC. 	

INITIAL ASSESSMENT REPORT TOC Page 5 of 5	PAGE(s)
K. <u>SITE MAPS (Continued)</u>	26
<ul style="list-style-type: none"> f. A map depicting the ground water elevation/ potentiometric surface. g. A map depicting the geologic cross section(s). h. A map of the dissolved plume map(s) with the CoC. i. A concentration map(s) showing the CoC in the appropriate environmental media. <p>Reference: Part 213, Section 21308a(1)(b)(vi)(A-E); ASTM E1739-95 (Reapproved 2010), Section 6.2.1.5, Section 6.11; and ASTM E2081 - 00 (2010), Section 6.17.18</p>	
L. <u>ANALYTICAL RESULTS and TABLES</u>	27
<ul style="list-style-type: none"> 1. Provide laboratory analytical data. 2. Provide a summary of the analytical data and the corrective action goals used. 3. Compare the concentrations of the CoC to the RBSLs or SSTLs, include site-specific hydrogeologic conditions (i.e., depth to ground water, static water elevation). Tabular form is preferred. <p>Reference: Part 213 Section 21308a(1)(b)(xxvi); ASTM E1739-95 (Reapproved 2010) Section 6.2.2.1 and Section 6.7</p>	



ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING



Initial Assessment Report

City of Ann Arbor Fuel Farm

2000 South Industrial Highway
Ann Arbor, Washtenaw County, MI

Facility ID # 00010237
Confirmed Release 0126-20

Prepared for:
City of Ann Arbor

February 22, 2021

Document Information

Prepared for	City of Ann Arbor
Project Name	City of Ann Arbor Fuel Farm
File Reference	Initial Assessment Report
Job Reference	Facility ID # 00010237
Date	February 22, 2021

Contact Information

ATC Group Services LLC
46555 Humboldt Dr. Suite 100
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Email: Gerard.debusschere@atcgs.com
www.atcgroupservices.com

Table of Contents

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F	CONCEPTUAL SITE MODEL.....	21
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List of Attachments

TABLES

FIGURES

SITE PHOTOLOG	Appendix A
SOIL BORING LOGS.....	Appendix B
LABORATORY ANALYTICAL REPORTS	Appendix C
STATIC GROUNDWATER ELEVATION DATA	Appendix D

A. **EXECUTIVE SUMMARY**

ATC Group Services LLC (ATC) was contracted by City of Ann Arbor (client) to provide environmental assessment with respect to the former underground storage tank system located at 2000 South Industrial Highway, Ann Arbor, Michigan (Site).

The location of the Site is shown on Figure 1 – Site Location Map. The underground storage tank (UST) basin, the Site building, property boundaries and utilities are shown on Figure 2 – Site Map with Utilities.

ATC was onsite to collect samples during the UST system removal completed by Matzak, Inc. (Matzak), City of Ann Arbor contractor, on June 29, 2020, however, based on the field screen results for the dispenser samples DB-1 and DB-2, a suspected release was reported to Michigan Department of Licensing and Regulatory Affairs Bureau of Fire Services (DLARA-BFS). The suspected release number given to this site was REL-0126-20. Matzak removed the USTs, dispensers, and piping on June 29, 2020. ATC collected two (2) dispenser and three (3) piping run soil samples, and one excavation water sample in lieu of tank end soil samples as the excavation was full of groundwater. The samples were stored on “wet” ice pending delivery under a chain-of-custody to Quantum Laboratories (Quantum, Wixom, Michigan) on June 29, 2020 to be analyzed¹ for benzene, ethylbenzene, toluene, xylenes (BTEX) and trimethylbenzene isomers (TMBs) by USEPA analytical method 5035/8260, and for polynuclear aromatic hydrocarbon compounds (PNAs) by USEPA method 8270.

Quantum reported the analytical results to ATC on July 6, 2020 and based on the detected contaminants at the dispenser area, ATC requested DLARA-BFS that the release be upgraded to a confirmed release.

ATC and Matzak returned to the site on July 15, 2020 to collect sidewall samples from open UST excavation, and to excavate the soils in the vicinity of the dispenser island. ATC collected eight (8) sidewall samples from the open UST excavation and four (4) sidewalls and one (1) excavation floor sample from the open dispenser excavation. The samples were stored on “wet” ice pending delivery under chain-of-custody to Quantum on July 15, 2020, to be analyzed for Michigan unleaded gasoline (ULG) parameters and PNAs.

ATC mobilized to the Site as follows to conduct this assessment:

- Subsurface Investigation: October 12, 2020;
- Groundwater Monitoring: October 19, 2020; and
- Groundwater Monitoring: January 11, 2021.

Subsurface Investigation

Six (6) groundwater monitoring wells (MW-1 through MW-6) were advanced at the site on October 12, 2020 by Alluvial Earth Inc. (Alluvial). The purpose of the wells was to acquire soil and groundwater data to determine the extent of petroleum contamination remaining on-site (if any).

The soil borings were advanced using a track mounted Geoprobe® capable of direct push or auger advancement. The soil types were logged and soil samples were

¹ As required by the DLARA UST Assessment form BFS-3881.

collected from zones of interest within each boring. The soil samples were packed on wet ice, and submitted to Quantum to be analyzed on October 12, 2020.

Monitoring wells MW-1 through MW-6 were installed as 2-inch diameter groundwater monitoring wells with a varying depths of 13- and 25-feet bg. The soil boring/monitoring well locations may be found on the site map as Figure 3, and soil boring/monitoring well logs may be found attached as Appendix B of this report.

Groundwater Sampling

Groundwater samples were collected from each monitoring well on October 19, 2020 and again on January 11, 2021. The groundwater samples were collected using low-flow (minimal drawdown) sampling procedures. Duplicate samples at the rate of one (1) duplicate for each ten (10) samples and a trip blank were collected for quality assurance/quality control (QA/QC) purposes. The groundwater sample locations are shown on Figure 4.

The groundwater samples were packed with “wet” ice and transported under chain of custody to Quantum to be analyzed as follows:

- MI-ULG by USEPA 5035/8260, and
- PNAs by USEPA 8270.

B. SITE INFORMATION

1. The property address.

2000 South Industrial Highway
Ann Arbor, Michigan 48104

2. The name of the business, if applicable.

City of Ann Arbor Fuel Farm

3. The name, address, and telephone number of a contact person for the owner or operator.

City of Ann Arbor
Fleet and Facilities Manager
Matthew J. Kulhanek
301 E. Huron, 6th Floor
Ann Arbor, Michigan 48104
734-794-6312

4. The time and date of release discovery.

A suspected release of gasoline was reported on June 29, 2020 based on the elevated field screen results for samples DB-1 and DB-2, and upgraded to a confirmed release (C-0126-20) on July 6, 2020 based on the analytical results.

5. The time and date the release was reported to the department.

A Confirmed Release Report was prepared and submitted to the BFS on July 6, 2020, via email.

6. A description of how the release was discovered.

ATC was onsite to collect samples during the UST system removal completed by the City of Ann Arbor's contractor, Matzak, on June 29, 2020, however, based on the field screen results for the dispenser samples DB-1 and DB-2, a suspected release was reported to DLARA-BFS. The suspected release number given to this site was REL-0126-20. Matzak removed the USTs, dispensers, and piping on June 29, 2020. ATC collected two (2) dispenser and three (3) piping run soil samples, and one (1) excavation water sample in lieu of tank end soil samples as the excavation was full of groundwater. The samples were stored on "wet" ice pending delivery under a chain-of-custody to Quantum on June 29, 2020 to be analyzed for BTEX and TMBs by USEPA analytical method 5035/8260, and for PNAs by USEPA method 8270.

Quantum reported the analytical results to ATC on July 6, 2020 and based on the detected contaminants at the dispenser area, ATC requested DLARA-BFS that the release be upgraded to a confirmed release.

7. A list of regulated substances the underground storage tank system contained when the release occurred.

The UST system contained Gasoline and Diesel.

8. A list of the regulated substances the underground storage tank system contained in the past.

The UST has always contained Gasoline and Diesel.

9. The component of the underground storage tank system from which the release occurred.

As noted in Section B(6) above, the dispenser samples had an elevated field screening on June 29, 2020 and was upgraded once the analytical was reported on July 6, 2020.

10. A review of historical records of site activities and past releases and potential source areas.

ATC reviewed the Michigan Department of Licensing and Regulatory Affairs (DLARA), Storage Tank Information Database (STID) and identified the following information:

<u>Facility Information</u>		<u>Owner Information</u>	
Facility ID:	0-010237	O/O Name:	City of Ann Arbor
Site Name:	Utilities Dept/Field Services	O/O Address:	PO Box 8647/100 N Fifth A
Site Address:	2000 S Industrial Hwy	City/State:	Ann Arbor, MI 48107
City/State:	Ann Arbor, MI 48104		

Tank ID	Capacity	Contents	Status	Install Date	Remove Date
UTK-028558-15	12000-Gallon	Gasoline	Removed from Ground	4/11/1979	9/5/1992
UTK-005192-15	12000-Gallon	Gasoline	Removed from Ground	4/10/1980	9/5/1992
UTK-095423-15	2000-Gallon	Gasoline	Removed from Ground	---	10/3/1992
UTK-008473-15	2000-Gallon	Diesel	Removed from Ground	---	10/3/1992
UTK-048783-15	1000-Gallon	Diesel	Removed from Ground	---	10/3/1992
UTK-094982-15	15000-Gallon	Gasoline	Removed from Ground	1/1/1992	6/29/2020
UTK-094986-15	15000-Gallon	Diesel	Removed from Ground	1/1/1992	6/29/2020

The STID indicates that the site reported two confirmed releases, the first (C-1594-92) on 9/14/1992, and the second (C-1524-92) on 9/15/1992. Both releases have been closed to regulatory criteria as of 6/16/1997.

C. INITIAL RESPONSE ACTIONS & INTERIM REMEDIAL ACTION

1. Was the underground storage tank system emptied to prevent further release?

The USTs were emptied in association with the UST system removal.

2. The extent to which all or part of the underground storage tank system or soil, or both, was removed.

The entire UST system was removed. A total of 160 cubic yards was removed from the site.

3. Results of initial response actions taken under section 21307(2).

The UST system was removed, monitoring wells was installed, and groundwater sampling occurred to delineate the contamination.

4. Identify the steps taken to mitigate immediate fire, explosion hazards, and acute vapor hazards.

See section C(6) below.

5. Description of the actions taken to prevent further release of the regulated substance into the environment including removing the regulated substance from the underground storage tank system that is causing the release.

See sections C(1) through C(3).

6. Describe the steps taken that were necessary and feasible to address unacceptable immediate risk regarding non-aqueous phase liquid (NAPL), using the process outlined by risk-based corrective action (RBCA).

Based on the elevated field screening from the dispenser samples taken on June 29, 2020, ATC submitted a "Suspected" release report on June 29, 2020. The analytical results from the samples were reported on July 6, 2020 and based on those results, ATC subsequently upgraded the "Suspected" release to "Confirmed" status on July 6, 2020.

The area where the dispensers were located was excavated by Matzak on July 15, 2020 to a depth of 10-feet below grade, and the impacted soil was transported and disposed of at Woodland Meadows Landfill.

Six (6) soil borings were advanced using a Geoprobe® on October 12, 2020, and all borings were subsequently converted to groundwater monitoring wells (soil boring/monitoring well logs may be found in Appendix B). Soil samples were collected continuously and field screened with a photo-ionization detector (PID). A total of twelve (12) soil samples were collected and submitted for laboratory analysis. Following the advancement of the soil borings, six (6) two-inch diameter poly-vinyl chloride (PVC) groundwater monitoring wells were constructed at the following locations: MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6.

The wells were gauged, and groundwater samples were collected from each well on October 19, 2020 and again on January 11, 2021. The groundwater samples were collected using low-flow (minimal drawdown) sampling procedures. Duplicate samples at the rate of one (1) duplicate for each ten (10) samples and a trip blank were collected for quality assurance/quality control (QA/QC) purposes. Mobile LNAPL was not detected in any monitoring well.

7. Amount of soil excavated, contained, treated, or disposed, above the water table that was visibly contaminated and likely to cause a fire hazard.

160 cubic yards of soil was removed during the UST system removal and disposed at Waste Management's Woodland Meadows in Wayne, Michigan.

8. Any other actions taken to abate an immediate threat to public health, safety, or welfare, or the environment.

Other than the activities described above, no other actions were taken to abate an immediate threat to public health, safety, or welfare, or the environment as there was no immediate threat.

9. A description of what other steps were taken to prevent further migration of the regulated substance into the soil or ground water.

Currently, groundwater sampling to monitor any delineation of contamination.

10. Whether toxic or explosive vapors or migrating or mobile NAPL was found and what steps were taken to evaluate those conditions and the current levels of toxic or explosive vapors or migrating or mobile NAPL in nearby structures.

Soil and groundwater samples were collected and analyzed for MI-ULG and PNAs. In addition, a PID was used to field screen the soil samples during the subsurface investigation. Based on field observations and analytical data, migrating, mobile, and/or residual LNAPL were not detected. The laboratory analyses for the soil samples resulted in "Non-Detect²" for all analytes in all samples tested, with the exception of soil samples MW-1 (6-7'), MW-5 (7-8'), and MW-6 (4-5'), which is discussed further in previous Sections A and B(6) of this report. The laboratory analyses for the groundwater samples resulted in "Non-Detect¹" for all analytes in the samples tested, with the exception of groundwater sample MW-6, which is discussed further in previous Sections A and B(6).

11. Data from analytical testing of soil and ground water samples.

Please refer to **Figures 3, 4, 5, 6, 7A, 7B, 8A, 8B, and 8C, in Appendix A**, as well as **Tables 1 and 2 in Appendix B**. Laboratory analytical reports are provided in **Appendix C**.

² "Non-Detect" indicates that the parameter was not detectable at concentrations exceeding the EGLE/RRD recommended detection levels (RDLs).

D. MOBILE OR MIGRATING NAPL INVESTIGATION

1. A description of the mobile or migrating NAPL investigation and evaluation conducted pursuant to section 21307(2)(c).

On October 12, 2020, six (6) soil borings were advanced to evaluate the confirmed release (see Sections C(6) and C(10) above). Based on the field observations and analytical data, there is no migrating, mobile, or residual LNAPL.

2. A description of NAPL removal, if NAPL is recoverable and removal is necessary to abate an unacceptable risk pursuant to the provisions outlined in RBCA.

Please refer to Section D.1 above.

3. A description of the actions taken to remove any NAPL.

Please refer to Section D.1 above.

4. The name of the person or persons responsible for implementing the NAPL removal measures.

Please refer to Section D.1 above.

5. The estimated quantity, type, and thickness of NAPL observed or measured in wells, boreholes, and excavations.

Please refer to Section D.1 above.

6. The type of NAPL recovery system used.

Please refer to Section D.1 above.

7. Discharge location, if any discharge will take place on-site or off-site during the recovery operation.

Please refer to Section D.1 above.

8. The type of treatment applied to, and the effluent quality expected from, any discharge.

Please refer to Section D.1 above.

9. The steps that have been or are being taken to obtain necessary permits for any discharge.

Please refer to Section D.1 above.

10. The quantity and disposition of the recovered NAPL.

Please refer to Section D.1 above.

E. INITIAL SITE ASSESSMENT

1. Describe the site.

The property is owned by City of Ann Arbor and is currently operated as a former fueling area for city owned vehicles.

2. Provide a summary of the site ownership and use; historical records of site activities and past releases; and potential source areas.

Historically, the site has operated as a fueling facility for the City of Ann Arbor. Based on a review of the LARA/BFS Storage Tank Information Database (STID), two confirmed releases (C-1594-92, C-1524-92) have been closed as of 6/16/1997.

3. Provide a summary of the current and completed site activities.

ATC Group Services LLC (ATC) was contracted by City of Ann Arbor (client) to provide environmental assessment with respect to the former underground storage tank system located at 2000 South Industrial Highway, Ann Arbor, Michigan (Site).

The location of the Site is shown on Figure 1 – Site Location Map. The underground storage tank (UST) basin, the Site building, property boundaries and utilities are shown on Figure 2 – Site Map with Utilities.

ATC was onsite to collect samples during the UST system removal completed by Matzak, the City of Ann Arbor's excavation contractor, on June 29, 2020, however, based on the field screen results for the dispenser samples DB-1 and DB-2, a suspected release was reported to DLARA-BFS. The suspected release number given to this site was REL-0126-20. Matzak removed the USTs, dispensers, and piping on June 29, 2020. ATC collected two (2) dispenser and three (3) piping run soil samples, and one (1) excavation water sample in lieu of tank end soil samples as the excavation was full of groundwater. The samples were stored on "wet" ice pending delivery under chain-of-custody to Quantum on June 29, 2020 to be analyzed for BTEX and TMBs by USEPA analytical method 5035/8260, and for PNAs by USEPA method 8270.

Quantum reported the analytical results to ATC on July 6, 2020 and based on the detected contaminants at the dispenser area, ATC requested DLARA-BFS that the release be upgraded to a confirmed release.

ATC and Matzak returned to the site on July 15, 2020 to collect sidewall samples from open UST excavation, and to excavate the soils in the vicinity of the dispenser island. ATC collected eight (8) sidewall samples from the open UST excavation and four (4) sidewalls and one (1) excavation floor sample from the open dispenser excavation. The samples were stored on "wet" ice pending delivery under chain-of-custody to Quantum on July 15, 2020, to be analyzed for Michigan Unleaded Gasoline (MI-ULG) parameters and PNAs.

ATC mobilized to the Site as follows to conduct this assessment:

- Subsurface Investigation: October 12, 2020;
- Groundwater Monitoring: October 19, 2020; and
- Groundwater Monitoring: January 11, 2021.

Subsurface Investigation

Six (6) groundwater monitoring wells (MW-1 through MW-6) were advanced at the site on October 12, 2020 by Alluvial Earth Inc. (Alluvial). The purpose of the wells was to acquire soil and groundwater data to determine the extent of petroleum contamination remaining on-site (if any).

The soil borings were advanced using a track mounted Geoprobe® capable of direct push or auger advancement. The soil types were logged and soil samples were collected from zones of interest within each boring. The soil samples were packed on wet ice, and submitted to Quantum to be analyzed on October 12, 2020.

Monitoring wells MW-1 through MW-6 were installed as 2-inch diameter groundwater monitoring wells with a varying depths of 13- and 25-feet bg. The soil boring/monitoring well locations may be found on the site map as Figure 3, and soil boring/monitoring well logs may be found attached as Appendix B of this report.

Groundwater Sampling

Groundwater samples were collected from each monitoring well on October 19, 2020 and again on January 11, 2021. The groundwater samples were collected using low-flow (minimal drawdown) sampling procedures. Duplicate samples at the rate of one (1) duplicate for each ten (10) samples and a trip blank were collected for quality assurance/quality control (QA/QC) purposes. The groundwater sample locations are shown on Figure 4.

The groundwater samples were packed with “wet” ice and transported under chain of custody to Quantum to be analyzed as follows:

- MI-ULG by USEPA 5035/8260, and
- PNAs by USEPA 8270.

Analytical Results

The UST removal soil samples that were collected on June 29, 2020, the samples DP-1, DP-2, Stock Pile 2 which identified selected unleaded gasoline (ULG) parameters and PNAs above laboratory detection limits. The samples DP-1 and DP-2 soil samples were above applicable Residential RBSLs; however, these samples have been excavated and replaced with SW-2 and SW-4. The groundwater samples from June 29, 2020, Tank Bottom sample identified ULG and PNAs above laboratory detection limits but below applicable Residential RBSLs. The soil boring samples that were collected on October 12, 2020, MW-1, MW-5, and MW-6 which identified selected ULG and PNAs parameter were above laboratory detection limits but below Residential RBSLs. The groundwater samples from October 19, 2020, MW-5 sample identified ULG parameters above laboratory detection limits but below applicable Residential RBSLs. The remaining soil and groundwater samples have resulted in “Non-Detect”.

4. Provide an estimate of the horizontal and vertical extent of on-site and off-site soil contamination exceeding the applicable risk-based screening level (RBSL) for Tier I sites or the applicable site specific target level (SSTL) for Tier II or Tier III sites.

Based on the current soil conditions, the release appears to be confined to the vicinity of the Dispenser area.

5. Estimate the amount of contaminated soil in the vadose zone.

ATC has estimated that less than 100.5 cubic yards of residually impacted soil to 3 feet below ground surface (bgs).

6. Describe the steps have been taken or will be taken, including an implementation schedule, to expeditiously secure access to off-site properties to complete the delineation of the extent of the release if the contamination exceeds the applicable RBSLs or the applicable SSTLs.

At the present time, based on the analytical data, it does not appear to be necessary to obtain offsite access.

7. Describe and depict the vertical distribution of contaminants.

As noted in section E(3),

The UST removal soil samples that were collected on June 29, 2020, the samples DP-1, DP-2, Stock Pile 2 which identified selected unleaded gasoline (ULG) parameters and PNAs above laboratory detection limits. The samples DP-1 and DP-2 soil samples were above applicable Residential RBSLs; however, the samples were excavated and replaced with SW-2 and SW-4. The groundwater samples from June 29, 2020, Tank Bottom sample identified ULG and PNAs above laboratory detection limits but below applicable Residential RBSLs. The soil boring samples that were collected on October 12, 2020, MW-1, MW-5, and MW-6 which identified selected ULG and PNAs parameter were above laboratory detection limits but below Residential RBSLs. The groundwater samples from October 19, 2020, MW-5 sample identified ULG parameters above laboratory detection limits but below applicable Residential RBSLs. The remaining soil and groundwater samples have resulted in "Non-Detect". Please refer to **Table 1 and 2, in Appendix A**.

Also noted in section E(5), ATC has estimated that less than 100.5 cubic yards of residually impacted fill material is present on top of the UST in the vicinity of the vent and fill port.

8. Identify any other contamination on the site not resulting from the release and the source.

There does not appear to be any contamination at the site not resulting from the current release.

9. Identify the chemicals of concern (CoC), location of major sources of the CoC, and location of maximum concentrations of CoC in soil, ground water, air, soil gas, surface water, and sediments.

Please refer to **Figures 3, 4, 5, 6, 7A, 7B, 8A, 8B, and 8C, in Appendix A** as well as **Tables 1 and 2, in Appendix B**.

10. Determine the regional hydrogeologic and geologic characteristics (i.e., depth to ground water, aquifer thickness, flow rate, direction, gradient, description of confining units, and ground water quality).

ATC reviewed available resources to determine the geological setting of the site. Reference sources include *Bedrock Geology of Michigan* (Segal, T.E., and Wilson, S.E., 1987), *Quaternary Geology of Southern Michigan* (Farrand, W.R. and Bell, D.L., 1982), *Soil Survey of Washtenaw County Michigan*, USDA, 1972, *Stratigraphic Cross Sections of Michigan* (Lilienthal, R.T., 1978), *Drift Thickness Map* (Akers, J., 1938) and the *Ann Arbor East, Michigan Topographic Map* (1969, and the 1969, Photorevised 2019).

The Site is located in the NW/4 of the NE/4 of the NE/4 of Section 4, T3S, R6E, Ann Arbor, Washtenaw County, Michigan. Review of the United States Geological Service (USGS) 7.5 Minute Ann Arbor East, Michigan Topographic Map indicates that the Site is located at an elevation of approximately 820 feet above mean sea level with the topography sloping gently to the east. A copy of the topographic map is included in Appendix A.

The surface geology in the area of the subject property, according to the Quaternary Geology of Southern Michigan (Farrand and Bell), consists primarily of glacial sediments that form at the margin or edge of the glacier that is composed of a sediment of mixed fine textured till.

Bedrock in the area of the subject property consists of the Coldwater Shale of the Paleozoic Mississippian System. According to Lilienthal, the Saginaw Formation consists predominantly of gray to bluish gray shale with clay minerals consisting chiefly of illite and kaolinite with minor chlorite. The depth to bedrock in the area of the subject property is estimated to be 50-75 feet below grade.

According to the USDA Web Soil Survey, the soils at the subject property consist of Matherton sandy loam, 0 to 4 percent slopes. The typical profile is sandy loam followed by gravelly sandy clay loam.

Estimated groundwater levels and/or flow direction(s) may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations. Based on gauging data obtained on October 19, 2020 and January 11, 2021, the average depth was as follows:

Static Groundwater Elevation Data					
Well ID	TOC	10/19/2020	1/11/2021	Average DTW	Static Elev.
MW-1	825.94	3.41	2.65	3.03	822.91
MW-2	830.05	6.60	5.76	6.18	823.87
MW-3	829.91	6.29	5.32	5.82	824.11
MW-4	830.72	6.60	5.46	6.03	824.69
MW-5	829.53	5.75	5.21	5.48	824.05
MW-6	826.28	4.84	4.25	4.55	821.35

ATC calculated the hydraulic gradient and flow direction for the October 19, 2020 and January 11, 2021 sampling events.

Date	Hydraulic Gradient	Flow Direction
10/19/2020	1.74E-02	NE
1/11/2021	2.32E-02	NE
Average	2.03E-02	NE

The static groundwater elevation data may be found in Appendix D – Static Groundwater Elevation Data.

Hydraulic conductivity has not been measured at the site and likely varies significantly between the clay and the sand fill. Literature values for sand were obtained because this is likely the primary medium for groundwater migration. The hydraulic conductivity

for sand ranges from 10^{-4} centimeters per second (cm/sec) for fine grained sand to 10^{-2} cm/sec for well sorted sands (*Applied Hydrogeology*, C.W. Fetter, University of Wisconsin – Oshkosh, Merrill Publishing Company, 1988), with the median value of 10^{-3} cm/sec (2.835 feet per day).

Using groundwater elevation data from January 11, 2021, and soil moisture observations noted during the October 12, 2020, soil boring advancement activities; the thickness of the hydraulic unit present at the site is 5 to 10 feet.

The average linear groundwater velocity was calculated using:

$$V = (Ki / \eta)$$

Where:

V = Flow Rate

K = Hydraulic Conductivity

i = Horizontal Gradient

η = Effective porosity

Using the January 11, 2021, horizontal groundwater gradient of 0.02319 ft/ft (as calculated below), an estimated value for the effective porosity of 0.25 cm³ void/cm³ of soil, and the average measured hydraulic conductivity for the water bearing unit of 10^{-3} cm/sec, the average linear groundwater velocity of the water bearing unit was calculated to be 0.783 feet per day or 163.1 feet per year.

On January 11, 2021, the apparent direction of groundwater flow at the site appeared to be to the northeast. The January 11, 2021, groundwater potentiometric surface map is presented on **Figure 5, Appendix A**.

Based on groundwater elevation data from January 11, 2021, the horizontal groundwater gradient (i) between monitoring wells MW-5 and MW-6 was calculated to be 0.02319 ft/ft. The horizontal gradient was calculated as follows:

$$i = (H2 - H1) / L$$

Where:

i = horizontal groundwater gradient

H2 = 824.05 feet

H1 = 821.35 feet

L = 14.50 feet (distance between MW-5 and MW-6)

Based on field observations of the soils at the site, the depth of the hydraulic unit ranges from 5 to 10 feet bgs on-site.

11. Identify potential migration and exposure pathways and receptors.

The impacted area was excavated from the source area and removed from site, therefore, there are no potential migration, pathway, or receptors. Groundwater samples have not indicated any impacted migration however, there is the potential of migration based on the groundwater flow rate.

12. Determine the location of humans and the environmental receptors that could be impacted (point(s) of exposure).

Human receptors associated with the drinking water are represented by potential, future, residential use of the property. However, the City of Ann Arbor supplies public

drinking water to the Site. Therefore, it is unlikely that a private potable well would be installed on the Site in the future.

13. Identify the location of nearby surface waters, wetlands, nearby underground sewers, and utility lines.

Please refer to **Figures 1 and 2, Appendix A.**

14. Evaluate the impacts to environmental receptors.

The nearest surface water receptor is an unnamed pond and is located approximately 0.43 miles west of the site. This distance is beyond the estimated two-year groundwater travel time for the site of 326.20 feet and the groundwater flow is northeast. Therefore, the potential to impact the environmental receptor is not present.

15. Provide a summary of the analytical data and the appropriate RBSL or SSTL used.

Please refer to **Tables 1, 2, and Appendix B.**

16. Provide a summary of the ecological assessment and beneficial uses.

An ecological assessment is not relevant for use in association with this release.

17. Provide site photos.

Please refer to **Appendix E.**

18. Conduct a pathway analysis by identifying potentially significant transport and human and ecological exposure pathways (i.e., ground water transport, vapor migration through soils and utilities).

Please refer to Sections E11 and E12 above.

19. Describe the current and reasonably anticipated future use of the site and surrounding land, including ground water resources, surface water, and relevant ecological receptors and habitats.

The current and future use of the site is as a City of Ann Arbor building. The site is bordered to the north, east, west, and south by commercial properties. Drinking water for the subject site and immediate surrounding area is provided by the City of Ann Arbor. The nearest surface water receptor is an unnamed pond located approximately 0.43 miles west of the site. No other relevant ecological receptors or habitats have been identified at this time.

20. If appropriate, calculate an appropriate upper confidence limit for the CoC.

Not applicable.

21. Determine background concentrations of CoC in environment.

Not applicable.

F. CONCEPTUAL SITE MODEL (CSM)

The CSM provides a written and/or pictorial overall understanding of the site. It may be used as a template to conduct the exposure pathway evaluation, inventory the exposure pathways evaluated, and determine the status of the exposure pathways as incomplete, potentially complete, or complete.

Potential response actions are identified.

The CSM should be updated as additional information is gathered throughout the RBCA process.

Reference: CSMs: ASTM E2081-00 (2010) Section 3.2.52 and Section 6.3 (CSM)

Land Use:	Commercial
Soil Type	Site lithology generally consists of fill material consisting of sand, gravel, clay, concrete and brick debris from depths varying from 5 to 13 feet bgs with native materials consisting of sand, silty-sand, and clay to the maximum depth investigated of 25 feet.
Average Depth to Water	4.77 feet btoc. (January 11, 2021)
Aquifer Condition	Unknown
Depth to On-site Utilities	The depths of the utilities are unknown but the locations are located on Figure 2.
Groundwater Flow Direction	NE (January 11, 2021)
Groundwater Gradient	0. 02319 ft/ft.
Aquifer K	The hydraulic conductivity for fill sand ranges from 10^{-4} cm/sec for fine grain sand to 10^{-2} cm/sec for well sorted sands (<i>Applied Hydrogeology</i> , C.W. Fetter, University of Wisconsin – Oshkosh, Merrill Publishing Company, 1988), with the median value of 10^{-3} cm/sec (2.835 feet per day).
Release Substance	Gasoline/Diesel
Release Location	Dispenser Area
Groundwater Data	Groundwater samples collected on October 19, 2020 and January 11, 2021, from the monitoring wells were not greater than the applicable EGLE cleanup criteria for kerosene CoCs.
Soil Data	Soil samples collected from DB-1 and DB-2 were greater than the Part 213 DWP and GSIP RBSLs for soil. However, the samples were excavated and the soil contamination is delineated before it enters the building or off site.
Compliance Point(s)	Soil impacts, attributed from the current release, are horizontally and vertically delineated.

G. TIER I EVALUATION

1. Compare Site Conditions and Data with Tier I RBSL

A. Identify potential exposure scenario(s), which are based on site assessment information.

Please refer to section E(11) and E(12).

B. Identify primary and secondary sources, transport mechanisms, and exposure pathways.

The primary source of release C-0126-20 was the under the dispensers. Transport mechanisms at the site are represented by drinking water and soil leaching into groundwater of VOCs in the subsurface soil. The only relevant exposure pathways that exist for the current open release are drinking water and GSI.

C. Identify receptors based on current/anticipated future use. Take into consideration land use restrictions and surrounding land use.

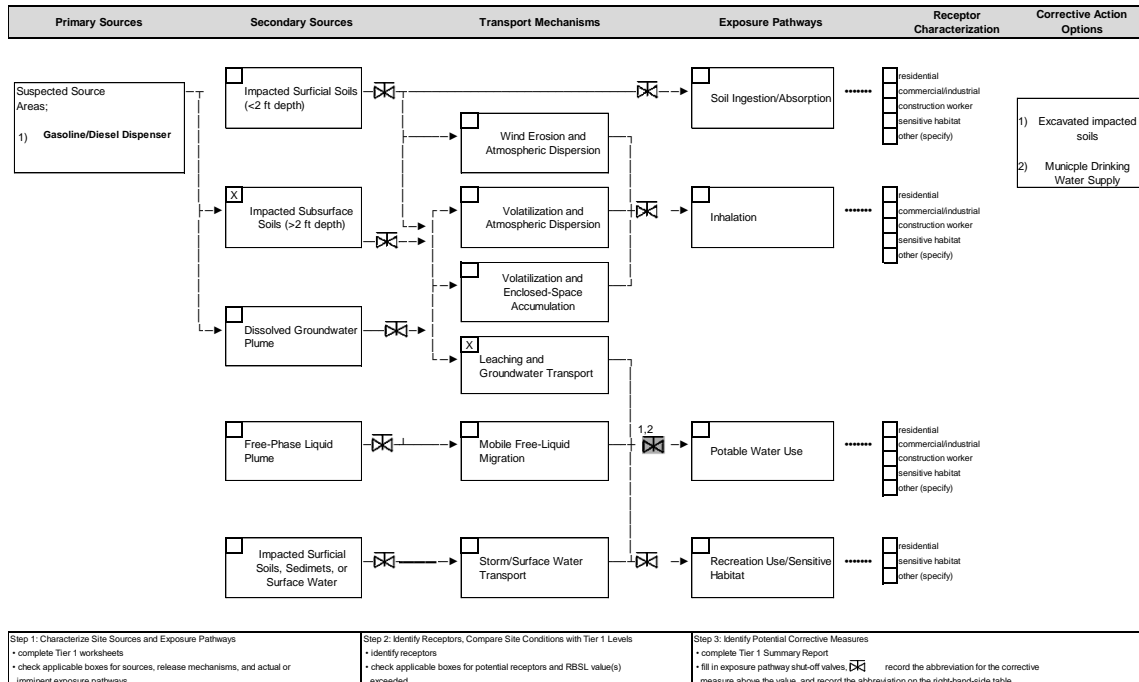
Refer to sections E(11) and E(12).

D. Identify exposure scenarios where the concentrations of the CoC are above the RBSLs.

Refer to sections E(11) and E(12).

2. Exposure Evaluation Flowchart

1. Characterize the sources and exposure pathways at the site.
2. Compare the site conditions with Tier 1 RBSLs for each identified receptor.
3. Identify potential corrective actions that reduce or eliminate exposure to the CoC.



* - This figure is based on Figure 2 of ASTM E 1739-95

H. TIER II EVALUATION

- 1. The Tier II evaluation allows the user the option to generate SSTLs that are used at site specific point(s) of compliance and in the source area for the CoC.**

A site-specific Tier II evaluation was not completed at the site.

- 2. Additional site assessment information should be gathered to develop or identify corrective action goals, if warranted.**

See section H.1.

- 3. A Tier II evaluation should only be conducted on complete and potentially complete exposure pathways.**

See section H.1.

- 4. Obtain site-specific hydrogeologic and geologic characteristics to aid in generation of the SSTLs.**

See section H.1.

- 5. Define the extent of CoC relative to the RBSL or SSTL, as appropriate**

See section H.1.

- 6. Evaluate the changes in concentrations of CoC over time to determine if they are stable, increasing, and/or decreasing.**

See section H.1.

- 7. Determine the CoC measured at the point(s) of exposure, i.e. in drinking water wells, sewers, surface water bodies.**

See section H.1.

- 8. Complete mathematical models to generate SSTLs based on the measured and predicted attenuation of the CoC away from the source area(s).**

See section H.1.

- 9. Compare the concentrations of the CoC at the point(s) of compliance to the RBSLs or SSTLs to determine if corrective action, interim remedial action or further tier evaluation should be implemented.**

See section H.1.

I. SITE CLASSIFICATION

Site classification should be consistent with the process outlined in RBCA.

Sites are classified based on the urgency for initial response action, identified during the site assessment process.

Site classification and initial response actions are based on current and projected risk to human health and the environment.

Initial response actions should be taken to address the risks posed to human health and the environment.

Sites should be reclassified as initial response actions and corrective actions are taken which abate the risks to human health and the environment, or as new information becomes available.

Table 1, Example Site Classification and Initial Response Actions, may be used as an example for site classification.

References: Part 213 Section 21308a(1)(c) and Section 21314a; ASTM E1739-95 (Reapproved 2010) Section 5.4, 6.3, and Table 1

Based on the RRD, Part 213, Policy and Procedure #RRD-21, this site is currently a Class 4 site: No demonstrable long term risks. All chemicals of concern are below all RBSLs or all appropriate institutional controls/deed restrictions are in place to prevent exposure to the contaminants of concerns. This site is classified as Class 4 based on concentrations of contaminants that were excavated and the horizontal and vertical samples were all below RBSLs.

J. WORK PLAN AND PROPOSED FOLLOW-UP ACTIVITIES

1. **If off-site soil or ground water may be affected, report the steps that have been taken or will be taken including an implementation schedule to expeditiously secure access to off-site properties to complete the delineation of the extent of the release.**

Delineation of the current release has been achieved. Additional off-site monitoring wells are not required.

2. **Include a work plan, including an implementation schedule for conducting a final assessment report, to determine the vertical and horizontal extent of the contamination that exceeds the applicable RBSL or applicable SSTL as necessary for preparation of the corrective action plan.**

Task	Anticipated Completion Date
Conduct groundwater sampling	3-4th Quarter of 2021
Submit a Final Assessment Report or Closure Report to EGLE	4 th Quarter of 2021

K. SITE MAPS

- 1. Provide site map(s) that includes all of the following:**
 - A. The location of each underground storage tank in the leaking underground storage tank system.**
Refer to **Figure 2, Figures Appendix.**
 - B. The location of any other known current or former underground storage tank system on the site.**
Refer to **Figure 2, Figures Appendix.**
 - C. The location of fill ports, dispensers, and other pertinent system components for known current or former underground storage tank systems on the site.**
Refer to **Figure 2, Figures Appendix.**
 - D. Soil and ground water sample locations, if applicable.**
Refer to **Figures 3, 4, 5, 6 in Figures Appendix.**
 - E. The locations of nearby buildings, roadways, paved areas, or other structures, aboveground storage tanks, underground storage tanks, buried utilities and conduits, suspected/confirmed sources, groundwater supply wells, and the location of human and environmental receptors that could be impacted by the CoC.**
Refer to **Figures 1 and 2, Figures Appendix.**
 - F. A map depicting the ground water elevation/ potentiometric surface.**
Refer to **Figures 7A and 7B, Figures Appendix.**
 - G. A map depicting the geologic cross section(s).**
Refer to **Figures 8A, 8B and 8C, Figures Appendix.**
 - H. A map of the dissolved plume map(s) with the CoC.**
Refer to **Figures 5, 6, 8B and 8C, Figures Appendix.**
 - I. A concentration map(s) showing the CoC in the appropriate environmental media.**
Refer to **Figures 8B and 8C, Figures Appendix.**

L. ANALYTICAL RESULTS & TABLES

- 1. Provide laboratory analytical data.**
Laboratory analytical reports are provided in **Appendix C**.
- 2. Provide a summary of the analytical data and the corrective action goals used.**
Refer to **Tables 1 and 2, Tables Appendix**.
- 3. Compare the concentrations of the CoC to the RBSLs or SSTLs, include site-specific hydrogeologic conditions (i.e. depth to ground water, static water elevation). Tabular form is preferred.**
Refer to **Tables 1 and 2 in Tables Appendix, Appendix B and Appendix D**.

Tables

TABLE 1 - ANALYTICAL RESULTS: SOIL (10/12/2020)
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237

Laboratory ID: Sample ID: Sample Depth: Sample Date: Sample Fate:			Residential Drinking Water Protection Criteria	GW/SW Interface Protection Criteria	Residential Direct Contact Criteria & RBSLs	11164-2	11164-3	11164-4	11164-5	11164-6	11163-1	11163-2	11180-1	11180-2	11180-3	11180-4	11180-5	11180-6
Units	CAS No.	P-1				P-2	P-3	DB-1	DB-2	Stock Pile 1	Stock Pile 2	UST SW-1	UST SW-2	UST SW-3	UST SW-4	UST SW-5	UST SW-6	
		2.5'				2.5'	2.5'	3'	3'	NA	NA	8'	8'	8'	8'	8'	8'	
		6/29/20				6/29/20	6/29/20	6/29/20	6/29/20	6/29/20	6/29/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	
		In Place	In Place	In Place	Landfill	Landfill	Landfill	Landfill	In Place	In Place	In Place	In Place	In Place	In Place				
Volatiles, VOCs, ug/Kg																		
Benzene	ug/kg	71-43-2	100	4,000	1.80E+05	< 50	< 50	< 50	14,200	16,400	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylbenzene	ug/kg	100-41-4	1,500	360	2.20E+07	< 50	< 50	< 50	247,000	224,000	< 50	172	< 50	< 50	< 50	< 50	< 50	< 50
Toluene	ug/kg	108-88-3	16,000	5,400	5.00E+07	< 100	< 100	< 100	566,000	541,000	< 100	784	< 100	< 100	< 100	< 100	< 100	< 100
Xylenes	ug/kg	1330-20-7	5,600	980	4.10E+08	< 150	< 150	< 150	2,440,000	1,840,000	< 150	967	< 150	< 150	< 150	< 150	< 150	< 150
1,2-Dibromoethane (EDB)	ug/kg	106-93-4	20 (M); 1.0	110	92								< 20	< 20	< 20	< 20	< 20	< 20
1,2-Dichloroethane (DCA)	ug/kg	107-06-2	100	7,200	91,000								< 50	< 50	< 50	< 50	< 50	< 50
Methyl-tert-butyl ether (MTBE)	ug/kg	1634-04-4	800	1.40E+05	1.50E+06								< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	8.10E+06								< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	ug/kg	91-20-3	35,000	730	1.60E+07								< 250	< 250	< 250	< 250	< 250	< 250
1,2,4-Trimethylbenzene	ug/kg	95-63-6	2,100	570	3.20E+07								< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene	ug/kg	108-67-8	1,800	1,100	3.20E+07								< 100	< 100	< 100	< 100	< 100	< 100
Semivolatiles, PNAs, ug/Kg																		
Acenaphthene	ug/kg	83-32-9	3.00E+05	8,700	4.10E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acenaphthylene	ug/kg	208-96-8	5,900	ID	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	ug/kg	120-12-7	41,000	ID	2.30E+08	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene	ug/kg	56-55-3	NLL	NLL	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene	ug/kg	205-99-2	NLL	NLL	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	ug/kg	207-08-9	NLL	NLL	2.00E+05	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	ug/kg	191-24-2	NLL	NLL	2.50E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene	ug/kg	50-32-8	NLL	NLL	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene	ug/kg	218-01-9	NLL	NLL	2.00E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene	ug/kg	53-70-3	NLL	NLL	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	ug/kg	206-44-0	7.30E+05	5,500	4.60E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene	ug/kg	86-73-7	3.90E+05	5,300	2.70E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	ug/kg	193-39-5	NLL	NLL	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	8.10E+06	< 330	< 330	< 330	18,800	3,150	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	ug/kg	91-20-3	35,000	730	1.60E+07	< 330	< 330	< 330	5,180	784	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Phenanthrene	ug/kg	85-01-8	56,000	2,100	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	ug/kg	129-00-0	4.80E+05	ID	2.90E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330

800 Red shading indicates analyte exceeds unrestricted Part 213 RBSL
200 Clear shading indicates analyte identified below most restrictive RBSL
<100 Green shading indicates analyte "not Detected" above TDL
NLL EGLE has determined analyte is not likely to leach from soil to groundwater
ID/NA EGLE has not developed criteria for this pathway

TABLE 1 - ANALYTICAL RESULTS: SOIL (10/12/2020)
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237

Laboratory ID: Sample ID: Sample Depth: Sample Date: Sample Fate:			Residential Drinking Water Protection Criteria	GW/SW Interface Protection Criteria	Residential Direct Contact Criteria & RBSLs	11180-7	11180-8	11180-9	11180-10	11180-11	11180-12	11180-13	11180-14	11180-15	11180-16	11313-1	11313-2	11313-3
Units	CAS No.	UST SW-7				UST SW-8	Dup-1	Trip Blank	Dis SW-1	Dis SW-2	Dis SW-3	Dis SW-4	F-1	Dup-2	MW-1	MW-1	MW-2	
		8'				8'	UST SW-8	NA	4'	4'	4'	4'	10'	Dis SW-1	6-7'	19-20'	7-8'	
		7/15/20				7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	10/12/20	10/12/20	10/12/20	
		In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place				
Volatiles, VOCs, ug/Kg																		
Benzene	ug/kg	71-43-2	100	4,000	1.80E+05	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylbenzene	ug/kg	100-41-4	1,500	360	2.20E+07	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	74	< 50	< 50
Toluene	ug/kg	108-88-3	16,000	5,400	5.00E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Xylenes	ug/kg	1330-20-7	5,600	980	4.10E+08	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	378	< 150	< 150
1,2-Dibromoethane (EDB)	ug/kg	106-93-4	20 (M); 1.0	110	92	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
1,2-Dichloroethane (DCA)	ug/kg	107-06-2	100	7,200	91,000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Methyl-tert-butyl ether (MTBE)	ug/kg	1634-04-4	800	1.40E+05	1.50E+06	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	8.10E+06	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	ug/kg	91-20-3	35,000	730	1.60E+07	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2,4-Trimethylbenzene	ug/kg	95-63-6	2,100	570	3.20E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	275	< 100	< 100
1,3,5-Trimethylbenzene	ug/kg	108-67-8	1,800	1,100	3.20E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Semivolatiles, PNAs, ug/Kg																		
Acenaphthene	ug/kg	83-32-9	3.00E+05	8,700	4.10E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acenaphthylene	ug/kg	208-96-8	5,900	ID	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	ug/kg	120-12-7	41,000	ID	2.30E+08	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene	ug/kg	56-55-3	NLL	NLL	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene	ug/kg	205-99-2	NLL	NLL	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	ug/kg	207-08-9	NLL	NLL	2.00E+05	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	ug/kg	191-24-2	NLL	NLL	2.50E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene	ug/kg	50-32-8	NLL	NLL	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene	ug/kg	218-01-9	NLL	NLL	2.00E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene	ug/kg	53-70-3	NLL	NLL	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	ug/kg	206-44-0	7.30E+05	5,500	4.60E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene	ug/kg	86-73-7	3.90E+05	5,300	2.70E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	ug/kg	193-39-5	NLL	NLL	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	8.10E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	ug/kg	91-20-3	35,000	730	1.60E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Phenanthrene	ug/kg	85-01-8	56,000	2,100	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	ug/kg	129-00-0	4.80E+05	ID	2.90E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330

800 Red shading indicates analyte exceeds unrestricted Part 213 RBSL
200 Clear shading indicates analyte identified below most restrictive RBSL
<100 Green shading indicates analyte "not Detected" above TDL
NLL EGLE has determined analyte is not likely to leach from soil to groundwater
ID/NA EGLE has not developed criteria for this pathway

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CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237

Laboratory ID: Sample ID: Sample Depth: Sample Date: Sample Fate:			Residential Drinking Water Protection Criteria	GW/SW Interface Protection Criteria	Residential Direct Contact Criteria & RBSLs	11313-4	11313-5	11313-6	11313-7	11313-8	11313-9	11313-10	11313-11	11313-12
Volatiles, VOCs, ug/Kg	Units	CAS No.				MW-2	MW-4	MW-4	MW-5	MW-5	Dup-1	MW-6	MW-6	Dup-2
						24-25'	5-6'	19-20'	7-8'	19-20'		4-5'	14-15'	
						10/12/20	10/12/20	10/12/20	10/12/20	10/12/20	10/12/20	10/12/20	10/13/20	10/13/20
			In Place	In Place	In Place	In Place	In Place	In Place	NA	In Place	In Place	NA		
Benzene	ug/kg	71-43-2	100	4,000	1.80E+05	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylbenzene	ug/kg	100-41-4	1,500	360	2.20E+07	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Toluene	ug/kg	108-88-3	16,000	5,400	5.00E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Xylenes	ug/kg	1330-20-7	5,600	980	4.10E+08	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
1,2-Dibromoethane (EDB)	ug/kg	106-93-4	20 (M); 1.0	110	92	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
1,2-Dichloroethane (DCA)	ug/kg	107-06-2	100	7,200	91,000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Methyl-tert-butyl ether (MTBE)	ug/kg	1634-04-4	800	1.40E+05	1.50E+06	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	8.10E+06	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	ug/kg	91-20-3	35,000	730	1.60E+07	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2,4-Trimethylbenzene	ug/kg	95-63-6	2,100	570	3.20E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene	ug/kg	108-67-8	1,800	1,100	3.20E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Semivolatiles, PNAs, ug/Kg														
Acenaphthene	ug/kg	83-32-9	3.00E+05	8,700	4.10E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acenaphthylene	ug/kg	208-96-8	5,900	ID	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	ug/kg	120-12-7	41,000	ID	2.30E+08	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene	ug/kg	56-55-3	NLL	NLL	20,000	< 330	< 330	< 330	340	< 330	< 330	402	< 330	< 330
Benzo(b)fluoranthene	ug/kg	205-99-2	NLL	NLL	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	ug/kg	207-08-9	NLL	NLL	2.00E+05	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	ug/kg	191-24-2	NLL	NLL	2.50E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene	ug/kg	50-32-8	NLL	NLL	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene	ug/kg	218-01-9	NLL	NLL	2.00E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene	ug/kg	53-70-3	NLL	NLL	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	ug/kg	206-44-0	7.30E+05	5,500	4.60E+07	< 330	< 330	< 330	450	< 330	< 330	414	< 330	< 330
Fluorene	ug/kg	86-73-7	3.90E+05	5,300	2.70E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	ug/kg	193-39-5	NLL	NLL	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	8.10E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	ug/kg	91-20-3	35,000	730	1.60E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Phenanthrene	ug/kg	85-01-8	56,000	2,100	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	ug/kg	129-00-0	4.80E+05	ID	2.90E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330

800 Red shading indicates analyte exceeds unrestricted Part 213 RBSL
200 Clear shading indicates analyte identified below most restrictive RBSL
<100 Green shading indicates analyte "not Detected" above TDL
NLL EGLE has determined analyte is not likely to leach from soil to groundwater
ID/NA EGLE has not developed criteria for this pathway

Quantum Laboratories Analytical Testing Report
 Client: ATC Group Services LLC
 Attention: G.DeBusschere
 Project Name: Matzak/Ann Arbor Fuel Farm
 Project No.: 188EM20006

**TABLE 2 - ANALYTICAL RESULTS SUMMARY: Groundwater
 MATZAK, INC. - Ann Arbor Fuel Farm
 2000 S Industrial Hwy - Ann Arbor, Washtenaw County, MI
 Facility ID No. 10237**

Lab ID Sample Location Collection Date	Chemical Abstract Service Number	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Unrestricted Part 213 RBSLs	11164-1	11188-1
					Tank Bottom	Frac Tank
					6/29/20	7/15/20
Semivolatiles, PNAs, ug/L						
Acenaphthene	83-32-9	1,300	38	38	< 5	< 5
Acenaphthylene	208-96-8	52	ID	52	< 5	< 5
Anthracene	120-12-7	43 (S)	ID	43	< 5	< 5
Benzo(a)anthracene (Q)	56-55-3	2.1	ID	2.1	< 1	< 1
Benzo(b)fluoranthene (Q)	205-99-2	1.5 (S,AA)	ID	1.5	< 1	< 1
Benzo(k)fluoranthene (Q)	207-08-9	1.0 (M); 0.8 (S)	NA	0.8	< 1	< 1
Benzo(g,h,i)perylene	191-24-2	1.0 (M); 0.26 (S)	ID	0.3	< 1	< 1
Benzo(a)pyrene (Q)	50-32-8	5.0 (A)	ID	1.6	< 1	< 1
Chrysene (Q)	218-01-9	1.6 (S)	ID	1.6	< 1	< 1
Dibenzo(a,h)anthracene (Q)	53-70-3	2.0 (M); 0.21	ID	2.5	< 2	< 2
Fluoranthene	206-44-0	210 (S)	1.6	1.6	< 1	< 1
Fluorene	86-73-7	880	12	12	< 5	< 5
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	2.0 (M); 0.022 (S)	ID	0.02	< 2	< 2
2-Methylnaphthalene	91-57-6	260	19	19	< 5	< 5
Naphthalene	91-20-3	520	11	11	< 5	< 5
Phenanthrene	85-01-8	52	2.0 (M); 1.7	52	< 2	< 2
Pyrene	129-00-0	140 (S)	ID	135	< 5	< 5
Volatiles, VOCs, ug/L						
Benzene (l)	71-43-2	5.0	200 (X)	5.0	< 1	< 1
1,2-Dibromoethane (EDB)	106-93-4	0.05	5.7	0.05		<0.2
1,2-Dichloroethane (DCA)	107-06-2	5.0	360	5.0		< 1
Ethylbenzene (l)	100-41-4	74 (E)	18	18	1	< 1
2-Methylnaphthalene	91-57-6	260	19	19		< 5
Methyl-tert-butyl Ether (MTBE)	1634-04-4	40	7100	40		< 5
Naphthalene	91-20-3	520	11	11		< 5
Toluene (l)	108-88-3	790 (E)	270	270	5	< 1
1,2,4-Trimethylbenzene	95-63-6	63	17	17		< 1
1,3,5-Trimethylbenzene	108-67-8	72	45	45		< 1
Xylenes (l)	1330-20-7	280 (E)	49	49	14	< 3
Metals, ug/L						
Arsenic	7440-38-2	10	10	10		< 5
Barium	7440-39-3	2000	(G)	2,000		331
Cadmium	7440-43-9	5.0	(G,X)	5.0		< 1
Chromium, Total	16065-83-1	100	(G,X)	100		< 5
Copper	7440-50-8	1000	(G)	1,000		11
Lead	7439-92-1	4.0	(G,X)	4.0		< 3
Mercury	7439-97-6	2.0	0.0013	0.0013		<0.2
Selenium	7782-49-2	50	5.0	5.0		< 5
Silver	7440-22-4	34	0.2	0.2		<0.2
Zinc	7440-66-6	2400	(G)	2,400		< 50

**TABLE 2 - ANALYTICAL RESULTS: GROUNDWATER
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237**

		Laboratory ID:	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	11164-1	11322-1	11492-1	11322-2	11492-2	11322-3	11322-7	11492-3
		Sample ID:			Tank Bottom	MW-1	MW-1	MW-2	MW-2	MW-3	Dup 1	MW-3
		Sample Notes:										
		Sample Date			6/29/2020	10/19/2020	1/11/2021	10/19/2020	1/11/2021	10/19/2020	10/19/2020	1/11/2021
		Report Date:			7/6/2020	10/26/2020	1/18/2021	10/26/2020	1/18/2021	10/26/2020	10/26/2020	1/18/2021
Volatiles, VOCs, ug/L	Units	CAS No.	TDL									
Benzene	ug/L	71-43-2	1	5.0	200	< 1	< 25	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	100-41-4	1	74	18	1	< 25	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	108-88-3	1	790	270	5	< 25	< 1	< 1	< 1	< 1	< 1
Xylenes	ug/L	1330-20-7	3	280	49	14	< 75	< 3	< 3	< 3	< 3	< 3
1,2-Dibromoethane (EDB)	ug/L	106-93-4	0.2	0.05	5.7		< 5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichloroethane	ug/L	107-06-2	1	5.0	360		< 25	< 1	< 1	< 1	< 1	< 1
Methyl-tert-butyl ether (MTBE)	ug/L	1634-04-4	5	40	7100		< 125	< 5	< 5	< 5	< 5	< 5
2-Methylnaphthalene	ug/L	91-57-6	5	260	19		< 125	< 5	< 5	< 5	< 5	< 5
Naphthalene	ug/L	91-20-3	5	520	11		< 125	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	ug/L	95-63-6	1	63	17		< 25	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	ug/L	108-67-8	1	72	45		< 25	< 1	< 1	< 1	< 1	< 1
Semivolatiles, PNAs, ug/L												
Acenaphthene	ug/L	83-32-9	330	1,300	38		< 5	< 5	< 5	< 5	< 5	< 5
Acenaphthylene	ug/L	208-96-8	330	52	ID		< 5	< 5	< 5	< 5	< 5	< 5
Anthracene	ug/L	120-12-7	330	43	ID		< 5	< 5	< 5	< 5	< 5	< 5
Benzo(a)anthracene	ug/L	56-55-3	330	2.1	ID		< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	ug/L	205-99-2	330	1.5	ID		< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	ug/L	207-08-9	330	1.0	NA		< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	ug/L	191-24-2	330	1.0	ID		< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	ug/L	50-32-8	330	5.0	ID		< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	ug/L	218-01-9	330	1.6	ID		< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	ug/L	53-70-3	330	2.0	ID		< 2	< 2	< 2	< 2	< 2	< 2
Fluoranthene	ug/L	206-44-0	330	210	1.6		< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	ug/L	86-73-7	330	880	12		< 5	< 5	< 5	< 5	< 5	< 5
Indeno(1,2,3-cd)pyrene	ug/L	193-39-5	330	2.0	ID		< 2	< 2	< 2	< 2	< 2	< 2
2-Methylnaphthalene	ug/L	91-57-6	330	260	19		< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	ug/L	91-20-3	330	520	11		< 5	< 5	< 5	< 5	< 5	< 5
Phenanthrene	ug/L	85-01-8	330	52	2		< 2	< 2	< 2	< 2	< 2	< 2
Pyrene	ug/L	129-00-0	330	140	ID		< 5	< 5	< 5	< 5	< 5	< 5

	800	Red shading indicates analyte exceeds unrestricted Part 213 RBSL
	200	Clear shading indicates analyte identified below most restrictive RBSL
	<100	Green shading indicates analyte "not Detected" above TDL
		Cross hatch pattern indicates parameter not analyzed per BFS instructions
	ID/NA	EGLE has not developed criteria for this pathway




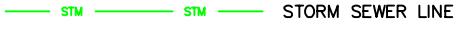

**TABLE 2 - ANALYTICAL RESULTS: GROUNDWATER
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237**

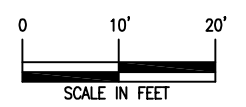
		Laboratory ID:	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	11322-4	11492-4	11322-5	11492-5	11322-6	11492-6	11492-7	
		Sample ID:			MW-4	MW-4	MW-5	MW-5	MW-6	MW-6	DUP-1	
		Sample Notes:										MW-6
		Sample Date			10/19/2020	1/11/2021	10/19/2020	1/11/2021	10/19/2020	1/11/2021	1/11/2021	
		Report Date:			10/26/2020	1/18/2021	10/26/2020	1/18/2021	10/26/2020	1/18/2021	1/18/2021	
Volatiles, VOCs, ug/L	Units	CAS No.	TDL									
Benzene	ug/L	71-43-2	1	5.0	200	< 1	< 1	< 1	< 1	< 1	< 1	
Ethylbenzene	ug/L	100-41-4	1	74	18	< 1	< 1	< 1	< 1	< 1	< 1	
Toluene	ug/L	108-88-3	1	790	270	< 1	< 1	< 1	< 1	< 1	< 1	
Xylenes	ug/L	1330-20-7	3	280	49	< 3	< 3	< 3	< 3	< 3	< 3	
1,2-Dibromoethane (EDB)	ug/L	106-93-4	0.2	0.05	5.7	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
1,2-Dichloroethane	ug/L	107-06-2	1	5.0	360	< 1	< 1	2	< 1	< 1	< 1	
Methyl-tert-butyl ether (MTBE)	ug/L	1634-04-4	5	40	7100	< 5	< 5	13	< 5	< 5	< 5	
2-Methylnaphthalene	ug/L	91-57-6	5	260	19	< 5	< 5	< 5	< 5	< 5	< 5	
Naphthalene	ug/L	91-20-3	5	520	11	< 5	< 5	< 5	< 5	< 5	< 5	
1,2,4-Trimethylbenzene	ug/L	95-63-6	1	63	17	< 1	< 1	< 1	< 1	< 1	< 1	
1,3,5-Trimethylbenzene	ug/L	108-67-8	1	72	45	< 1	< 1	< 1	< 1	< 1	< 1	
Semivolatiles, PNAs, ug/L												
Acenaphthene	ug/L	83-32-9	330	1,300	38	< 5	< 5	< 5	< 5	< 5	< 5	
Acenaphthylene	ug/L	208-96-8	330	52	ID	< 5	< 5	< 5	< 5	< 5	< 5	
Anthracene	ug/L	120-12-7	330	43	ID	< 5	< 5	< 5	< 5	< 5	< 5	
Benzo(a)anthracene	ug/L	56-55-3	330	2.1	ID	< 1	< 1	< 1	< 1	< 1	< 1	
Benzo(b)fluoranthene	ug/L	205-99-2	330	1.5	ID	< 1	< 1	< 1	< 1	< 1	< 1	
Benzo(k)fluoranthene	ug/L	207-08-9	330	1.0	NA	< 1	< 1	< 1	< 1	< 1	< 1	
Benzo(g,h,i)perylene	ug/L	191-24-2	330	1.0	ID	< 1	< 1	< 1	< 1	< 1	< 1	
Benzo(a)pyrene	ug/L	50-32-8	330	5.0	ID	< 1	< 1	< 1	< 1	< 1	< 1	
Chrysene	ug/L	218-01-9	330	1.6	ID	< 1	< 1	< 1	< 1	< 1	< 1	
Dibenzo(a,h)anthracene	ug/L	53-70-3	330	2.0	ID	< 2	< 2	< 2	< 2	< 2	< 2	
Fluoranthene	ug/L	206-44-0	330	210	1.6	< 1	< 1	< 1	< 1	< 1	< 1	
Fluorene	ug/L	86-73-7	330	880	12	< 5	< 5	< 5	< 5	< 5	< 5	
Indeno(1,2,3-cd)pyrene	ug/L	193-39-5	330	2.0	ID	< 2	< 2	< 2	< 2	< 2	< 2	
2-Methylnaphthalene	ug/L	91-57-6	330	260	19	< 5	< 5	< 5	< 5	< 5	< 5	
Naphthalene	ug/L	91-20-3	330	520	11	< 5	< 5	< 5	< 5	< 5	< 5	
Phenanthrene	ug/L	85-01-8	330	52	2	< 2	< 2	< 2	< 2	< 2	< 2	
Pyrene	ug/L	129-00-0	330	140	ID	< 5	< 5	< 5	< 5	< 5	< 5	

	800	Red shading indicates analyte exceeds unrestricted Part 213 RBSL
	200	Clear shading indicates analyte identified below most restrictive RBSL
	<100	Green shading indicates analyte "not Detected" above TDL
		Cross hatch pattern indicates parameter not analyzed per BFS instructions
ID/NA		EGLE has not developed criteria for this pathway

Figures



-  MONITORING WELL
-  SOIL BORING
-  EXCAVATION EXTENTS
-  STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE



4655 HUMBOLDT DRIVE, SUITE 100
 NOVI, MI 48377
 PH: 248-669-5140
 FAX: 248-669-5147
 EMAIL: WWW.CARDNOATC.COM

DATE:
01/20/21

PROJECT NO.:
188EM200011

DRAWN BY:
DLS

SCALE:
1" = 20'







REVIEWED BY:
GDB

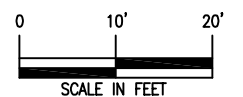
FIGURE 2

SITE MAP

MATZAK, INC.
 MUNICIPAL FUEL FARM
 2000 S INDUSTRIAL HIGHWAY
 ANN ARBOR, MICHIGAN



-  MONITORING WELL
-  STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE
-  822.03 GROUNDWATER ELEVATION
-  822.70 GROUNDWATER CONTOUR LINE (0.60 FOOT INTERVAL)
-  GROUNDWATER FLOW DIRECTION



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— AN ATLAS COMPANY —

46555 HUMBOLDT DRIVE, SUITE 100
NOVI, MI 48377
PH: 248-669-5140
FAX: 248-669-5147
EMAIL: WWW.CARDNOATC.COM

DATE:
01/20/21

PROJECT NO.:
188EM200011

DRAWN BY:
DLS







SCALE:
1" = 20'

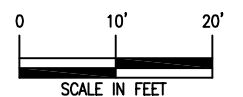
REVIEWED BY:
GDB

FIGURE 3A

**GROUNDWATER POTENTIOMETRIC
SURFACE MAP**
OCTOBER 19, 2020
MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN



-  MONITORING WELL
-  STM STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE
-  822.03 GROUNDWATER ELEVATION
-  822.70 GROUNDWATER CONTOUR LINE (0.60 FOOT INTERVAL)
-  GROUNDWATER FLOW DIRECTION



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EMAIL: WWW.CARDNOATC.COM

DATE:
01/20/21

PROJECT NO.:
188EM200011

DRAWN BY:
DLS

SCALE:
1" = 20'

REVIEWED BY:
GDB

FIGURE 3B

**GROUNDWATER POTENTIOMETRIC
SURFACE MAP
JANUARY 11, 2021**
MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

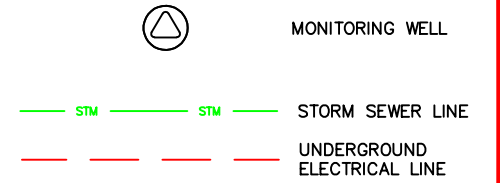
MW-2		MW-2	
10/19/2020		10/19/2020	
7-8'		24-25'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

MW-1		MW-1	
10/19/2020		10/19/2020	
6-7'		19-20'	
E	74	ULG	ND
X	378	PNA	ND
1,2,4	275		
PNA	ND		

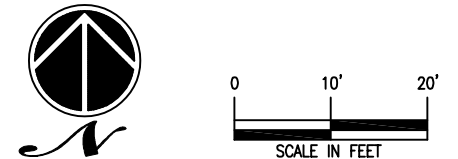
MW-6		MW-6	
10/19/2020		10/19/2020	
4-5'		14-15'	
ULG	ND	ULG	ND
BAA	402	PNA	ND
FLA	414		

MW-4		MW-4	
10/19/2020		10/19/2020	
5-6'		19-20'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

MW-5		MW-5	
10/19/2020		10/19/2020	
7-8'		19-20'	
ULG	ND	ULG	ND
BAA	340	PNA	ND
FLA	450		



- VOLATILES (VOCs)**
- SAMPLE LOCATION
SAMPLE DATE
SAMPLE DEPTH
- B BENZENE (µg/kg)
E ETHYLBENZENE (µg/kg)
T TOLUENE (µg/kg)
X XYLENES (µg/kg)
- 1,2-DB 1,2-DIBROMOETHANE (µg/kg)
1,2-DC 1,2-DICHLOROETHANE (µg/kg)
- M MTBE (µg/kg)
2-M 2-METHYLNAPHTHALENE (µg/kg)
N NAPHTHALENE (µg/kg)
1,2,4 1,2,4-TMB (µg/kg)
1,3,5 1,3,5-TMB (µg/kg)
ND NOT DETECTED
ULG UNLEADED GASOLINE CONSTITUENTS
NS NOT SAMPLED
- SOM-VOLATILES (PNA)**
- PNA POLYNUCLEAR AROMATIC HYDROCARBON
- ACE ACENAPHTHENE (µg/kg)
ACY ACENAPHTHYLENE (µg/kg)
ANT ANTHRACENE (µg/kg)
BAA BENZO(A)ANTHRACENE (µg/kg)
BBF BENZO(B)FLUORANTHENE (µg/kg)
BKF BENZO(K)FLUORANTHENE (µg/kg)
BPS BENZO(G,H)PERYLENE (µg/kg)
BAP BENZO(A)PYRENE (µg/kg)
CHR CHRYSENE (µg/kg)
DAA DIBENZO(A,H)ANTHRACENE (µg/kg)
FLA FLUORANTHENE (µg/kg)
FLO FLUORENE (µg/kg)
IP INDENO(1,2,3-CD)PYRENE (µg/kg)
2-M 2-METHYLNAPHTHALENE (µg/kg)
N NAPHTHALENE (µg/kg)
PHE PHENANTHRENE (µg/kg)
PYR PYRENE (µg/kg)



4655 HUMBOLDT DRIVE, SUITE 100
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PH: 248-669-5140
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DATE: 01/20/21	PROJECT NO.: 188EM200011
DRAWN BY: DLS	SCALE: 1" = 20'
REVIEWED BY: GDB	FIGURE 4

ADSORBED SOIL CONCENTRATIONS 10-19-20

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

MW-2		MW-2	
10/19/2020		1/11/2021	
5-10'		5-10'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

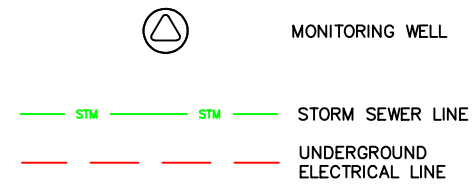
MW-1		MW-1	
10/19/2020		1/11/2021	
5-10'		5-10'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

MW-6		MW-6	
10/19/2020		1/11/2021	
5-10'		5-10'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

MW-3		MW-3	
10/19/2020		1/11/2021	
5-10'		5-10'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

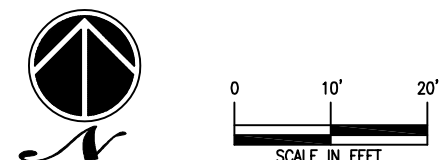
MW-4		MW-4	
10/19/2020		1/11/2021	
5-10'		5-10'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

MW-5		MW-5	
10/19/2020		1/11/2021	
5-10'		5-10'	
1,2-DC	2	ULG	ND
MTBE	13	PNA	ND
PNA	ND		



- VOLATILES (VOCs)**
- SAMPLE LOCATION
SAMPLE DATE
SCREEN INTERVAL
- B BENZENE (µg/L)
 - E ETHYLBENZENE (µg/L)
 - T TOLUENE (µg/L)
 - X XYLENES (µg/L)
 - 1,2-DB 1,2-DIBROMOETHANE (µg/L)
 - 1,2-DC 1,2-DICHLOROETHANE (µg/L)
 - M MTBE (µg/L)
 - 2-M 2-METHYLNAPHTHALENE (µg/L)
 - N NAPHTHALENE (µg/L)
 - 1,2,4 1,2,4-TMB (µg/L)
 - 1,3,5 1,3,5-TMB (µg/L)
 - ND NOT DETECTED
 - ULG UNLEADED GASOLINE CONSTITUENTS
 - NS NOT SAMPLED

- SEMI-VOLATILES (PNA)**
- PNA POLYNUCLEAR AROMATIC HYDROCARBON
 - ACE ACENAPHTHENE (µg/L)
 - ACY ACENAPHTHYLENE (µg/L)
 - ANT ANTHRACENE (µg/L)
 - BAA BENZO(A)ANTHRACENE (µg/L)
 - BBF BENZO(B)FLUORANTHENE (µg/L)
 - BKF BENZO(K)FLUORANTHENE (µg/L)
 - BGP BENZO(G,H,I)PERYLENE (µg/L)
 - BAP BENZO(A)PYRENE (µg/L)
 - CHR CHRYSENE (µg/L)
 - DAA DIBENZO(A,H)ANTHRACENE (µg/L)
 - FLA FLUORANTHENE (µg/L)
 - FLO FLUORENE (µg/L)
 - IP INDENO(1,2,3-CD)PYRENE (µg/L)
 - 2-M 2-METHYLNAPHTHALENE (µg/L)
 - N NAPHTHALENE (µg/L)
 - PHE PHENANTHRENE (µg/L)
 - PYR PYRENE (µg/L)









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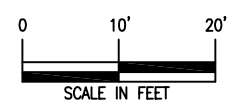
4655 HUMBOLDT DRIVE, SUITE 100
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FAX: 248-669-5147
EMAIL: WWW.CARDNOATC.COM

DATE: 01/20/21	PROJECT NO.: 188EM20011
DRAWN BY: DLS	SCALE: 1" = 20'
REVIEWED BY: GDB	FIGURE 5

**COMPREHENSIVE DISSOLVED
GROUNDWATER CONCENTRATIONS**
10/19/20 - 1/11/21
MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN



-  MONITORING WELL
-  SOIL GRAB SAMPLE
-  EXCAVATION EXTENTS
-  STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE
-  CROSS SECTION TRACE LINE



4655 HUMBOLDT DRIVE, SUITE 100
NOVI, MI 48377
PH: 248-669-5140
FAX: 248-669-5147
EMAIL: WWW.CARDNOATC.COM

DATE:
02/12/2021

PROJECT NO.:
188EM200011

DRAWN BY:
JBS

SCALE:
1" = 20'

REVIEWED BY:
GDB

FIGURE 6A

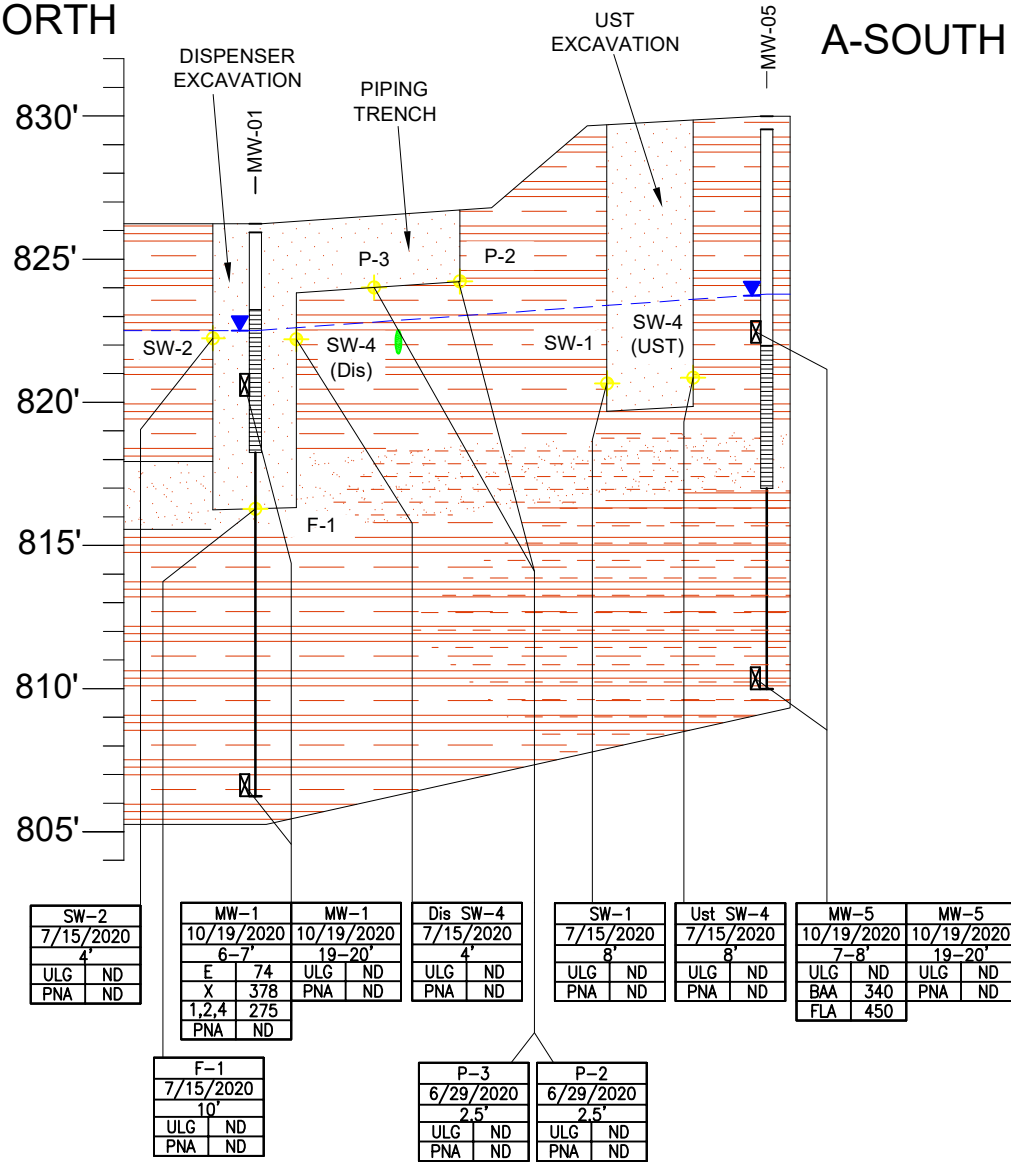
**SITE MAP
WITH CROSS SECTION TRACE**

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

A-NORTH

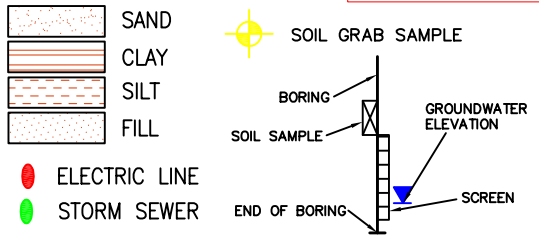
A-SOUTH

ELEVATION (FEET)
(EXAGGERATED 1:7)



- VOLATILES (VOCs)**
- SAMPLE LOCATION
SAMPLE DATE
SAMPLE DEPTH
- B BENZENE (µg/kg)
E ETHYLBENZENE (µg/kg)
T TOLUENE (µg/kg)
X XYLENES (µg/kg)
- 1,2-DB 1,2,-DIBROMOETHANE (µg/kg)
1,2-DC 1,2,-DICHLOROETHANE (µg/kg)
- M MTBE (µg/kg)
2-M 2-METHYLNAPHTHALENE (µg/kg)
N NAPHTHALENE (µg/kg)
1,2,4 1,2,4-TMB (µg/kg)
1,3,5 1,3,5-TMB (µg/kg)
ND NOT DETECTED
ULG UNLEADED GASOLINE CONSTITUENTS
NS NOT SAMPLED
- SEMI-VOLATILES (PNA)**
- PNA POLYNUCLEAR AROMATIC HYDROCARBON
ACE ACENAPHTHENE (µg/kg)
ACY ACENAPHTHYLENE (µg/kg)
ANT ANTHRACENE (µg/kg)
BAA BENZO(A)ANTHRACENE (µg/kg)
BBF BENZO(B)FLUORANTHENE (µg/kg)
BKF BENZO(K)FLUORANTHENE (µg/kg)
BOP BENZO(G,H,I)PERYLENE (µg/kg)
BAP BENZO(A)PYRENE (µg/kg)
CHR CHRYSENE (µg/kg)
DAA DIBENZO(A,H)ANTHRACENE (µg/kg)
FLA FLUORANTHENE (µg/kg)
FLO FLUORENE (µg/kg)
IP INDENO(1,2,3-CD)PYRENE (µg/kg)
2-M 2-METHYLNAPHTHALENE (µg/kg)
N NAPHTHALENE (µg/kg)
PHE PHENANTHRENE (µg/kg)
PYR PYRENE (µg/kg)

LEGEND



4655 HUMBOLDT DRIVE, SUITE 100
NOVI, MI 48377
PH: 248-669-5140
FAX: 248-669-5147
WEBSITE: WWW.ATCGROUPSERVICES.COM

DATE: 2/12/2021

PROJECT NO.: 188EM200011

DRAWN BY: JBS

NO SCALE

REVIEWED BY: GDB

FIGURE 6B.1

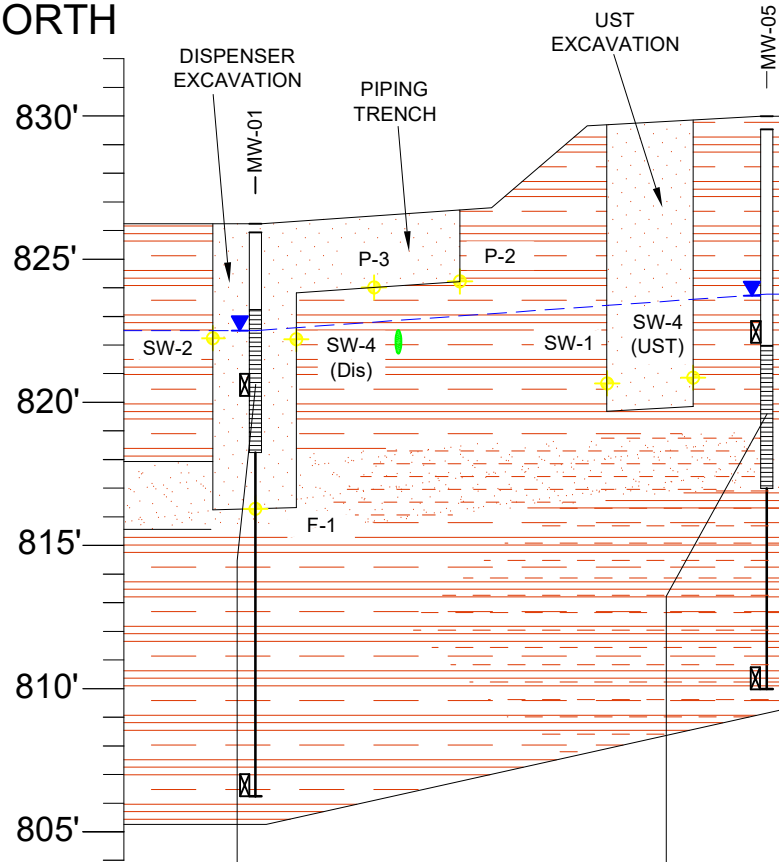
CROSS SECTION A-A' WITH ADSORBED CONCENTRATIONS

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

A-NORTH

A-SOUTH

ELEVATION (FEET)
(EXAGGERATED 1:7)

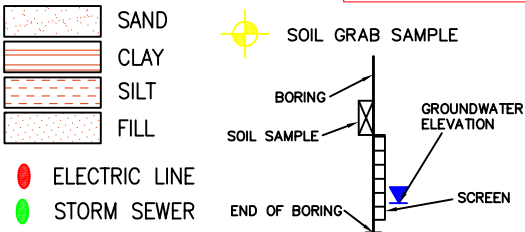


MW-1	MW-1
10/19/2020	1/11/2021
5-10'	5-10'
ULG ND	ULG ND
PNA ND	PNA ND

MW-5	MW-5
10/19/2020	1/11/2021
5-10'	5-10'
1,2-DC 2	ULG ND
MTBE 13	PNA ND
PNA ND	

- VOLATILES (VOCs)**
- SAMPLE LOCATION
SAMPLE DATE
SCREEN INTERVAL
- B BENZENE (µg/L)
E ETHYLBENZENE (µg/L)
T TOLUENE (µg/L)
X XYLENES (µg/L)
- 1,2-DB 1,2-DIBROMOETHANE (µg/L)
1,2-DC 1,2-DICHLOROETHANE (µg/L)
- M MTBE (µg/L)
2-M 2-METHYLNAPHTHALENE (µg/L)
N NAPHTHALENE (µg/L)
1,2,4 1,2,4-TMB (µg/L)
1,3,5 1,3,5-TMB (µg/L)
ND NOT DETECTED
ULG UNLEADED GASOLINE CONSTITUENTS
NS NOT SAMPLED
- SEMI-VOLATILES (PNA)**
- PNA POLYNUCLEAR AROMATIC HYDROCARBON
ACE ACENAPHTHENE (µg/L)
ACY ACENAPHTHYLENE (µg/L)
ANT ANTHRACENE (µg/L)
BAA BENZO(A)ANTHRACENE (µg/L)
BBF BENZO(B)FLUORANTHENE (µg/L)
BKF BENZO(K)FLUORANTHENE (µg/L)
BGP BENZO(G,H,I)PERYLENE (µg/L)
BAP BENZO(A)PYRENE (µg/L)
CHR CHRYSENE (µg/L)
DAA DIBENZO(A,H)ANTHRACENE (µg/L)
FLA FLUORANTHENE (µg/L)
FLO FLUORENE (µg/L)
IP INDENO(1,2,3-CD)PYRENE (µg/L)
2-M 2-METHYLNAPHTHALENE (µg/L)
N NAPHTHALENE (µg/L)
PHE PHENANTHRENE (µg/L)
PYR PYRENE (µg/L)

LEGEND



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NOVI, MI 48377
PH: 248-669-5140
FAX: 248-669-5147
WEBSITE: WWW.ATCGROUPSERVICES.COM

DATE: 2/12/2021

PROJECT NO.: 188EM200011

DRAWN BY: JBS

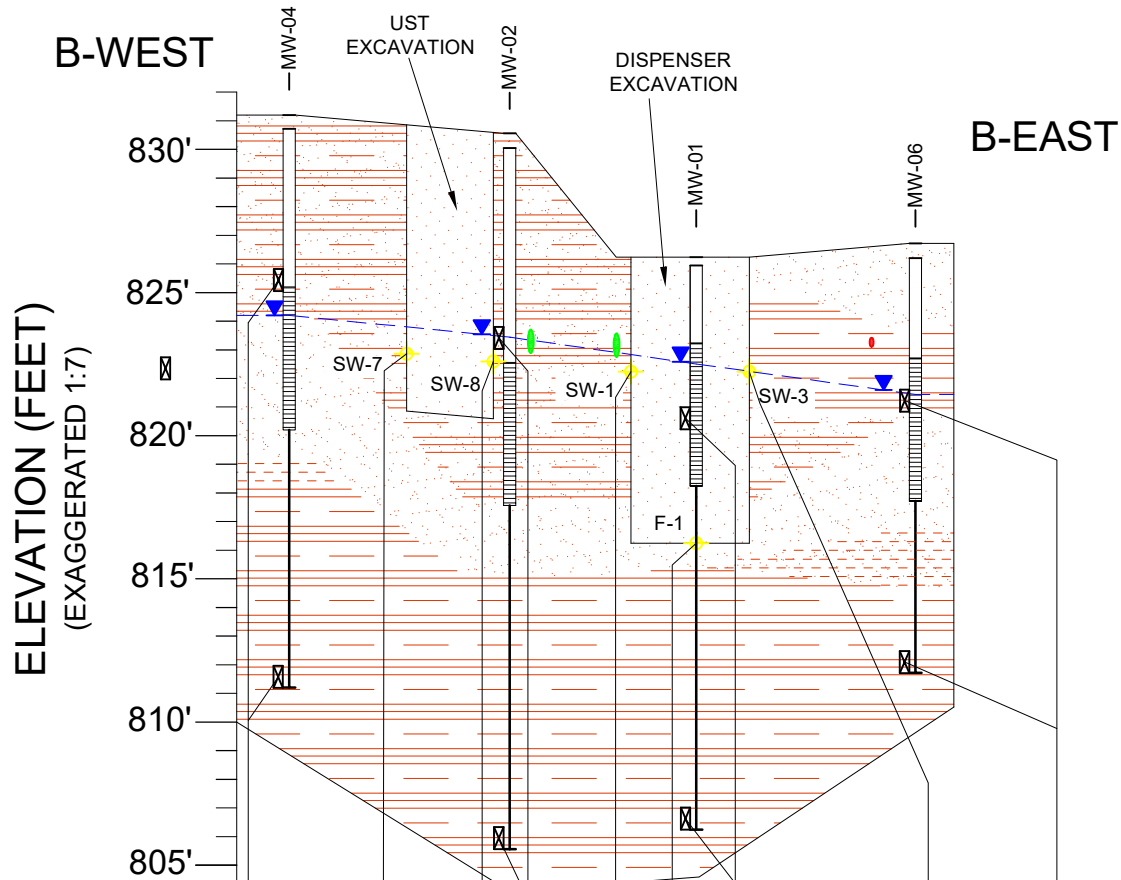
NO SCALE

REVIEWED BY: GDB

FIGURE 6B.2

CROSS SECTION A-A' WITH DISSOLVED CONCENTRATIONS

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

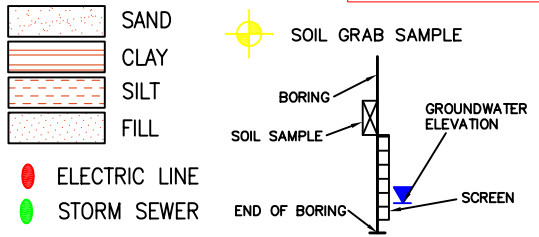


- VOLATILES (VOCs)**
- SAMPLE LOCATION
 SAMPLE DATE
 SAMPLE DEPTH
- B BENZENE (µg/kg)
 E ETHYLBENZENE (µg/kg)
 T TOLUENE (µg/kg)
 X XYLENES (µg/kg)
- 1,2-DB 1,2,-DIBROMOETHANE (µg/kg)
 1,2-DC 1,2,-DICHLOROETHANE (µg/kg)
- M MTBE (µg/kg)
 2-M 2-METHYLNAPHTHALENE (µg/kg)
 N NAPHTHALENE (µg/kg)
 1,2,4 1,2,4-TMB (µg/kg)
 1,3,5 1,3,5-TMB (µg/kg)
- ND NOT DETECTED
 ULG UNLEADED GASOLINE CONSTITUENTS
 NS NOT SAMPLED

- SEMI-VOLATILES (PNA)**
- PNA POLYNUCLEAR AROMATIC HYDROCARBON
- ACE ACENAPHTHENE (µg/kg)
 ACY ACENAPHTHYLENE (µg/kg)
 ANT ANTHRACENE (µg/kg)
 BAA BENZO(A)ANTHRACENE (µg/kg)
 BBF BENZO(B)FLUORANTHENE (µg/kg)
 BKF BENZO(K)FLUORANTHENE (µg/kg)
 BOP BENZO(G,H,I)PERYLENE (µg/kg)
 BAP BENZO(A)PYRENE (µg/kg)
 CHR CHRYSENE (µg/kg)
 DAA DIBENZO(A,H)ANTHRACENE (µg/kg)
 FLA FLUORANTHENE (µg/kg)
 FLO FLUORENE (µg/kg)
 IP INDEN(1,2,3-CD)PYRENE (µg/kg)
 2-M 2-METHYLNAPHTHALENE (µg/kg)
 N NAPHTHALENE (µg/kg)
 PHE PHENANTHRENE (µg/kg)
 PYR PYRENE (µg/kg)

SW-7		SW-8		SW-1		MW-1		MW-1		SW-3		MW-6		MW-6	
7/15/2020		7/15/2020		7/15/2020		10/19/2020		10/19/2020		7/15/2020		10/19/2020		10/19/2020	
8'		8'		4'		6-7'		19-20'		4'		4-5'		14-15'	
ULG	ND	ULG	ND	ULG	ND	E	74	ULG	ND	ULG	ND	ULG	ND	ULG	ND
PNA	ND	PNA	ND	PNA	ND	X	378	PNA	ND	PNA	ND	BAA	402	PNA	ND
						1,2,4	275					FLA	414		
						PNA	ND								
MW-4		MW-4		MW-2		MW-2		F-1							
10/19/2020		10/19/2020		10/19/2020		10/19/2020		7/15/2020							
5-6'		19-20'		7-8'		24-25'		10'							
ULG	ND	ULG	ND	ULG	ND	ULG	ND	ULG	ND						
PNA	ND	PNA	ND	PNA	ND	PNA	ND	PNA	ND						

LEGEND



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DATE: 2/12/2021

PROJECT NO.: 188EM200011

DRAWN BY: JBS

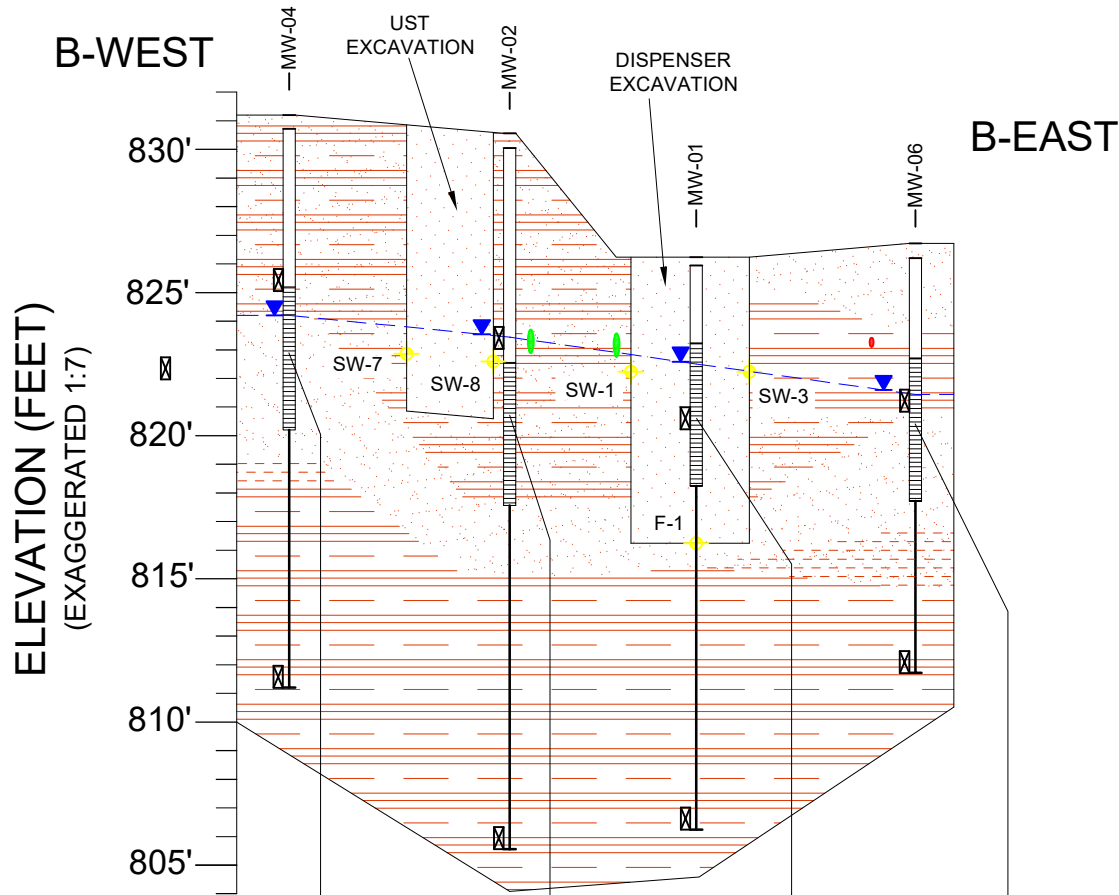
NO SCALE

REVIEWED BY: GDB

FIGURE 6C.1

CROSS SECTION B-B' WITH ADSORBED CONCENTRATIONS

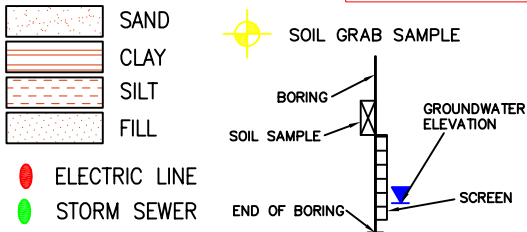
MATZAK, INC.
 MUNICIPAL FUEL FARM
 2000 S INDUSTRIAL HIGHWAY
 ANN ARBOR, MICHIGAN



MW-4		MW-4		MW-2		MW-2		MW-1		MW-1		MW-6		MW-6	
10/19/2020	1/11/2021	10/19/2020	1/11/2021	10/19/2020	1/11/2021	10/19/2020	1/11/2021	10/19/2020	1/11/2021	10/19/2020	1/11/2021	10/19/2020	1/11/2021	10/19/2020	1/11/2021
5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'
ULG	ND	ULG	ND	ULG	ND	ULG	ND	ULG	ND	ULG	ND	ULG	ND	ULG	ND
PNA	ND	PNA	ND	PNA	ND	PNA	ND	PNA	ND	PNA	ND	PNA	ND	PNA	ND

- VOLATILES (VOCs)**
- SAMPLE LOCATION
SAMPLE DATE
SCREEN INTERVAL
- B BENZENE (µg/L)
E ETHYLBENZENE (µg/L)
T TOLUENE (µg/L)
X XYLENES (µg/L)
- 1,2-DB 1,2-DIBROMOETHANE (µg/L)
1,2-DC 1,2-DICHLOROETHANE (µg/L)
- M MTBE (µg/L)
2-M 2-METHYLNAPHTHALENE (µg/L)
N NAPHTHALENE (µg/L)
1,2,4 1,2,4-TMB (µg/L)
1,3,5 1,3,5-TMB (µg/L)
ND NOT DETECTED
ULG UNLEADED GASOLINE CONSTITUENTS
NS NOT SAMPLED
- SEMIVOLATILES (PNA)**
- PNA POLYNUCLEAR AROMATIC HYDROCARBON
ACE ACENAPHTHENE (µg/L)
ACY ACENAPHTHYLENE (µg/L)
ANT ANTHRACENE (µg/L)
BAA BENZO(A)ANTHRACENE (µg/L)
BBF BENZO(B)FLUORANTHENE (µg/L)
BKF BENZO(K)FLUORANTHENE (µg/L)
BGP BENZO(G,H,I)PERYLENE (µg/L)
BAP BENZO(A)PYRENE (µg/L)
CHR CHRYSENE (µg/L)
DAA DIBENZO(A,H)ANTHRACENE (µg/L)
FLA FLUORANTHENE (µg/L)
FLO FLUORENE (µg/L)
IPF INDENO(1,2,3-CD)PYRENE (µg/L)
2-M 2-METHYLNAPHTHALENE (µg/L)
N NAPHTHALENE (µg/L)
PHE PHENANTHRENE (µg/L)
PYR PYRENE (µg/L)

LEGEND



4655 HUMBOLDT DRIVE, SUITE 100
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FAX: 248-669-5147
WEBSITE: WWW.ATCGROUPSERVICES.COM

DATE:
2/12/2021

PROJECT NO.:
188EM200011

DRAWN BY:
JBS

NO SCALE

REVIEWED BY:
GDB

FIGURE 6C.2

**CROSS SECTION B-B' WITH
DISSOLVED
CONCENTRATIONS**

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

Appendix A
Site Photolog

Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Photo Log

2000 South Industrial Highway
Ann Arbor, MI 48104



Appendix B

Soil Boring/Monitoring Well Logs

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-1

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/12/20 Ended 10/12/20

Total Depth (ft) 20

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ∇ ATD 5
 \blacktriangledown AD 4

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
			0.0		GRAVEL/CRUSHED LIMESTONE		CAP	
			0.0	SP	SAND - FINE TO MEDIUM GRAINED WITH TRACE GRAVEL, MOIST TO DAMP, BROWN		BENTONITE	
			0.0		WET @ 5'			
5			0.1		CONCRETE AND ASPHALT, WET		SAND 0.010"	5
	(6-7')		0.3	SP SC	SAND WITH SOME CLAY - MEDIUM TO COARSE GRAINED, GRAY, WET			
10			0.1		SILTY CLAY - GRAY, STICKY, DAMP, MEDIUM PLASTIC			
			0.0	CL				
15			0.0					
	(19-20')		0.0					
20			0.0			Bottom of hole at 20 feet		20

52LOG A EVMN05 ANN ARBOR FUEL FARM.GPJ LOG A EVMN05.GDT 10/26/20



Remarks: Screen set (3-8')

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-2
SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/12/20 Ended 10/12/20

Total Depth (ft) 25

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ∇ ATD 10

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
			0.0			TOPSOIL AND FINE TO MEDIUM GRAINED BROWN SAND	CAP	
			0.0	CL		SANDY CLAY - WITH FINE TO MEDIUM GRAINED SAND AND TRACE GRAVEL, BROWN, MOIST, SEMI-PLASTIC WITH SOME MOTTLING	BENTONITE	
5			0.1					5
	(7-8')		4.8	CL		SANDY CLAY - GRAY WITH SOME GREEN AND BLACK, MOIST/DAMP, DENSE, LITTLE PLASTIC		
			1.2	CL		SANDY CLAY - WITH SOME MEDIUM TO COARSE GRAINED SAND SEAMS AND TRACE GRAVEL, LITTLE GREEN AND BLACK, SEMI-PLASTIC, WET		
10			0.7				SAND 0.010"	10
			0.6			CONCRETE @ 12' NO RECOVERY		
15			0.3	SP		SAND - MEDIUM TO COARSE GRAINED WITH SOME GRAVEL, WET		15
			0.0			SILTY CLAY - WITH FINE GRAINED SAND SEAMS (<1" EACH) BETWEEN 16-18', STICKY, PLASTIC		
			0.0			NO SAND SEAMS BETWEEN 18-25'		
20			0.0	CL ML				20
	(24-25')		0.0					
25						Bottom of hole at 25 feet		25

52LOG A EVMN05 ANN ARBOR FUEL FARM.GPJ LOG A EVMN05.GDT 10/26/20



Remarks: Screen set (8-13')

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-3

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/12/20 Ended 10/12/20

Total Depth (ft) 13

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ∇ ATD 6.5

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
0.0			0.0			FILL SAND - BROWN FINE TO MEDIUM GRAINED WITH SOME CLAY AND TRACE GRAVEL, MOIST	CAP	0.0
2.0			0.0				BENTONITE	2.0
4.0			0.0					4.0
6.0			0.0			CRUSHED LIMESTONE AND GRAVEL, WET		6.0
8.0			0.0				SAND 0.010"	8.0
10.0			0.0	SP		SAND - MEDIUM TO COARSE GRAINED, BROWN, WET/SATURATED		10.0
12.0			0.0	SP		SAND - FINE TO MEDIUM GRAINED, BROWN WET		12.0
12.5			0.0			PEASTONE, WET		12.5
13.0			0.0			CONCRETE (BOTTOM OF FORMER UST PAD)		13.0
13.0						Bottom of hole at 13 feet		13.0

52LOG A EVMN05 ANN ARBOR FUEL FARM.GPJ LOG A EVMN05.GDT 10/26/20



Remarks: Screen set (5-10'). No soil samples collected - well installed in excavation backfill of former UST pit.

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-5

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/12/20 Ended 10/12/20

Total Depth (ft) 20

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ▽ ATD 9

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
			0.0		TOPSOIL AND GRAVEL		CAP	
			0.0		SANDY CLAY - WITH SOME GRAVEL, DARK BROWN/GRAY, CRUMBLY, NON-PLASTIC, DAMP			
					WET STARTING @ 7'			
5	(7-8')		0.1	CL			BENTONITE	5
			1.2					
			0.7					
10			0.4	SP	SAND - MEDIUM TO COARSE GRAINED WITH SOME GRAVEL, WET, GRAY		SAND 0.010"	10
			0.2	SP SM	SAND AND SILT - FINE TO MEDIUM GRAINED, GRAY, WET/SATURATED			
			0.0		SILTY CLAY - GRAY WITH SOME <1" FINE GRAINED SAND/SILT SEAMS, STICKY, DENSE			
15			0.0	CL ML				15
			0.0					
20	(19-20')		0.0			Bottom of hole at 20 feet		20

52LOG A EVMN05 ANN ARBOR FUEL FARM.GPJ LOG A EVMN05.GDT 10/26/20



Remarks: Screen set (8-13')

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-6

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/13/20 Ended 10/13/20

Total Depth (ft) 15

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ∇ ATD 5.5

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
0.0					ASPHALT		CAP	0.0
2.0			0.0	SP	SAND - MEDIUM TO COARSE GRAINED WITH GRAVEL AND SOME CLAY, BROWN, DAMP		BENTONITE	2.0
4.0			0.0	CL	SANDY CLAY - BLACK (ORGANIC), SEMI-PLASTIC, MOIST			4.0
6.0	(4-5')		0.5		CONCRETE AND GRAVEL			6.0
8.0			0.1	SP	SAND - MEDIUM TO COARSE GRAINED WITH TRACE GRAVEL AND LITTLE CLAY, GRAY, WET		SAND 0.010"	8.0
10.0			0.1	SM	SAND AND SILT - FINE GRAINED, GRAY, WET			10.0
12.0			0.0	CL ML	SILTY CLAY - SOME <1" FINE GRAINED SAND SEAMS, GRAY, STICKY, DENSE, LITTLE PLASTIC			12.0
14.0	(14-15')		0.0					14.0
16.0						Bottom of hole at 15 feet		16.0

52LOG A EVMN05 ANN ARBOR FUEL FARM.GPJ LOG A EVMN05.GDT 10/26/20



Remarks: Screen set (4-9')

See key sheet for symbols and abbreviations used above.

Appendix C

Laboratory Analytical Reports

ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11313
Report Date: October 15, 2020
Project Name: Ann Arbor Mun. Fuel Farm
Project Number: 188EM20006
Page: 1 of 16

Attn: Mr. Gerard DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Twelve (12) samples reported to be Soil and identified as "Ann Arbor Municipal Fuel Farm", 2000 S. Industrial Hwy., Ann Arbor, MI, Grab and:

1. MW-1, 6-7', 1004, 10/12/20
2. MW-1, 19-20', 1012, 10/12/20
3. MW-2, 7-8', 1120, 10/12/20
4. MW-2, 24-25', 1132, 10/12/20
5. MW-4, 5-6', 1321, 10/12/20
6. MW-4, 19-20', 1332, 10/12/20
7. MW-5, 7-8', 1507, 10/12/20
8. MW-5, 19-20', 1516, 10/12/20
9. Dup-1, 1321, 10/12/20
10. MW-6, 4-5', 1032, 10/13/20
11. MW-6, 14-15', 1049, 10/13/20
12. Dup-2, 1032, 10/13/20

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Methods 8260B and 5035
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:	MW-1, 6-7', 1004, 10/12/20					
Laboratory ID:	11313-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	74	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	275	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	378	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	88.7%	-	% Recovery	10/14/20	BD	
Toluene-d8	102%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	107%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	68.6%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	71.6%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	75.8%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	91.0%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Sample Description:		MW-1, 19-20', 1012, 10/12/20				
Laboratory ID:	11313-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	91.8%	-	% Recovery	10/14/20	BD	
Toluene-d8	101%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	105%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	50.9%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	52.1%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	66.8%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	76.8%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-2, 7-8', 1120, 10/12/20				
Laboratory ID:	11313-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	91.6%	-	% Recovery	10/14/20	BD	
Toluene-d8	101%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	103%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	48.8%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	55.5%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	79.3%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	83.5%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-2, 24-25', 1132, 10/12/20				
Laboratory ID:	11313-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.8%	-	% Recovery	10/14/20	BD	
Toluene-d8	100%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	55.2%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	61.5%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	76.9%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	82.0%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-4, 5-6', 1321, 10/12/20				
Laboratory ID:	11313-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	90.3%	-	% Recovery	10/14/20	BD	
Toluene-d8	102%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	109%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	57.4%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	60.4%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	71.9%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	82.4%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-4, 19-20', 1332, 10/12/20				
Laboratory ID:	11313-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	90.2%	-	% Recovery	10/14/20	BD	
Toluene-d8	100%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	103%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	59.2%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	60.4%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	80.1%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	80.9%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 7-8', 1507, 10/12/20				
Laboratory ID:	11313-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	87.7%	-	% Recovery	10/14/20	BD	
Toluene-d8	102%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	108%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	340	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	450	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	51.3%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	55.0%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	75.3%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	89.2%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 19-20', 1516, 10/12/20				
Laboratory ID:	11313-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	90.6%	-	% Recovery	10/14/20	BD	
Toluene-d8	100%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	53.5%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	54.7%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	69.4%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	82.1%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup-1, 1321, 10/12/20				
Laboratory ID:	11313-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	88.4%	-	% Recovery	10/14/20	BD	
Toluene-d8	103%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	110%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	47.7%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	54.1%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	76.7%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	80.6%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 4-5', 1032, 10/13/20				
Laboratory ID:	11313-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	95.5%	-	% Recovery	10/14/20	BD	
Toluene-d8	100%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	107%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	402	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	414	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	52.8%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	57.5%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	79.8%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	66.0%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 14-15', 1049, 10/13/20				
Laboratory ID:	11313-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	95.8%	-	% Recovery	10/14/20	BD	
Toluene-d8	99.1%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	51.7%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	57.2%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	67.5%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	83.6%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup-2, 1032, 10/13/20				
Laboratory ID:	11313-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	90.9%	-	% Recovery	10/14/20	BD	
Toluene-d8	101%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	61.2%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	63.7%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	74.1%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	70.1%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11313-1		Matrix: Soil		Units: ppb in extract				Data
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	25	21	100	84	17.4	
Benzene	0.0	25	25	24	100	96	4.1	
Trichloroethene	0.0	25	26	28	104	112	7.4	
Toluene	0.0	25	26	25	104	100	3.9	
Chlorobenzene	0.0	25	25	24	100	96	4.1	

PNA Matrix Spike Data

Spiked Sample: 11313-3		Matrix: Soil		Units: ppm in extract				Data
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Qualifiers
Acenaphthene	0.0	20	17	19	85	95	11.1	
Phenanthrene	0.0	20	19	20	95	100	5.1	
Fluoranthene	0.1	20	22	23	110	115	4.4	
Pyrene	0.0	20	18	19	90	95	5.4	
Chrysene	0.0	20	20	20	100	100	0.0	

Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager



CHAIN OF CUSTODY RECORD



Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
 28221 Beck Road | Suite A-11
 Wixom, MI 48393
 248-348-TEST or 248-348-8378

Quantum Laboratories, Inc.

CLIENT INFO	COMPANY	ATC Group Service
	ADDRESS	46555 Humboldt Dr, #100
	CITY, STATE, ZIP	Novi, MI
	TELEPHONE	
	FAX	
	CONTACT	Gerard DeBusschere
	ADDITIONAL PHONE	(810) 287-1679
	EMAIL ADDRESS	gerard.debusschere@atcg.com

PROJECT INFO	REPORT NO. (LAB USE)	11313	Page 1 of 2
	P.O. NUMBER		
	PROJECT NUMBER	188EM20006	
	PROJECT NAME	Ann Arbor Municipal Fuel Farm	
	SAMPLING LOCATION	2000 S. Industrial Hwy, Ann Arbor	
	SAMPLES COLLECTED BY	R. Scott	
	TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
SPECIAL INSTRUCTIONS			

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
 U=Unknown or Other

** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	ANALYSIS REQUESTED	REMARKS / PRESERVATIVES
1		MW-1 (6-7')	2	1004	10/12/20	SG	X X	MI NLG PNTAS	
2		MW-1 (19-20')	1	1012			X X		
3		MW-2 (7-8')	1	1120			X X		
4		MW-2 (24-25')	1	1132			X X		
5		MW-4 (5-6')	1	1321			X X		
6		MW-4 (19-20')	1	1332			X X		
7		MW-5 (7-8')	1	1507			X X		
8		MW-5 (19-20')	1	1516			X X		
9		Dup-1	1	1321			X X		
10									

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	<i>[Signature]</i>	10/13/20/1404	<i>[Signature]</i>
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Data Qualifiers: 1 Internal Standard results outside of acceptance limits
 S OC spike recovery outside of acceptance limits
 R PPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 Result should be considered estimated
 M Matrix interferences observed
 F Matrix spike four times rule applied
 C See Case Narrative

Report Number: 11313
 Report Date: October 15, 2020
 Project Name: Ann Arbor Mun. Fuel Farm
 Project Number: 188EM20006
 Page: 15 of 16



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council



Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road | Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378

Quantum Laboratories, Inc.

COMPANY	ATC Group Services
ADDRESS	46555 Humboldt Dr., #100
CITY, STATE, ZIP	Novi, MI
TELEPHONE	
FAX	
CONTACT	Gerard DeBusschere
ADDITIONAL PHONE	(810) 287-1679
EMAIL ADDRESS	gerard.debuschere@atcgs.com

REPORT NO. (LAB USE)	11313	Page 2 of 2
P.O. NUMBER		
PROJECT NUMBER	188EM20006	
PROJECT NAME	Ann Arbor Municipal Fuel Farm	
SAMPLING LOCATION	2000 S. Industrial Hwy, Ann Arbor	
SAMPLES COLLECTED BY	R. Scott	
TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
SPECIAL INSTRUCTIONS		

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other

** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	REMARKS / PRESERVATIVES
10		MW-6 (4-5')	2	1032	10/13/20	S	G	X X
11		MW-6 (14-15')	↓	1049	↓	↓	↓	X X
12		Dup-2	↓	1032	↓	↓	↓	X X
4								
5								
6								
7								
8								
9								
10								

ANALYSIS REQUESTED

MG MLG
PNTS

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	<i>[Signature]</i>	10/13/20/1404	<i>[Signature]</i>
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Report Number: 11313
Report Date: October 15, 2020
Project Name: Ann Arbor Mun. Fuel Farm
Project Number: 188EM20006
Page: 16 of 16

Data Qualifiers: 1 Internal Standard results outside of acceptance limits
S OC spike recovery outside of acceptance limits
R PPD outside of acceptance limits
E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated
M Matrix interference observed
F Matrix spike four times rule applied
C See Case Narrative

ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11322
Report Date: October 26, 2020
Project Name: Ann Arbor Fuel Farm
Project Number: 188EM20011
Page: 1 of 10

Attn: Mr. Gerard DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Seven (7) samples reported to be Water and identified as "Ann Arbor Fuel Farm", Ann Arbor, MI, 10/19/20, Grab and:

1. MW-1, 1155
2. MW-2, 1242
3. MW-3, 1317
4. MW-4, 1339
5. MW-5, 1405
6. MW-6, 1126
7. Dup-1, 1300

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Method 8260B
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		MW-1, 1155, 10/19/20				
Laboratory ID:	11322-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
1,2-Dichloroethane	Not Detected	25	µg/L	10/22/20	BD	E, D, M
Ethylbenzene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	5	µg/L	10/22/20	BD	E, D, M
Methyl-t-butyl ether	Not Detected	125	µg/L	10/22/20	BD	E, D, M
2-Methylnaphthalene	Not Detected	125	µg/L	10/22/20	BD	E, D, M
Naphthalene	Not Detected	125	µg/L	10/22/20	BD	E, D, M
Toluene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
1,2,4-Trimethylbenzene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
1,3,5-Trimethylbenzene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
Xylene (Total)	Not Detected	75	µg/L	10/22/20	BD	E, D, M
Surrogate Standards						
1,2-Dichloroethane-d4	91.9%	-	% Recovery	10/22/20	BD	
Toluene-d8	105%	-	% Recovery	10/22/20	BD	
4-Bromofluorobenzene	108%	-	% Recovery	10/22/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	65.2%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	63.9%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	74.8%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Sample Description:		MW-2, 1242, 10/19/20				
Laboratory ID:	11322-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/20/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/20/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/20/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/20/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	BD	
Naphthalene	Not Detected	5	µg/L	10/20/20	BD	
Toluene	Not Detected	1	µg/L	10/20/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/20/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	86.8%	-	% Recovery	10/20/20	BD	
Toluene-d8	103%	-	% Recovery	10/20/20	BD	
4-Bromofluorobenzene	107%	-	% Recovery	10/20/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	61.1%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	63.5%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	71.3%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-3, 1317, 10/19/20				
Laboratory ID:	11322-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/21/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/21/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/21/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/21/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/21/20	BD	
Naphthalene	Not Detected	5	µg/L	10/21/20	BD	
Toluene	Not Detected	1	µg/L	10/21/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/21/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	99.6%	-	% Recovery	10/21/20	BD	
Toluene-d8	98.1%	-	% Recovery	10/21/20	BD	
4-Bromofluorobenzene	104%	-	% Recovery	10/21/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	62.6%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	65.7%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	72.7%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Sample Description:		MW-4, 1339, 10/19/20				
Laboratory ID:	11322-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/20/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/20/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/20/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/20/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	BD	
Naphthalene	Not Detected	5	µg/L	10/20/20	BD	
Toluene	Not Detected	1	µg/L	10/20/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/20/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	85.7%	-	% Recovery	10/20/20	BD	
Toluene-d8	104%	-	% Recovery	10/20/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/20/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	60.5%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	62.4%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	72.9%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 1405, 10/19/20				
Laboratory ID:	11322-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/20/20	BD	
1,2-Dichloroethane	2	1	µg/L	10/20/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/20/20	BD	
Methyl-t-butyl ether	13	5	µg/L	10/20/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	BD	
Naphthalene	Not Detected	5	µg/L	10/20/20	BD	
Toluene	Not Detected	1	µg/L	10/20/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/20/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	88.2%	-	% Recovery	10/20/20	BD	
Toluene-d8	101%	-	% Recovery	10/20/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/20/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	62.6%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	67.3%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	73.2%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 1126, 10/19/20				
Laboratory ID:	11322-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/20/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/20/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/20/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/20/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	BD	
Naphthalene	Not Detected	5	µg/L	10/20/20	BD	
Toluene	Not Detected	1	µg/L	10/20/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/20/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	86.1%	-	% Recovery	10/20/20	BD	
Toluene-d8	104%	-	% Recovery	10/20/20	BD	
4-Bromofluorobenzene	105%	-	% Recovery	10/20/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	67.1%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	64.1%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	73.3%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup-1, 1300, 10/19/20				
Laboratory ID:	11322-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/21/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/21/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/21/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/21/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/21/20	BD	
Naphthalene	Not Detected	5	µg/L	10/21/20	BD	
Toluene	Not Detected	1	µg/L	10/21/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/21/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	109%	-	% Recovery	10/21/20	BD	
Toluene-d8	99.0%	-	% Recovery	10/21/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	10/21/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	54.6%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	60.3%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	65.0%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11322 LCS		Matrix: Water		Units: ppb in solution				Data Qualifiers
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	
1,1-Dichloroethene	0.0	25	31	32	124	128	3.2	
Benzene	0.0	25	29	27	116	108	7.1	
Trichloroethene	0.0	25	30	29	120	116	3.4	
Toluene	0.0	25	28	28	112	112	0.0	
Chlorobenzene	0.0	25	29	27	116	108	7.1	

PNA Matrix Spike Data

Spiked Sample: 11322 LCS		Matrix: Water		Units: ppm in extract				Data Qualifiers
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	
Acenaphthene	0.0	20	12	13	60	65	8.0	
Phenanthrene	0.0	20	13	14	65	70	7.4	
Fluoranthene	0.0	20	14	15	70	75	6.9	
Pyrene	0.0	20	12	13	60	65	8.0	
Chrysene	0.0	20	13	14	65	70	7.4	

Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council
WBENC
Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road | Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378

CLIENT INFO	COMPANY	ATC Group Services LLC
	ADDRESS	46555 Humboldt Drive, Suite 100
	CITY, STATE, ZIP	Novi, MI 48377
	TELEPHONE	810-287-1679
	FAX	
	CONTACT	Gerard DeBusschere
	ADDITIONAL PHONE	248.863.2563
	EMAIL ADDRESS	gerard.debusschere@atcgs.com

PROJECT INFO	REPORT NO. (LAB USE)	11322	Page	of
	P.O. NUMBER			
	PROJECT NUMBER	188EM20006		
	PROJECT NAME	Matzak/Ann Arbor Fuel Farm		
	SAMPLING LOCATION	Ann Arbor, MI		
	SAMPLES COLLECTED BY	Ira Adolphus		
	TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:		
SPECIAL INSTRUCTIONS				

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other
** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	ANALYSIS REQUESTED										REMARKS / PRESERVATIVES								
								MI-446 PVA																		
1		Mw-1	3	1155	10/19/20	W	G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
2		Mw-2		1242				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
3		Mw-3		1317				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
4		Mw-4		1339				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
5		Mw-5		1405				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
6		Mw-6		1126				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
7		Dwp-1		1300				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
8																										
9																										
10																										

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	<i>[Signature]</i>	1640 / 10-19-20	<i>Louise Bergquist</i>
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S OC spike recovery outside of acceptance limits
 R PPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated
 M Matrix interferences observed
 F Matrix spike (our times) rule applied
 C See Case Narrative

Report Number: 11322
 Report Date: October 26, 2020
 Project Name: Ann Arbor Fuel Farm
 Project Number: 188EM20011
 Page: 10 of 10



ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11492
Report Date: January 18, 2021
Project Name: Ann Arbor Fuel Farm
Project Number: 188EM20011
Page: 1 of 10

Attn: Mr. Gerry DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Seven (7) samples reported to be Water and identified as "Ann Arbor Fuel Farm", Ann Arbor, MI, 1/11/21, Grab and:

1. MW-1, 1215
2. MW-2, 1238
3. MW-3, 1259
4. MW-4, 1320
5. MW-5, 1341
6. MW-6, 1153
7. Dup-1

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Method 8260B
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		MW-1, 1215, 1/11/21				
Laboratory ID:	11492-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	95.9%	-	% Recovery	01/13/21	BD	
Toluene-d8	98.7%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	91.1%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	73.2%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	60.6%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	82.5%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Sample Description:		MW-2, 1238, 1/11/21				
Laboratory ID:	11492-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	84.3%	-	% Recovery	01/13/21	BD	
Toluene-d8	97.4%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	93.2%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	74.7%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	71.2%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	83.9%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Sample Description:		MW-3, 1259, 1/11/21				
Laboratory ID:	11492-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	101%	-	% Recovery	01/13/21	BD	
Toluene-d8	100%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	92.5%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	68.5%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	54.5%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	66.6%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Sample Description:		MW-4, 1320, 1/11/21				
Laboratory ID:	11492-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	96.3%	-	% Recovery	01/13/21	BD	
Toluene-d8	100%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	91.4%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	53.4%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	47.7%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	66.5%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 1341, 1/11/21				
Laboratory ID:	11492-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	87.1%	-	% Recovery	01/13/21	BD	
Toluene-d8	97.1%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	88.3%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	72.8%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	62.1%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	78.6%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 1153, 1/11/21				
Laboratory ID:	11492-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.9%	-	% Recovery	01/13/21	BD	
Toluene-d8	100%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	93.1%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	71.1%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	58.7%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	72.3%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Sample Description:		Dup-1, 1/11/21				
Laboratory ID:	11492-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	82.9%	-	% Recovery	01/13/21	BD	
Toluene-d8	97.1%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	90.6%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	59.1%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	58.4%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	75.1%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11489 LCS		Matrix: Water		Units: ppb in solution				Data
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	22	25	88	100	12.8	
Benzene	0.0	25	25	26	100	104	3.9	
Trichloroethene	0.0	25	26	26	104	104	0.0	
Toluene	0.0	25	28	26	112	104	7.4	
Chlorobenzene	0.0	25	25	24	100	96	4.1	

PNA Matrix Spike Data

Spiked Sample: 11492 LCS		Matrix: Water		Units: ppm in extract				Data
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Qualifiers
Acenaphthene	0.0	20	13	13	65	65	0.0	
Phenanthrene	0.0	20	13	13	65	65	0.0	
Fluoranthene	0.0	20	13	13	65	65	0.0	
Pyrene	0.0	20	14	14	70	70	0.0	
Chrysene	0.1	20	14	14	70	70	0.0	

Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager



CHAIN OF CUSTODY RECORD



QUANTUM LABORATORIES, INC.
 28221 Beck Road | Suite A-11
 Wixom, MI 48393
 248-348-TEST or 248-348-8378



COMPANY	ATC Group Services LLC
ADDRESS	46555 Humbolt Dr. Suite 100
CITY, STATE, ZIP	Novi, MI 48377
TELEPHONE	810-287-1679
FAX	
CONTACT	Gerard DeBusschere
ADDITIONAL PHONE	248-863-2563
EMAIL ADDRESS	gerard.debusschere@atcgs.com

REPORT NO. (LAB USE)	11492	Page 1 of 1
P.O. NUMBER		
PROJECT NUMBER	188EM20011	
PROJECT NAME	Ann Arbor Fuel Farm	
SAMPLING LOCATION	Ann Arbor, MI	
SAMPLES COLLECTED BY	Spencer Overbeck	
TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
SPECIAL INSTRUCTIONS		

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
 U=Unknown or Other
 ** GRAB/COMP: G=Grab Sample, C=Composite Sample

ANALYSIS REQUESTED	MI-VLG PNA's								REMARKS / PRESERVATIVES
1								2 40ml HCl VOAs & 1 500mL Amber	
2									
3									
4									
5									
6									
7								Taken @ MW-6	
8									
9									
10									

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **												
1		MW-1	3	1215	01/11/21	W	G	X	X										
2		MW-2	3	1238															
3		MW-3	3	1248 ⁵⁹															
4		MW-4	3	1300 ²⁰															
5		MW-5	3	1341															
6		MW-6	3	1153															
7		DUP-1	3	0000															
8																			
9																			
10																			

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	Spencer Overbeck	3:00 01/11/21	Lori [Signature]
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Data Qualifiers: 1 Internal Standard results outside of acceptance limits
 S OC spike recovery outside of acceptance limits
 R PPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 Result should be considered estimated
 M Matrix interferences observed
 F Matrix Spike (or) times rule applied
 C See Case Narrative

Report Number: 11492
 Report Date: January 18, 2021
 Project Name: Ann Arbor Fuel Farm
 Project Number: 188EM20011
 Page: 10 of 10

Appendix D

Static Groundwater Elevation Data



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
REMEDATION AND REDEVELOPMENT DIVISION

**LEAKING UNDERGROUND STORAGE TANK
CLOSURE REPORT COVER SHEET**

RECEIVED

NOV - 3 2021

NEW or REVISED PER EGLE AUDIT

EGLE - RRD

INSTRUCTIONS: COMPLETION OF THIS REPORT WITH ALL APPLICABLE INFORMATION IS MANDATORY pursuant to Part 213, Section 324.21312a of the Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. **Check one of the boxes above to indicate whether this is a new or revised submittal.** The Owner/Operator (O/O) and Qualified Underground Storage Tank Consultant (QC) must complete the affidavits on page 2. Please submit the completed closure report cover sheet and Table of Contents (Form EQP4008) to the appropriate District Office.

SITE NAME: Utilities Dept./Field Services		FACILITY ID NUMBER: 00010237	
STREET ADDRESS: 2000 S. Industrial Highway			
CITY: Ann Arbor		ZIP: 48104	COUNTY: Washtenaw
DATE(S) RELEASE(S) DISCOVERED: 6/29/2020		CONFIRMED RELEASE NUMBER(S): C-0126-20	
O/O NAME: City of Ann Arbor		O/O EMAIL ADDRESS: mikulhanek@a2gov.org	
O/O STREET ADDRESS: 301 E. Huron, 6th Floor		CITY: Ann Arbor	STATE: MI ZIP 48104
CONTACT PERSON: Matthew J. Kulhanek		PHONE: 734-794-6312	FAX:

Permission is given for EGLE to contact the Qualified Consultant: YES NO

CLOSURE REPORT INFORMATION: Answer All Questions (DO NOT LEAVE BLANKS)

- Site Classification (1-4): **4** Previous Site Classification (1-4): **4** Type of RBCA Evaluation: Tier I Tier II Tier III
- Substance(s) released: Gasoline Diesel Ethanol: E-10 E-85 Other:
- Has contamination migrated off-site above: Residential RBSL? YES NO Residential SSTLs? YES NO
If YES, have off-site impacted parties been notified per Section 21309a(3) of Part 213? YES NO
- Predominant groundwater flow direction: **Northeast** Shallowest depth to groundwater: **2.32 feet btoc**
- Is mobile NAPL present: Currently? YES NO Previously? YES NO
If present, was it recovered? YES NO If recoverable, total gallons recovered since last reported: _____ to date:
- Was migrating NAPL present? YES NO If yes, were actions taken to stop the NAPL migration? YES NO
- Since Last Report: cubic yards of soil remediated: **0** gallons of groundwater remediated: **0**
Totals to date: cubic yards of soil remediated: **160** gallons of groundwater remediated: **28,125**
- Have explosive hazards and/or acute vapor hazards been identified? YES NO
- Drinking water supply effected? Currently: YES NO Previously: YES NO
Indicate type and # of wells effected: Private # _____ Public Type II/III # _____ Municipal # _____
- Has the release affected surface water or wetlands? YES NO
- Estimated distance and direction from point of release to nearest: Private well: **0.48 mile W** Municipal well: **2.19 mile NW**
Surface water/wetland: **Unnamed Pond - 0.43 mi west** Is site within a wellhead protection zone? YES NO
- Closure report based on which type of land use? Residential Nonresidential
- Does the report include a request for: EGLE approval for GSI compliance? YES NO
Groundwater not in an aquifer determination? YES NO Institutional controls? YES NO
- Does the report include a request for:
Review and approval of 2020 VIAP SLs as SSTLs? YES NO**
Review and approval of SSTLs developed by the O/O in accordance with Part 201, Section 20120b? YES NO**
**EGLE response to the O/O regarding SSTLs will be sent within 90 days of EGLE receipt of the Closure Report
- Institutional Controls: None Notice of Corrective Action Restrictive Covenant Other:
- What type of Corrective Action was Completed? (i.e., Air Sparge/Soil Vapor Extraction; Monitored Natural Attenuation; Multi-phase Extraction; Excavation; Institutional Controls; etc.): **Natural Attenuation**



**LEAKING UNDERGROUND STORAGE TANK
CLOSURE REPORT COVER SHEET**
(continued)

CLOSURE REPORT AFFIDAVITS: (Must be completed before submitting form.)

OWNER/OPERATOR AFFIDAVIT OF REPORT COMPLETENESS

I attest that the information upon which the closure report is based is complete and true to the best of my knowledge, in accordance with Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

<i>Matthew J. Kulhanek</i>	Matthew J. Kulhanek	10/21/21
Signature of Owner or Operator / Affiant	Print Owner or Operator / Affiant Name	Date
City of Ann Arbor	301 E. Huron, 6 th Floor, Ann Arbor, MI 48104	
Name of Company (if applicable)	Address, City, State, Zip	
734-794-6312		mikulhanek@a2gov.org
Phone Number	Fax Number	Email Address

DAWN MARIE BAGOZZI
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF MONROE
My Commission Expires December 5, 2021
Acting in the County of Washtenaw

Sworn to before me and subscribed in my presence this 21st day of October, 2021.

<i>Dawn Marie Bagozzi</i>	<i>Dawn Marie Bagozzi</i>
Notary Public	Print Name
County of <u>Monroe</u>	My Commission Expires <u>12.05.2021</u>
Acting in the County of <u>Washtenaw</u>	

QUALIFIED UNDERGROUND STORAGE TANK CONSULTANT AFFIDAVIT OF CLOSURE

As preparer of the Closure Report, I attest to the fact that the corrective actions detailed in the closure report complies with all applicable requirements under the applicable Risk Based Corrective Action standard and that the information upon which the closure report is based is true and accurate to the best of my knowledge. By signing this form, I certify that I meet the qualified underground storage tank consultant requirements identified in section 324.21325 of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Attached is a Certificate of Insurance demonstrating that I have obtained the insurances required by sections 324.21312a(1)(c) and 324.21325.

<i>Gerard DeBusschere</i>	Gerard DeBusschere, CPG	10/25/2021
Signature of Qualified UST Consultant	Print Qualified QC Consultant Name	Date
Atlas Technical	46555 Humboldt Drive STE 100, Novi, MI 48377	
Name of Company	Address, City, State, Zip	
248-669-5140	248-669-5147	gerard.debuschere@atlas.com
Phone Number	Fax Number	Email Address

NOV - 3 2021

Sworn to before me and subscribed in my presence this 25th day of October, 2021.

EGLE - RRD
JACKSON DISTRICT OFFICE

<i>Abigail Jardine</i>	<i>Abigail Jardine</i>
Notary Public	Print Name
County of <u>Oakland Wayne</u>	My Commission Expires <u>8-4-23</u>
Acting in the County of <u>Oakland</u>	

ABIGAIL D. JARDINE
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF WAYNE
My Commission Expires August 4, 2023
Acting in the County of Oakland



46555 Humboldt Drive
Suite 100
Novi, MI 48377
Telephone 248-669-5140
Fax 248-669-5147
www.oneatlas.com

October 25, 2021

Ms. Sarah Nedrich
EGLE/RRD
Jackson District Office
301 E Louis Glick Highway
Jackson, Michigan 49201

via email nedrichss@michigan.gov

RECEIVED

NOV - 3 2021

**EGLE - RRD
JACKSON DISTRICT OFFICE**

RE: Closure Report
City of Ann Arbor Fuel Farm
2000 S Industrial Highway, Ann Arbor, Washtenaw County, MI
Facility ID No. 10237
Atlas Report No. 188EM20011-03

Dear Ms. Nedrich:

Atlas Technical Consultants LLC (Atlas) has been retained by the City of Ann Arbor to provide environmental management and consulting services for the referenced Site. Enclosed, please find one copy of the Closure Report prepared for the referenced Site.

If you should have any questions, comments, or require additional information, please do not hesitate to contact us in our Novi, Michigan office at 248.863.2563. Mr. DeBusschere may also be reached via cell phone at 810-287-1679 or via e-mail at gerard.debusschere@oneatlas.com.

Sincerely,
Atlas Technical LLC

Gerard DeBusschere, CPG, LPG
Sr. Project Manager

GDB/LS/JS

Attachments



LEAKING UNDERGROUND STORAGE TANK CLOSURE REPORT

CITY OF ANN ARBOR FUEL FARM

2000 S. Industrial Highway, Ann Arbor, Washtenaw County, Michigan 48104

Facility ID: 00010237

Confirmed Release #: REL-0126-20

Atlas Report No. 188EM20011.03

PREPARED FOR:

City of Ann Arbor
301 E. Huron, 6th Floor
Ann Arbor, MI 48104

PREPARED BY:

Atlas Technical
46555 Humboldt Drive STE 100
Novi, MI 48377

RECEIVED

NOV - 3 2021

EGLE - RRD
JACKSON DISTRICT OFFICE

October 21, 2021

Instructions - Utilize the following Table of Contents (TOC) to ensure that all information required by Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, is provided in the Closure Report. RBCA is defined in Part 213 as the ASTM standards E 1739-95 (2010), E 2081-00 (2010), and E 2531-06. Information in these standards must be provided, as applicable per site conditions. The Department of Environmental Quality (DEQ) may request supporting documentation to the data and conclusions of the Closure Report, which may include information in the ASTM standards referenced above.

Complete the Closure Report cover sheet and pages 1 through 2 of the TOC. The order and format in which the information is provided is at the submitter's discretion. Each page of the report, including appendices, should be consecutively numbered. The column labeled as "Page(s)" should be completed with the range of page numbers for each section. You may reference previously submitted material by specifying where the information is located within the referenced document. Submit the documentation identified in Section IV, as applicable, if IAR/FAR was not previously submitted or additional site characterization was performed following submittal of FAR.

CLOSURE REPORT TABLE OF CONTENTS (TOC)	PAGE(s)
<p>A. <u>Summary of Corrective Action Activities and Documentation of the Basis for Concluding that Corrective Actions Have Been Completed</u></p> <ol style="list-style-type: none"> 1. Provide a summary of the current and completed corrective actions activities. 2. Identify Chemical(s) of Concern (CoC), their source location(s) and remaining maximum concentrations of CoC in soil and groundwater. 3. Summarize the Non-aqueous Phase Liquid (NAPL) remaining. 4. Identify human and environmental receptor locations that could be impacted (i.e., point(s) of exposure). 5. Identify any complete transport and exposure pathways (e.g., dissolved plume, vapor migration through soils, utilities, etc.). 6. Identify current or potential future use of the site and surrounding land, and of the groundwater, surface water, and sensitive habitats. 7. Provide a final Conceptual Site Model (CSM) / NAPL CSM. 8. Summarize and discuss the risk assessment and RBCA tier evaluation. 9. Use of Site-specific Target Levels (SSTLs) generated by O/O or 2020 VIAP SLs, not previously included in a Final Assessment Report and approved by EGLE. Provide all information, calculations and an explanation of the calculation used in the generation of the SSTLs. IMPORTANT—Evaluation of the VIAP using the 2020 VIAP Screening Levels as SSTLs, indicate location of completed checklist provided in the 2013 Guidance Document for the Vapor Intrusion Pathway. <p>Reference: Part 213 Section 21311a(a) and Section 21312a; ASTM E1739-95 (2010), Section 6.2, Section 6.11 through 6.11.19; and ASTM 2531-06, Section 6.3.</p> <p>Conceptual Site Models/LCSMs: Part 213, Section 21309a(2)(a), Section 21311a.(1)(c)(ii), and Section 21312a; ASTM 2531-06, Sections 6 and 7; and ASTM E2081-00 (2010), Section 3.2.52</p>	<p>3-10</p>
<p>B. <u>Closure Verification Sampling Results</u></p> <ol style="list-style-type: none"> 1. Provide a summary of the analytical data and the appropriate RBSL or SSTL used. 2. Provide the following maps and figures (not aerial photographs): <ol style="list-style-type: none"> a. A site map of the location. b. An extended site map to include nearby parcels and their use, nearby groundwater supply wells, site plan view showing location of structures, ASTs, USTs, buried utilities and conduits, suspected/confirmed sources. c. Map(s) and cross-sections of the remaining groundwater plume and impacted soil. d. A groundwater elevation map, including a depiction of the groundwater flow direction (may reference the FAR if unchanged). e. Map(s) and cross-sections depicting remaining 3-dimensional extent of NAPL. <p>Reference: Part 213, Section 21311a(a), and Section 21312a; ASTM E1739-95 (2010), Section 6.2, Section 6.11 thru 6.11.19; ASTM 2531-06, Section 6.3, and Section 6.7 thru 6.7.3</p>	<p>9</p>

CLOSURE REPORT TOC Page 2 of 2	PAGE(s)
<p>C. <u>Institutional Controls</u></p> <ol style="list-style-type: none"> 1. Provide an explanation of land or resource use restrictions (i.e., Notice of Corrective Actions, Institutional Controls, Restrictive Covenants, Alternative Mechanisms, Notice of Land Use Restrictions), and how they will prevent or control unacceptable exposures. Must include a copy of the recorded instrument. 2. Provide a copy of the notice and proof of providing the notice to the public directly impacted by the release above a residential RBSL and the proposed corrective action. <p>Reference: Part 213, Section 21310a, and Section 21312a</p>	<p>9-10</p>
<p>D. <u>Applicable IAR/FAR Documentation</u></p> <ol style="list-style-type: none"> 1. If the IAR/FAR was not previously submitted <u>or</u> additional site characterization was performed following submittal of FAR, then refer to IAR/FAR Tables of Contents and include all relevant information that is not already provided in this closure report. <p>Reference: Site Description, Assessment and Evaluation: Part 213, Section 21311a(a), and Section 21312a; ASTM E1739-95(2010), Section 6.2, Section 6.5, Section 6.6, and Section 6.11 thru 6.11.19</p> <p>Corrective Action Activities: Part 213, Section 21309a, Section 21311a(b), Section 21312a; ASTM E1739-95(2010), Section 6.2.2, Section 6.7 thru 6.7.3, Section 6.8 thru 6.8.3, and Section 6.6 thru 6.9.2</p>	<p>10</p>



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EXECUTIVE SUMMARY

Atlas Technical (Atlas) was initially contracted by City of Ann Arbor to perform environmental investigative services at the Ann Arbor Fuel Farm facility located at 2000 S. Industrial Highway, in Ann Arbor, Michigan, with respect to a release of gasoline and diesel (release number REL-0126-20, dated June 29, 2020). The facility ID number is 00034512. The following Michigan Department of Environment, Great Lakes, and Energy (EGLE) Leaking Underground Storage Tank Closure Report was prepared to fulfill requirements under Part 213 of NREPA PA 451, as amended, to address the release.

Atlas was onsite to collect samples during the UST system removal completed by Matzak, Inc. (Matzak), the City of Ann Arbor contractor, on June 29, 2020, however, based on the field screen results for the dispenser samples DB-1 and DB-2, a suspected release was reported to Michigan Department of Licensing and Regulatory Affairs Bureau of Fire Services (DLARA-BFS). The suspected release number given to this site was REL-0126-20. Matzak removed the USTs, dispensers, and piping on June 29, 2020. Atlas collected two dispenser and three piping run soil samples, and one excavation water sample in lieu of tank and soil samples as the excavation was full of groundwater. The samples were stored on "wet" ice pending delivery under a chain-of-custody to Quantum Laboratories (Quantum, Wixom, Michigan) on June 29, 2020 to be analyzed for benzene, ethylbenzene, toluene, xylenes (BTEX) and trimethylbenzene isomers (TMBs) by USEPA analytical method 5035/8260, and for polynuclear aromatic hydrocarbon compounds (PNAs) by USEPA method 8270.

Environmental response and corrective action activities have been performed at the site by Atlas in response to the release per the requirements of the EGLE RRD. On January 26, 2021, a Site Status Report was submitted to the City of Ann Arbor, summarizing the excavation activities from the tank removal. On February 26, 2021, a LUST Initial Assessment Report was submitted to the EGLE, summarizing response activities to date for release number REL-0126-20.

The primary source of release REL-0126-20 is suspected to be from the dispenser locations due to soil impact observed at shallow soil sample locations DB-1 and DB-2, all collected at three feet below ground surface (bgs) underneath the former dispenser areas.

Based on the RRD, Part 213, Policy and Procedure #RRD-21, this site is currently a Class 4 site: long term (>2 years) threat to human health, safety, environment, or sensitive environmental receptor. All chemicals of concern are below all RBSLs or all appropriate institutional controls/deed restrictions are in place to prevent exposure to the contaminants of concern.

Based on site conditions, elimination of non-relevant exposure pathways, and completion of a Tier 1 Risk-Based Corrective Action (RBCA) evaluation, Atlas has concluded that the site meets EGLE Tier 1 Nonresidential closure requirements supported by monitored natural attenuation conducted onsite that demonstrates the reduce levels of the CoCs.

The exposure pathways have been eliminated and do not pose a risk to human health or the environment under the specified use. Therefore, Atlas, on behalf of City of Ann Arbor, requests a non-restricted Tier 1 Nonresidential Closure of release #REL-0126-20.



1. SUMMARY OF CORRECTIVE ACTION ACTIVITIES AND DOCUMENTATION OF THE BASIS FOR CONCLUDING THAT CORRECTIVE ACTIONS HAVE BEEN COMPLETED

1.1 Provide a summary of the current and completed corrective actions activities

On July 15, 2020, the area where the dispensers were located was excavated by Matzak down to 4 feet removing the impacted soil and disposed of at Woodland Meadows Landfill.

Six (6) soil borings were advanced using a Geoprobe[®] on October 12, 2020, and all borings were subsequently converted to groundwater monitoring wells (soil boring/monitoring well logs may be found in Appendix B). Soil samples were collected continuously and field screened with a photo-ionization detector (PID). A total of twelve (12) soil samples were collected and submitted for laboratory analysis. Following the advancement of the soil borings, six (6) two-inch diameter poly-vinyl chloride (PVC) groundwater monitoring wells were constructed at the following locations: MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6.

The wells were gauged, and groundwater samples were collected from each well on October 19, 2020, January 11, 2021, April 6, 2021, and June 9, 2021. The groundwater samples were collected using low-flow (minimal drawdown) sampling procedures. Duplicate samples at the rate of one (1) duplicate for each ten (10) samples and a trip blank were collected for quality assurance/quality control (QA/QC) purposes. Mobile LNAPL was not detected in any monitoring well.

1.2 Identify chemical(s) of concern (CoCs), their source location(s) and remaining maximum concentrations of CoCs in soil and groundwater

The UST removal soil samples that were collected on June 29, 2020. With the exception of the DB-1 and DB-2 dispenser samples and the Stock Pile #2 sample, the laboratory analyses resulted in "Non-Detect"¹ or less than the Part 213 Risk- Based Screening Levels (RBSLs) for all analytes tested in all samples. The samples DB-1 and DB-2 soil samples were above applicable Residential RBSLs; however, these samples have been excavated and replaced with soil samples F-1 and SW-1 through SW-4.

The groundwater sample from June 29, 2020, Tank Bottom sample identified ULG and PNAs above laboratory detection limits but below applicable Residential RBSLs.

Soil boring samples were collected on October 12, 2020. Except for the MW-1, MW-5, and MW-6 samples, the laboratory analyses resulted in "Non-Detect" for all analytes tested in all samples. Soil sample MW-1 identified select ULG parameters, and the MW-5 and MW-6 samples identified select PNAs, however, all detected concentrations were below the unrestricted Part 213 RBSLs.

The MW-5 groundwater sample from October 19, 2020 identified select ULG parameters above laboratory detection limits but below applicable Residential RBSLs. The remaining groundwater samples have resulted in "Non-Detect".

¹ "Non-Detect" indicates that the parameter was not detectible at concentrations exceeding the EGLE/RRD recommended detection levels (RDLs).



Based on the current groundwater conditions, no dissolved concentrations of COCs are present within any of the monitoring wells. All soil and groundwater concentrations are listed in Tables 1A, 1B, 2A, and 2B, Appendix B.

1.3 Summarize the Non-aqueous Phase Liquid (NAPL) remaining

Based on the EGLE guidance document *Non-aqueous Phase Liquid (NAPL) Characterization, Remediation, and Management for Petroleum Release* dated June 2014, if the GRO concentrations at a site are less than 250 milligrams per kilogram (mg/kg), residual LNAPL is considered to not be present. Soil samples collected during UST excavation and/or groundwater monitoring well installation were not analyzed for GRO by the laboratory. However, GRO concentrations were calculated using the sum of BTEX concentrations and then multiplying by 40. If the GRO concentrations were less than 250 milligrams per kilogram (mg/kg), residual LNAPL is considered not present. There were no samples collected at the site that were greater 250 mg/kg for GRO, therefore, indicating residual LNAPL is not present at the site.

In addition, neither mobile nor migrating LNAPL have been detected in the monitoring wells. Based on field observations and analytical data, there is no migrating or mobile LNAPL on- or off-site.

1.4 Identify human and environmental receptor locations that could be impacted (i.e., point(s) of exposure)

Human receptors associated with the drinking water are represented by potential, future, residential use of the property. However, the City of Ann Arbor supplies public drinking water to the Site. Therefore, it is unlikely that a private potable well would be installed on the site in the future.

1.5 Identify any complete transport and exposure pathways (e.g., dissolve plume, vapor migration through soils, utilities, etc.)

A detailed exposure pathway evaluation is provided below in Section 1.8.

1.6 Identify current or potential future use of the site and surrounding land, and of the groundwater, surface water, and sensitive habitats

The current and future use of the site is as a City of Ann Arbor transportation center. The site is bordered to the north, east, south, and west by commercial properties. Drinking water for the subject site and immediate surrounding area is provided by City of Ann Arbor, which receives 10% of its supply from a municipal well, and the remainder from the Huron River at Barton Dam, upstream of the city (and the Site). The nearest surface water receptor is an unnamed pond located approximately 0.43 miles west of the site. No other relevant sensitive habitats have been identified at this time.



1.7 Provide a final Conceptual Site Model (CSM)

Land Use:	Commercial
Soil Type	Site lithology generally consists of fill material consisting of sand, gravel, clay, concrete, and brick debris from depths varying from 5 to 13 feet bgs with native materials consisting of sand, silty-sand, and clay to the maximum depth investigated of 25 feet.
Average Depth to Water	5.89 below top of casing (btoc) on June 6, 2021
Aquifer Condition	Unknown
Groundwater Flow Direction	Northeast
Groundwater Gradient	0.02319 ft/ft.
Aquifer K	Hydraulic conductivity for fill sand ranges from 10^{-4} cm/sec or fine grain sand to 10^{-2} cm/sec for well sorted sands (<i>Applied Hydrogeology</i> , C.W. Fetter, University of Wisconsin - Oshkosh, Merrill Publishing Company, 1988), with the median value of 10^{-3} cm/sec (2.835 feet per day).
Release Substance	Unleaded Gasoline/Diesel
Release Location	Dispenser Area
Groundwater Data	Groundwater samples collected on October 19, 2020, January 11, 2021, April 6, 2021, and June 9, 2021, from the monitoring wells were not greater than the applicable EGLE cleanup criteria for gasoline/diesel CoCs.
Soil Data	Soil samples collected from DB-1 and DB-2, were greater than the Part 213 DWP and GSIP RBSLs for soil. However, the samples were excavated and the soil contamination is delineated before it migrates off-site or under Site buildings.
Receptors	The impacted areas were excavated and removed from the site and the groundwater has indicated no impacts in any monitoring wells. Human receptors associated with the drinking water are represented by potential, future, residential use of the property. However, the City of Ann Arbor supplies public drinking water to the site. The nearest surface water receptor is an unnamed pond and is located approximately 0.43 miles west of the site. This distance is beyond the estimated two - year groundwater travel time for the site of 326.20 feet and the groundwater flow is northeast.



LNAPL	<p>Residual LNAPL was found at soil sample locations DB-1 and DB-2. Soil sample location DB-1 and DB-2 were removed during excavation and soil samples F-1 and SW-1 through SW-4 were taken at the locations. In addition, neither mobile nor migrating LNAPL have been detected in the UST observation wells or groundwater monitoring wells. Based on field observations and analytical data, there is no migrating or mobile LNAPL on- or off-site. Based on this evaluation, there is a no amount of residual LNAPL remaining at the site.</p>
Vapor	<p>The Johnson & Ettinger Model is a model that was used to develop the EGLE Groundwater and Soil Volatilization to Indoor Air Inhalation (GVIAI and SVIAI) RBSLs. The U.S. EPA and the EGLE have recognized conditions in which the use of the J&E Model is not appropriate. The Part 201 Administrative Rule 714(2) for soil and Rule 724(2) for groundwater identify conditions for which the GVIAI and SVIAI RBSLs do not apply. If any of the conditions apply, then a site-specific assessment must be completed. One condition for groundwater under Rule 724 (2) (B) includes the highest water table elevation of a contaminated saturated zone at the site, considering seasonal variations, to be within three meters of the ground surface. As the highest fluctuation and average depth of the groundwater is less than three meters bgs, the EGLE SSVIAI and GVIAI generic criteria are not appropriate to evaluate inhalation exposure risk at the site. Therefore, the Volatilization to Indoor Air Pathway (VIAP) Screening Levels Assessment checklist was completed from EGLE and used to evaluate the site refer to Appendix E.</p> <p>As presented in the Closure, It is unlikely there is a complete migration route to the site retail building due to the following evidence:</p> <ul style="list-style-type: none">• The source area was removed and DB-1 and DB-2 were resampled which resulted in below VIAP screening levels;• There are no utilities that are considered pathways, because the UST system is not considered a pathway; and• The possible bioattenuation zones were evaluated with several factors and the results of these evaluations indicate DO is higher in un-impacted areas, in inverse relation to the VOC concentrations near the impacted areas. This would indicate aerobic bacteria are utilizing the DO to metabolize the VOCs, thus reducing the DO concentrations in the areas of remaining impact, and that there is an aerobic condition within the subsurface and biodegradation of the hydrocarbon plume. <p>Therefore, based on this evaluation and current site conditions, there is no potential for vapor intrusion into the current or future buildings on- or off-site. Please refer to the VIA CSM depiction Figure 7 in Appendix A.</p>



1.8 Summarize and discuss the risk assessment and RBCA tier evaluation

Atlas has conducted Tier I evaluation with RBSL incorporating the following components: primary source, receptors, migration routes, and exposure pathways/scenarios. The Tier I evaluation includes comparison of the collected soil and groundwater samples to the applicable RBSLs for the relevant exposure pathways identified for the site. The applicability of EGLE Tier I residential and nonresidential RBSLs, for purposes of delineation and compliance at the property boundaries were also evaluated and have been incorporated into this Tier I evaluation

Source Area

The source area for the release is suspected to be from the dispenser locations due to soil impact observed at shallow soil sample locations DB-1 and DB-2, all collected at three feet bgs. The CoC concentrations in these samples were greater than the drinking water protection, GSI protection RBSLs, residential and nonresidential VIAP screening levels, and calculated GRO. Monitoring well MW-1 was installed within the source area, near soil samples DB-1 and DB-2 for groundwater assessment and vertical soil delineation. In addition, soil sample locations DB-1 and DB-2 were removed during excavation source area activities and these areas were resampled, with F-1 at ten feet bgs and SW-1 through SW-4 at four feet bgs. The resampled soil samples were below RBSLs, VIAP screening levels, and calculated GRO.

1.9 Soil Ingestion/Absorption Exposure Pathway

Concentrations that are greater than residential and nonresidential Direct Contact (DC) RBSLs have not been detected in soil samples collected from any locations on-site. GRO has been analyzed or calculated in all soil samples and two samples exceeded 900 mg/kg, indicating a direct contact exposure concern. The samples that are greater than the 900 mg/kg in soil are DB-1 (3') and DB-2 (3'). Nevertheless, this area was excavated and resampled with F-1, SW-1 through SW-4 and all samples were below DC RBSLs.

Therefore, the direct contact exposure pathway is determined to be not relevant.

1.10 Inhalation Exposure Pathway

The maximum residual hydrocarbon concentrations in select soil and groundwater samples are greater than the residential and/or nonresidential VIAI RBSLs, respectively. However, based on the Johnson & Ettinger Model evaluation completed in section 1.7, the VIAI RBSLs do not apply and were not used to evaluate the site. Therefore, the EGLE *Volatilization to Indoor Air Pathway (VIAP) Screening Levels Assessment* checklist was completed and used to evaluate the site. Please refer to Appendix E.

Detected concentrations of hydrocarbons in on-site soil samples greater than residential and non-residential VIAP Screening Levels are located at DB-1 and DB-2. However, this area was excavated and resampled with samples F-1, SW-1 through SW-4 and all samples were below VIAP screening levels.

Detected concentrations of hydrocarbons in on-site soil samples are not greater than residential or non-residential VIAP screening levels.



Therefore, the inhalation exposure pathway and the vapor intrusion pathways are determined to be not relevant.

1.11 Drinking Water Protection and Drinking Water RBSLs

The June 9, 2021 groundwater analytical sampling results indicate dissolved concentrations below than the DW RBSL. Soil samples collected during the excavation of the dispensers, DB-1 and DB-2, contained CoC concentrations greater than DW protection RBSLs at approximately 3 feet bgs. However, the DB-1 and DB-2 have been excavated and resampled with F-1 and SW-1 through SW-4 which are below DW RBSLs. Therefore, the DW and DW protection exposure pathway(s) are not relevant.

Drinking water on-site is owned, operated, and provided by City of Ann Arbor Department of Public Works.

Therefore, the Potable Water Use Exposure Pathway is not relevant.

1.12 Groundwater Surface Water Interface Exposure Pathway

Soil samples collected at DB-1 and DB-2 exhibited CoC concentrations greater than GSI RBSLs at approximately 3 feet bgs. However, the DB-1 and DB-2 samples have been excavated and replaced by samples F-1 and SW-1 through SW-4 in which the resulting analyses were all below GSI RBSLs. The average depth to groundwater at the site is approximately 4.91 feet bgs for all sampling events. The on-site storm sewer piping construction is assumed concrete however the gradient flow is northeast which travels away from the storm sewer. No other relevant ecological receptors or habitats have been identified at this time. Therefore, the GSI and GSI protection exposure pathway(s) are not relevant.

2. CLOSURE VERIFICATION SAMPLING RESULTS

2.1 Provide a summary of the analytical data and the appropriate RBSL or SSTL used.

The site was evaluated using the EGLE-provided RBSLs and VIAP. Analytical results from all on-site monitoring wells and borings collected during the assessment of release REL-0126-20 are provided in Tables 1 and 2 for details.

2.2 Provide the following maps and figures

Refer to Figures in the Appendix A.

3. INSTITUTIONAL CONTROLS

3.1 Provide an explanation of land or resource use restrictions (i.e., Notice of Corrective Actions, Institutional Controls, Restrictive Covenants, Alternative Mechanisms, Notice of Land Use Restrictions), and how they will prevent or control unacceptable exposures. Provide a copy of the recorded instrument.

No Institutional Controls were implemented due to the soil and groundwater analytical results are below criteria (RBSLs and/or VIAP).



- 3.2 Provide a copy of the notice and proof of providing the notice to the public directly impacted by the release above a residential RBSL and the proposed corrective action

Refer to Section 3.1.

4. APPLICABLE IAR/FAR DOCUMENTATION

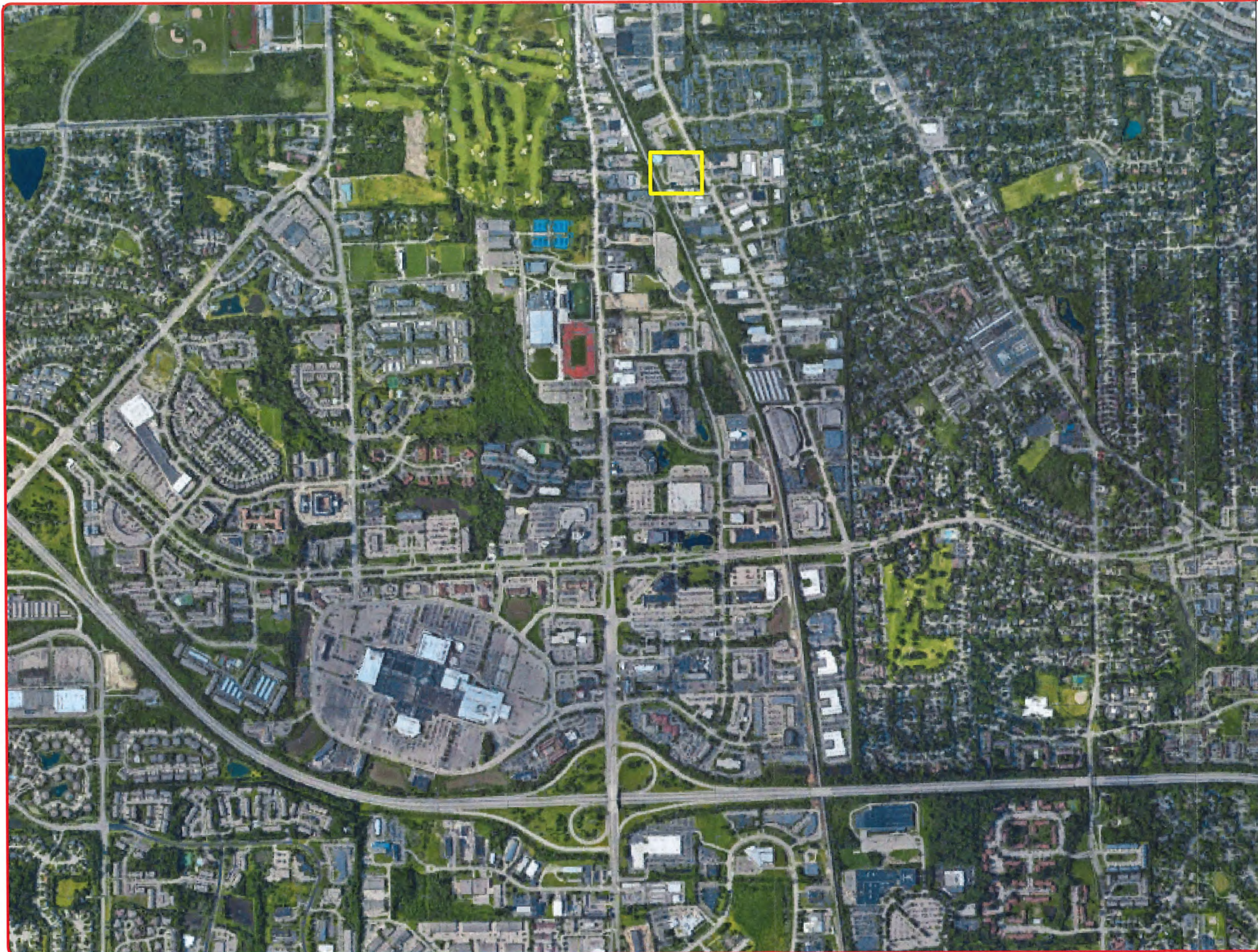
- 4.1 If the IAR/FAR was not previously submitted or additional site characterization was performed following submittal of FAR, then refer to IAR/FAR Tables of Contents and include all relevant information that is not already provided in this closure report.

Refer to Sections 1 and 2 for details regarding site characterization and corrective actions completed after the submittal of the IAR. Please refer to Appendix D for copies of soil boring logs and monitoring well construction diagrams for the soil borings and monitoring wells installed for confirmed release number REL-0126-20. In addition, refer to Appendix F for a copy of laboratory analytical reports for groundwater sampling events completed after the submittal of the IAR.

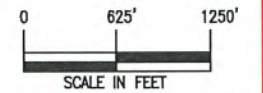


APPENDIX A

FIGURES



SITE LOCATION



46555 HUMBOLDT DRIVE, SUITE 100
NOVI, MI 48377
PH: 248-669-5140
FAX: 248-669-5147
EMAIL: WWW.CARDNOATC.COM

DATE:
01/20/21

PROJECT NO.:
188EM200011

DRAWN BY:
DLS

SCALE:
1" = 1250'






REVIEWED BY:
GDB

FIGURE 1

SITE LOCATION MAP

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN



-  MONITORING WELL
-  SOIL BORING
-  EXCAVATION EXTENTS
-  STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE



ATC
— AN ATLAS COMPANY —







4655 HUMBOLDT DRIVE, SUITE 100
NOVI, MI 48377
PH: 248-669-5140
FAX: 248-669-5147
EMAIL: WWW.CARDNOATC.COM

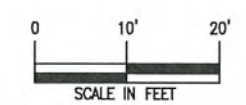
DATE: 01/20/21	PROJECT NO.: 188EM200011
DRAWN BY: DLS	SCALE: 1" = 20'
REVIEWED BY: GDB	FIGURE 2

SITE MAP

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN



-  MONITORING WELL
-  STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE
-  822.03 GROUNDWATER ELEVATION
-  822.70 GROUNDWATER CONTOUR LINE (0.60 FOOT INTERVAL)
-  GROUNDWATER FLOW DIRECTION



4555 HUMBOLDT DRIVE, SUITE 100
 NOVI, MI 48377
 PH: 248-669-5140
 FAX: 248-669-5147
 EMAIL: WWW.CARDNOATC.COM

DATE:
01/20/21

PROJECT NO.:
188EM200011

DRAWN BY:
DLS







SCALE:
1" = 20'

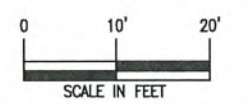
REVIEWED BY:
GDB

FIGURE 3A

**GROUNDWATER POTENTIOMETRIC
 SURFACE MAP**
 OCTOBER 19, 2020
 MATZAK, INC.
 MUNICIPAL FUEL FARM
 2000 S INDUSTRIAL HIGHWAY
 ANN ARBOR, MICHIGAN



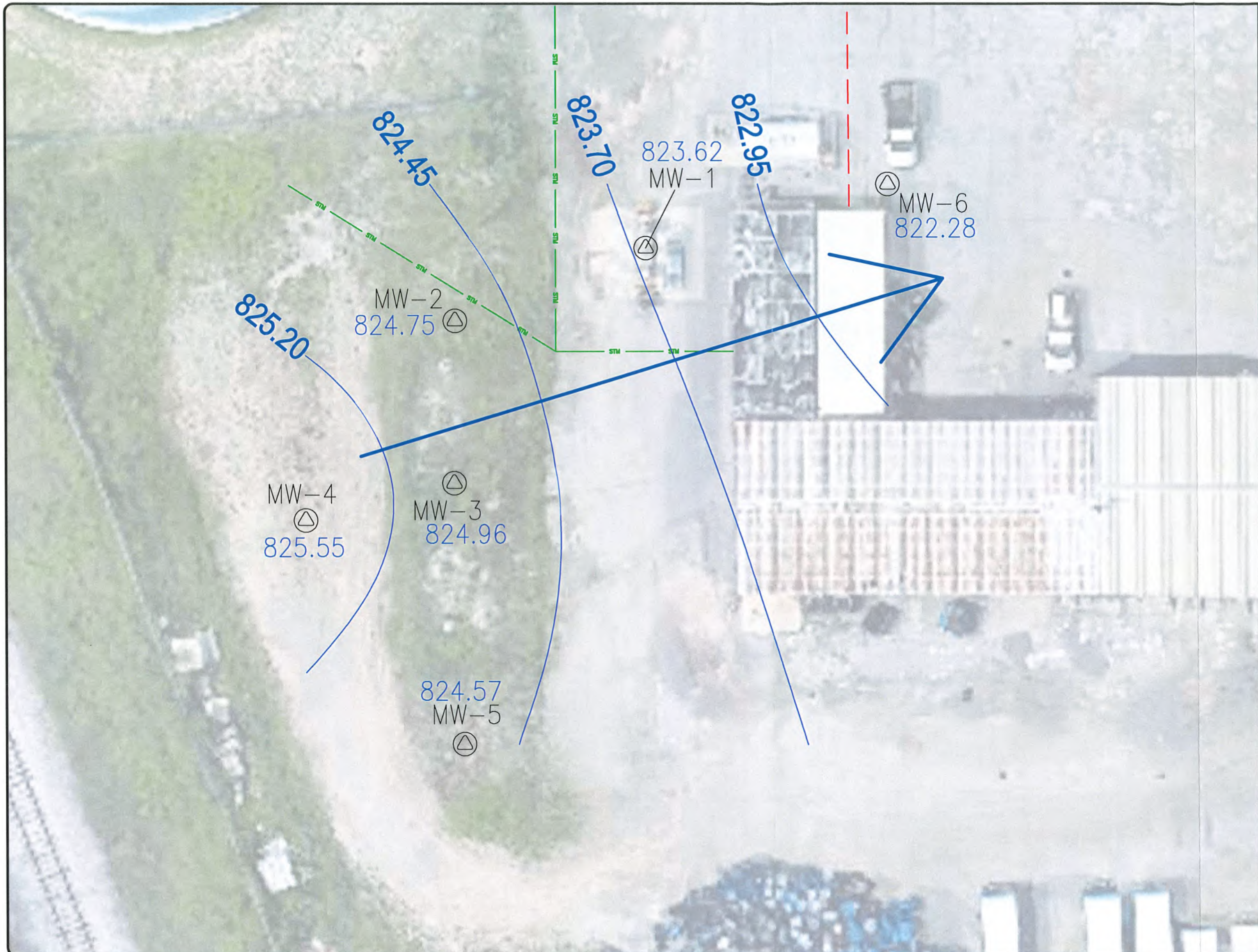
-  MONITORING WELL
-  STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE
-  822.03 GROUNDWATER ELEVATION
-  822.70 GROUNDWATER CONTOUR LINE (0.60 FOOT INTERVAL)
-  GROUNDWATER FLOW DIRECTION









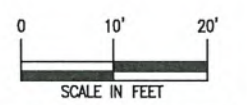
46555 HUMBOLDT DRIVE, SUITE 100
 NOVI, MI 48377
 PH: 248-669-5140
 FAX: 248-669-5147
 EMAIL: WWW.CARDNOATC.COM

DATE: 01/20/21	PROJECT NO.: 188EM200011
DRAWN BY: DLS	SCALE: 1" = 20'
REVIEWED BY: GDB	FIGURE 3B

**GROUNDWATER POTENTIOMETRIC
 SURFACE MAP**
 JANUARY 11, 2021
 MATZAK, INC.
 MUNICIPAL FUEL FARM
 2000 S INDUSTRIAL HIGHWAY
 ANN ARBOR, MICHIGAN



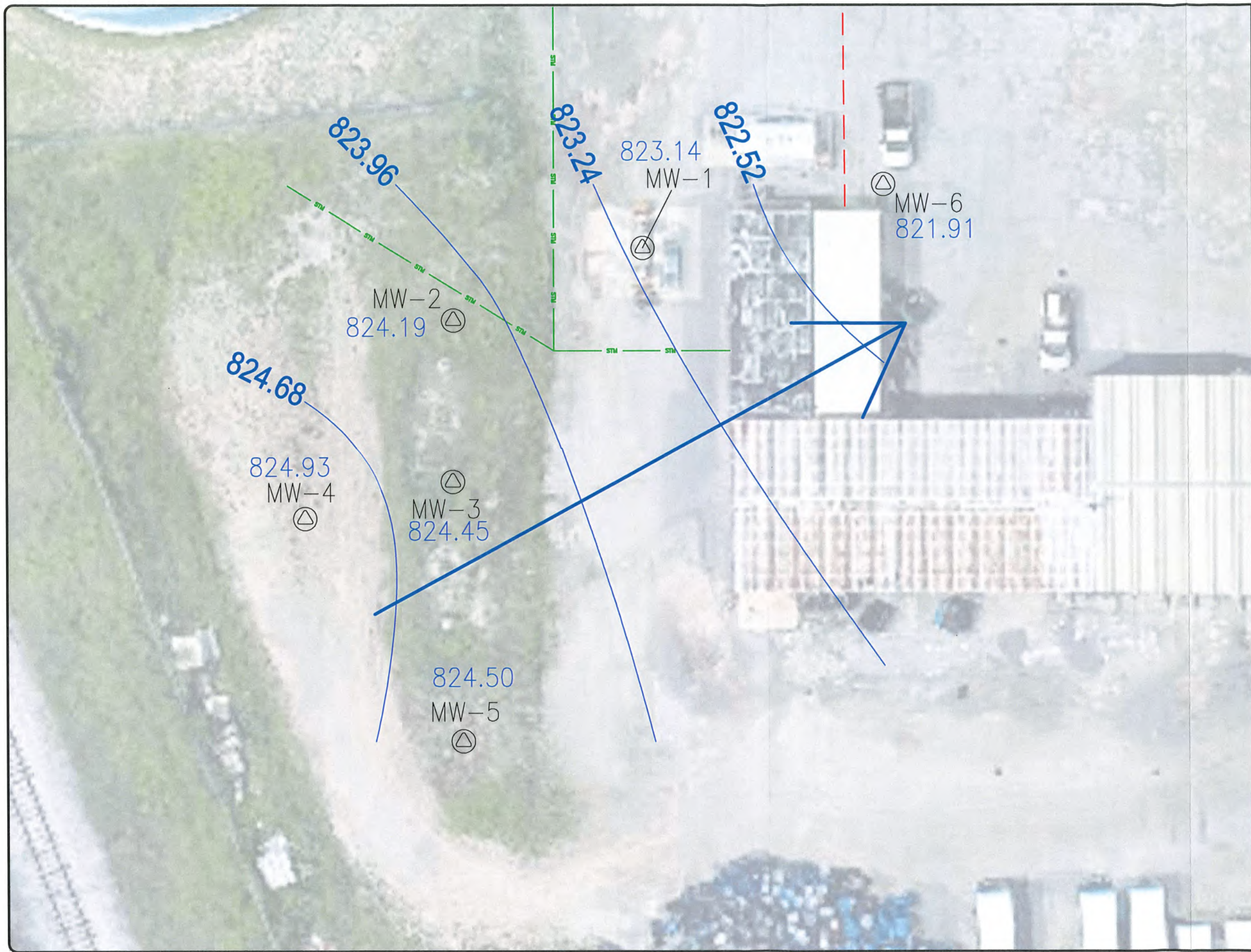
-  MONITORING WELL
-  STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE
-  823.62 GROUNDWATER ELEVATION
-  822.95 GROUNDWATER CONTOUR LINE (0.75 FOOT INTERVAL)
-  GROUNDWATER FLOW DIRECTION









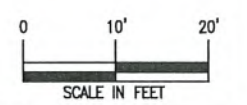
4655 HUMBOLDT DRIVE, SUITE 100
 NOVI, MI 48377
 PH: 248-669-5140
 FAX: 248-669-5147
 EMAIL: WWW.ONEATLAS.COM

DATE: 10/15/2021	PROJECT NO.: 188EM200011
DRAWN BY: JBS	SCALE: 1" = 20'
REVIEWED BY: GDB	FIGURE3C

**GROUNDWATER POTENTIOMETRIC
 SURFACE MAP**
 04/06/2021
 MATZAK, INC.
 MUNICIPAL FUEL FARM
 2000 S INDUSTRIAL HIGHWAY
 ANN ARBOR, MICHIGAN



-  MONITORING WELL
-  STORM SEWER LINE
-  UNDERGROUND ELECTRICAL LINE
-  823.14 GROUNDWATER ELEVATION
-  822.52 GROUNDWATER CONTOUR LINE (0.72 FOOT INTERVAL)
-  GROUNDWATER FLOW DIRECTION



4855 HUMBOLDT DRIVE, SUITE 100
 NCVI, MI 48377
 PH: 248-669-5140
 FAX: 248-669-5147
 EMAIL: WWW.ONEATLAS.COM

DATE: 10/15/2021	PROJECT NO.: 188EM200011
DRAWN BY: JBS	SCALE: 1" = 20'
REVIEWED BY: GDB	FIGURE3D

**GROUNDWATER POTENTIOMETRIC
 SURFACE MAP**
 06/09/2021

MATZAK, INC.
 MUNICIPAL FUEL FARM
 2000 S INDUSTRIAL HIGHWAY
 ANN ARBOR, MICHIGAN

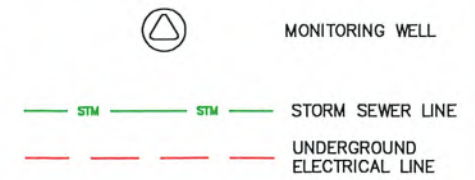
MW-2		MW-2	
10/19/2020		10/19/2020	
7-8'		24-25'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

MW-1		MW-1	
10/19/2020		10/19/2020	
6-7'		19-20'	
E	74	ULG	ND
X	378	PNA	ND
1,2,4	275		
PNA	ND		

MW-6		MW-6	
10/19/2020		10/19/2020	
4-5'		14-15'	
ULG	ND	ULG	ND
BAA	402	PNA	ND
FLA	414		

MW-4		MW-4	
10/19/2020		10/19/2020	
5-6'		19-20'	
ULG	ND	ULG	ND
PNA	ND	PNA	ND

MW-5		MW-5	
10/19/2020		10/19/2020	
7-8'		19-20'	
ULG	ND	ULG	ND
BAA	340	PNA	ND
FLA	450		



- VOLATILES (VOCs)**
- SAMPLE LOCATION
SAMPLE DATE
SAMPLE DEPTH
- B BENZENE (µg/kg)
E ETHYLBENZENE (µg/kg)
T TOLUENE (µg/kg)
X XYLENES (µg/kg)
- 1,2-DB 1,2-DIBROMOETHANE (µg/kg)
1,2-DC 1,2-DICHLOROETHANE (µg/kg)
- M MTBE (µg/kg)
2-M 2-METHYLNAPHTHALENE (µg/kg)
- N NAPHTHALENE (µg/kg)
1,2,4 1,2,4-TMB (µg/kg)
1,3,5 1,3,5-TMB (µg/kg)
ND NOT DETECTED
ULG UNLEADED GASOLINE CONSTITUENTS
NS NOT SAMPLED
- SEMIVOLATILES (SVOCs)**
- PNA POLYNUCLEAR AROMATIC HYDROCARBON
- ACE ACENAPHTHENE (µg/kg)
ACY ACENAPHTHYLENE (µg/kg)
ANT ANTHRACENE (µg/kg)
BAA BENZO(A)ANTHRACENE (µg/kg)
BFP BENZO(B)FLUORANTHENE (µg/kg)
BKF BENZO(K)FLUORANTHENE (µg/kg)
BGP BENZO(G,H)PERYLENE (µg/kg)
BAP BENZO(A)PYRENE (µg/kg)
CHR CHRYSENE (µg/kg)
DAA DIBENZO(A,H)ANTHRACENE (µg/kg)
FLA FLUORANTHENE (µg/kg)
FLO FLUORENE (µg/kg)
IP INDENO(1,2,3-CD)PYRENE (µg/kg)
2-M 2-METHYLNAPHTHALENE (µg/kg)
N NAPHTHALENE (µg/kg)
PHE PHENANTHRENE (µg/kg)
PYR PYRENE (µg/kg)



48555 HUMBOLDT DRIVE, SUITE 100
NOVI, MI 48377
PH: 248-669-5140
FAX: 248-669-5147
EMAIL: WWW.CARDNOATC.COM

DATE: 01/20/21	PROJECT NO.: 188EM200011
DRAWN BY: DLS	SCALE: 1" = 20'
REVIEWED BY: GDB	FIGURE 4

ADSORBED SOIL CONCENTRATIONS 10-19-20

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

MW-2		MW-2		MW-2		MW-2	
10/19/2020		1/11/2021		4/6/2021		1/11/2021	
8-13'		8-13'		8-13'		8-13'	
ULG	ND	ULG	ND	ULG	ND	ULG	ND
PNA	ND	PNA	ND	PNA	ND	PNA	ND

MW-6		MW-6		MW-6		MW-6	
10/19/2020		1/11/2021		4/6/2021		6/9/2021	
4-9'		4-9'		4-9'		4-9'	
ULG	ND	ULG	ND	ULG	ND	ULG	ND
PNA	ND	PNA	ND	PNA	ND	PNA	ND

MW-1		MW-1		MW-1		MW-1	
10/19/2020		1/11/2021		4/6/2021		6/9/2021	
3-8'		3-8'		3-8'		3-8'	
ULG	ND	ULG	ND	T	3.0	T	3.0
PNA	ND	PNA	ND	ULG*	ND	2M	5.0
				PNA	ND	135	5.0
						ULG*	ND
						PNA	ND

MW-4		MW-4		MW-4		MW-4	
10/19/2020		1/11/2021		4/6/2021		6/9/2021	
6-11'		6-11'		6-11'		6-11'	
ULG	ND	ULG	ND	ULG	ND	ULG	ND
PNA	ND	PNA	ND	PNA	ND	PNA	ND

MW-3		MW-3		MW-3		MW-3	
10/19/2020		1/11/2021		4/6/2021		6/9/2021	
5-10'		5-10'		5-10'		5-10'	
ULG	ND	ULG	ND	ULG	ND	ULG	ND
PNA	ND	PNA	ND	PNA	ND	PNA	ND

MW-5		MW-5		MW-5		MW-5	
10/19/2020		1/11/2021		6/6/2021		6/9/2021	
8-13'		8-13'		8-13'		8-13'	
1,2,-D	2.0	ULG	ND	ULG	ND	ULG	ND
MTBE	13.0	PNA	ND	PNA	ND	PNA	ND
ULG*	ND						
PNA	ND						



MONITORING WELL

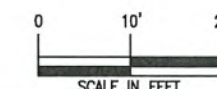
— STM — STM — STORM SEWER LINE

— — — — UNDERGROUND ELECTRICAL LINE

SAMPLE LOCATION
SAMPLE DATA
SCREEN INTERVAL

T TOLUENE
1,2-D 1,2-DICHLOROETHANE
MTBE METHYL-TERT-BUTYL-ETHER
2M 2-METHYLNAPHTHALENE
135 1,3,5-TRIMETHYLBENZENE

ULG -UNLEADED GASOLINE CoCs
ULG* -REMAINING UNLEADED GASOLINE CoCs
PNA -POLYNUCLEAR AROMATIC HYDROCARBON CoCs
ND -NOT DETECTED ABOVE LABORATORY LIMITS



46555 HUMBOLDT DRIVE, SUITE 100
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PH: 248-669-5140
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EMAIL: WWW.ONEATLAS.COM

DATE:
10/13/2021

PROJECT NO.:
188EM20011

DRAWN BY:
JBS

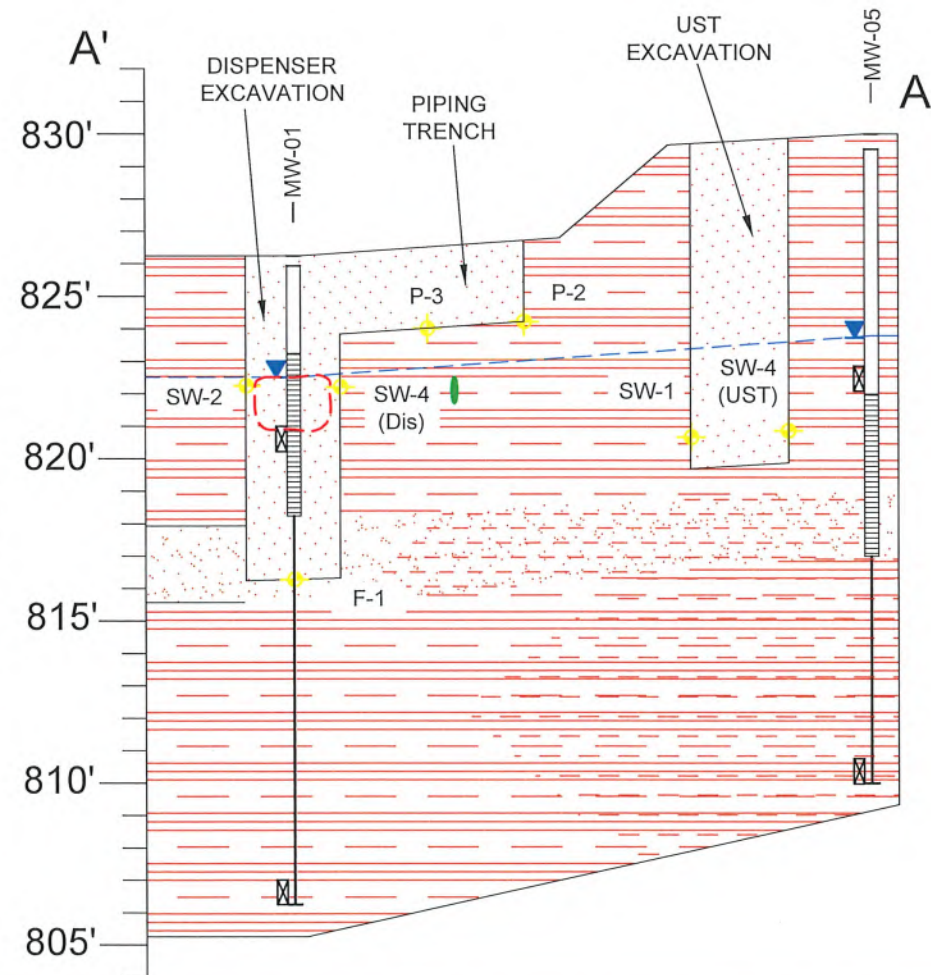
SCALE:
1" = 20'

REVIEWED BY:
GDB

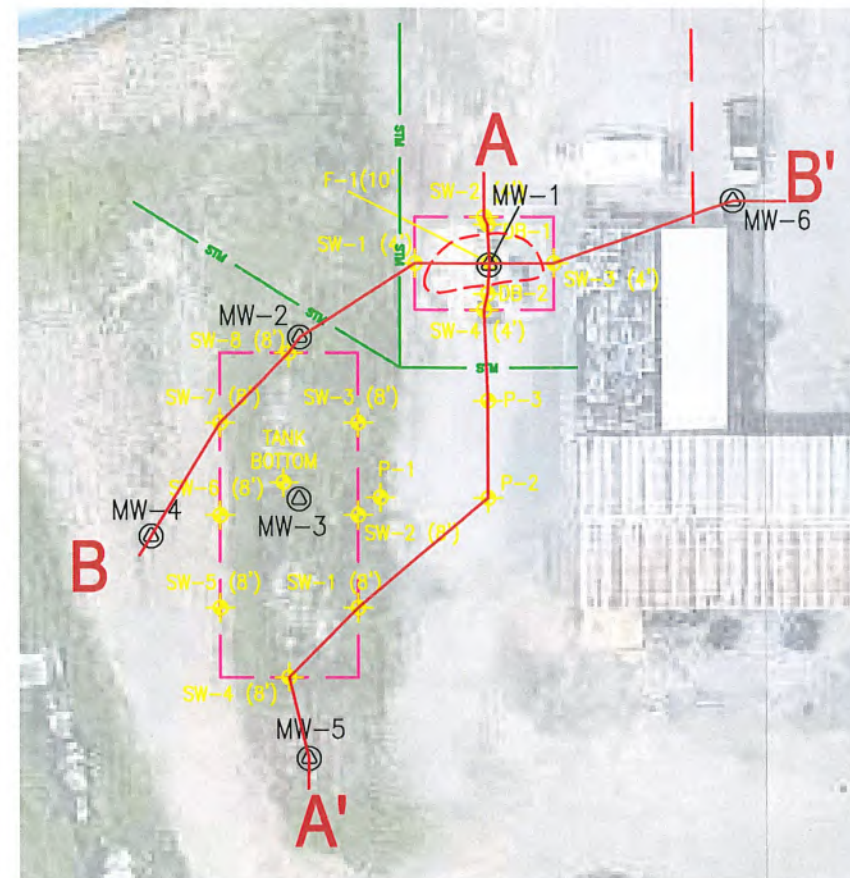
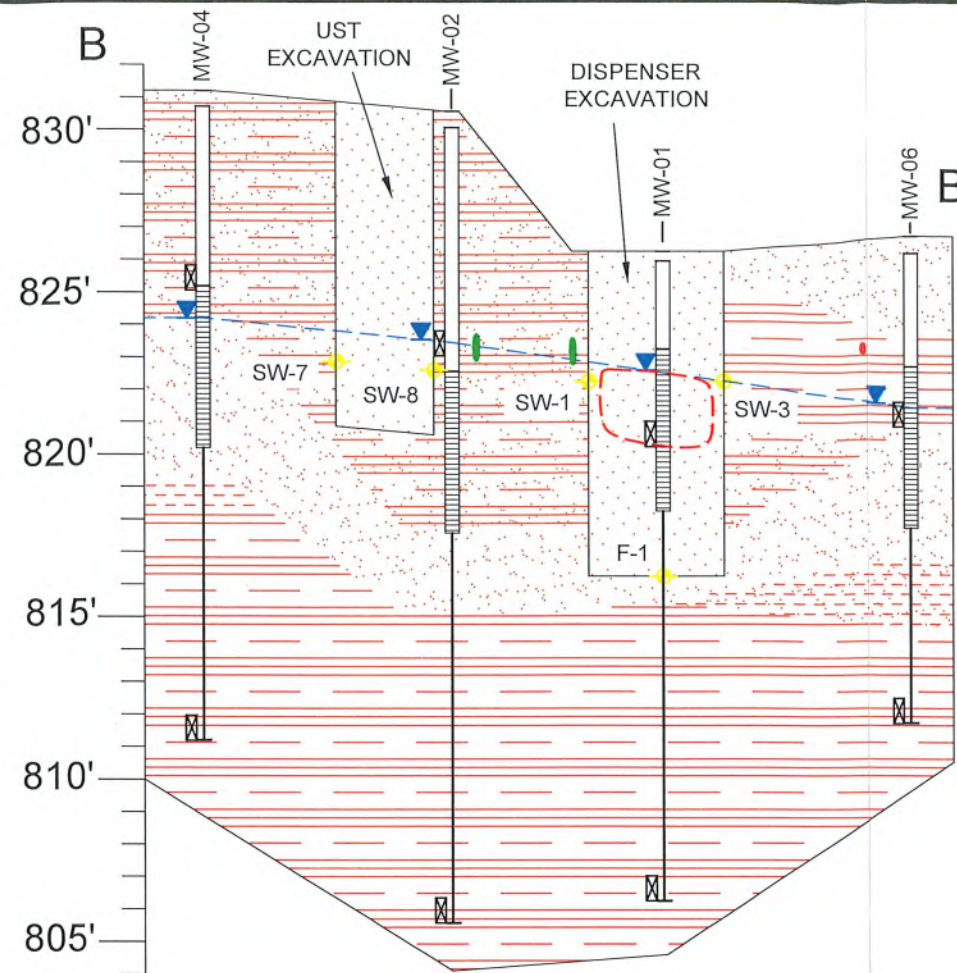
FIGURE 5

COMPREHENSIVE DISSOLVED
GROUNDWATER CONCENTRATIONS
10/19/20 - 6/9/2021
MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

ELEVATION (FEET)
(EXAGGERATED 1:7)



ELEVATION (FEET)
(EXAGGERATED 1:7)



LEGEND

- MONITORING WELL
- EXCAVATION EXTENTS
- STORM SEWER LINE
- UNDERGROUND ELECTRICAL LINE
- CROSS SECTION TRACE LINE
- FORMER EXTENT OF RESIDUAL LNAPL THAT WAS EXCAVATED ON 6/29/2020
- SAND
- CLAY
- SILT
- FILL
- ELECTRIC LINE
- STORM SEWER
- SOIL GRAB SAMPLE
- BORING
SOIL SAMPLE
GROUNDWATER ELEVATION
END OF BORING
SCREEN



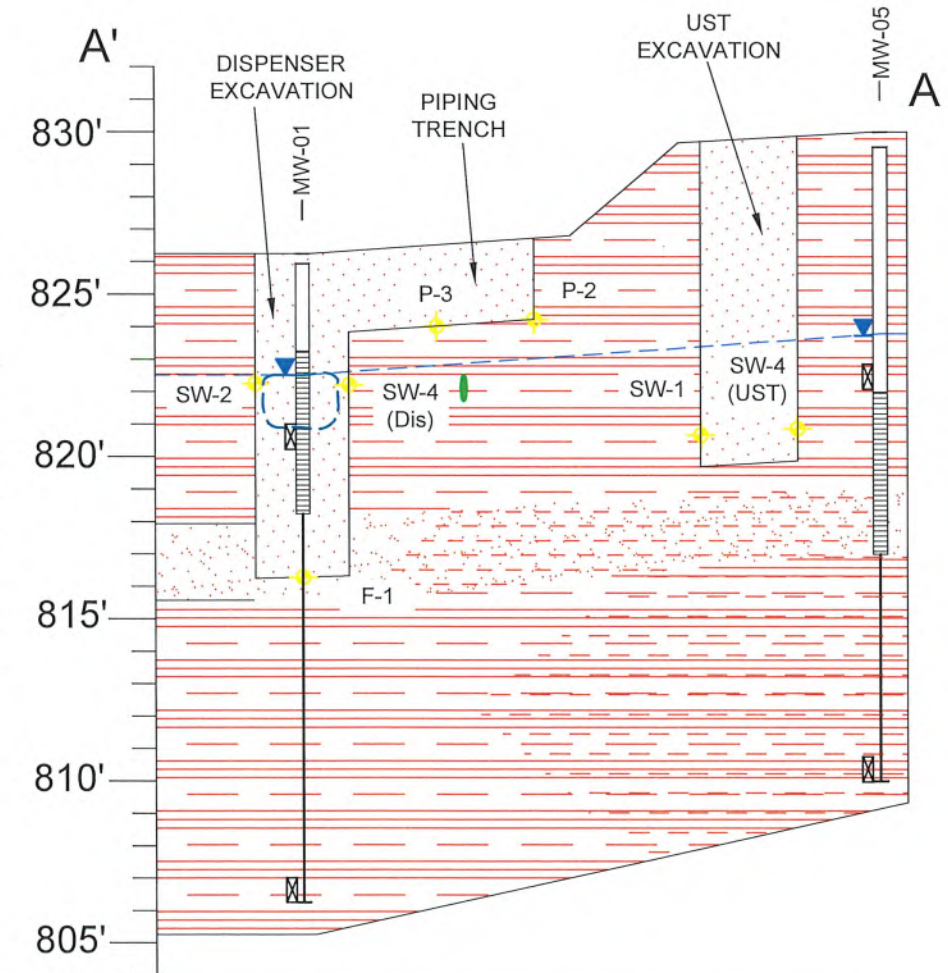
46555 HUMBOLDT DRIVE, SUITE 100
NOVI, MI 48377
PH: 248-669-5140
FAX: 248-669-5147
EMAIL: WWW.ONEATLAS.COM

DATE: 10/18/2021	PROJECT NO.: 188EM200011
DRAWN BY: JBS	SCALE: NO SCALE
REVIEWED BY: GDB	FIGURE 6

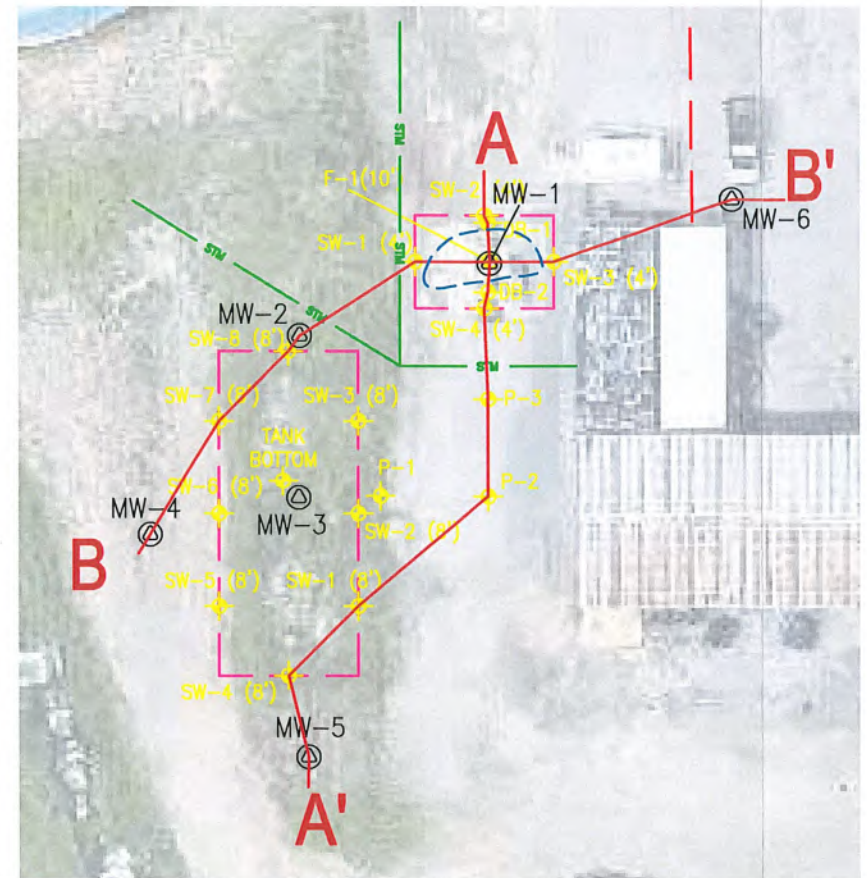
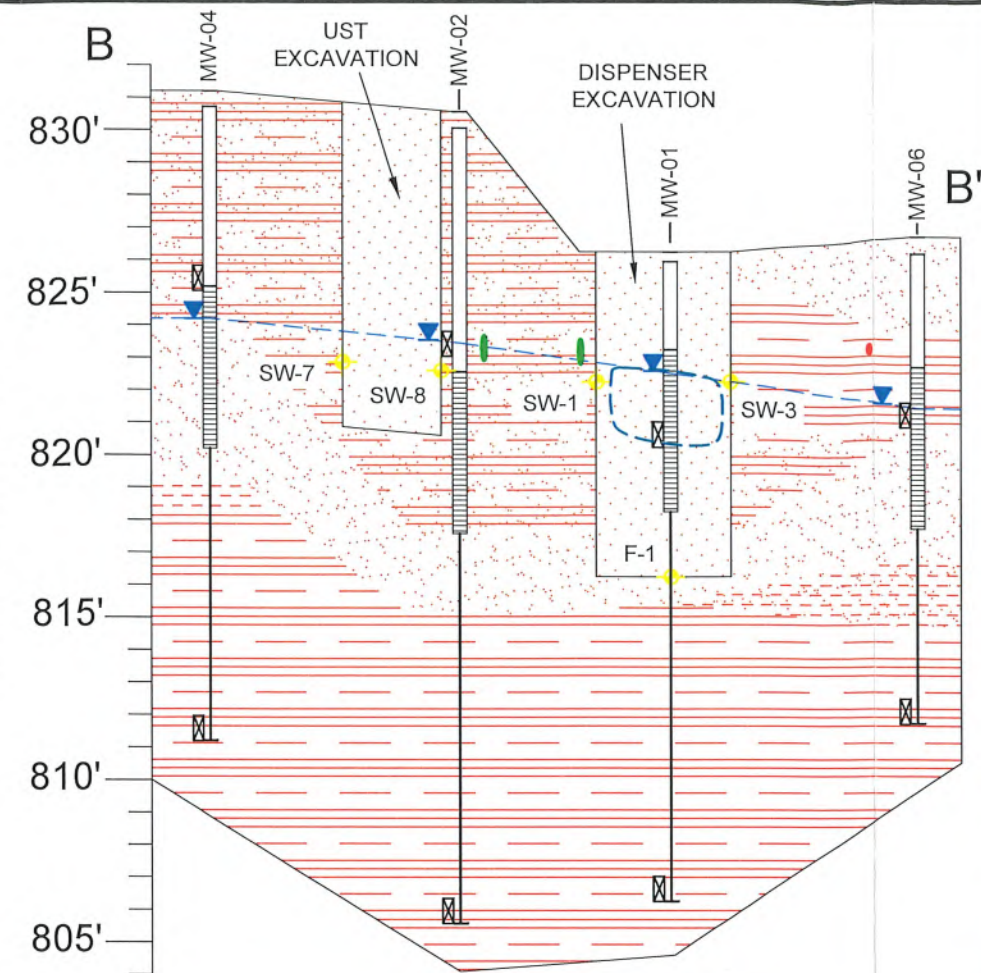
RESIDUAL LNAPL
CONCEPTUAL SITE MODEL

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN

ELEVATION (FEET)
(EXAGGERATED 1:7)



ELEVATION (FEET)
(EXAGGERATED 1:7)



LEGEND

- MONITORING WELL
- EXCAVATION EXTENTS
- STORM SEWER LINE
- UNDERGROUND ELECTRICAL LINE
- CROSS SECTION TRACE LINE
- FORMER EXTENT OF VAPOR INTRUSION THAT WAS EXCAVATED ON 6/29/2020
- SAND
- CLAY
- SILT
- FILL
- ELECTRIC LINE
- STORM SEWER
- SOIL GRAB SAMPLE
- BORING
SOIL SAMPLE
GROUNDWATER ELEVATION
END OF BORING
SCREEN



4655 HUMBOLDT DRIVE, SUITE 100
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DATE: 10/18/2021 PROJECT NO.: 188EM200011

DRAWN BY: JBS SCALE: NO SCALE

REVIEWED BY: GDB FIGURE 7

VAPOR INTRUSION
CONCEPTUAL SITE MODEL

MATZAK, INC.
MUNICIPAL FUEL FARM
2000 S INDUSTRIAL HIGHWAY
ANN ARBOR, MICHIGAN



APPENDIX B

DATA TABLES

TABLE 1 - ANALYTICAL RESULTS: SOIL (10/12/2020)
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237

Laboratory ID: Sample ID: Sample Depth: Sample Date: Sample Fate:	Residential Drinking Water Protection Criteria	GW/SW Interface Protection Criteria	Residential Volatilization to Indoor Air Pathway	Non- Residential Volatilization to Indoor Air Pathway	Residential Direct Contact Criteria & RBSLs	11180-6	11180-7	11180-8	11180-9	11180-11	11180-12	11180-13	11180-14	11180-15	11180-16	11313-1	11313-2	
						UST SW-6	UST SW-7	UST SW-8	Dup-1	Dis SW-1	Dis SW-2	Dis SW-3	Dis SW-4	F-1	Dup-2	MW-1	MW-1	
						8'	8'	8'	UST SW-8	4'	4'	4'	4'	10'	Dis SW-1	6-7'	19-20'	
						7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	7/15/20	10/12/20	10/12/20	
						In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	
Volatiles, VOCs, ug/Kg	Units	CAS No.																
Benzene	ug/kg	71-43-2	100	4,000	1.7 (M) ca	47 (M) ca	1.80E+05	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Ethylbenzene	ug/kg	100-41-4	1,500	360	12 (M) ca	340 ca	2.20E+07	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	74	< 50
Toluene	ug/kg	108-88-3	16,000	5,400	3,700 nc	64,000 (EE) st	5.00E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Xylenes	ug/kg	1330-20-7	5,600	980	280 (J) nc	5,000 (J) nc	4.10E+08	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
1,2-Dibromoethane (EDB)	ug/kg	106-93-4	20 (M); 1.0	110	NA	NA	92	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
1,2-Dichloroethane (DCA)	ug/kg	107-06-2	100	7,200	12 (M) nc	26,000 nc	91,000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Methyl-tert-butyl ether (MTBE)	ug/kg	1634-04-4	800	1.40E+05	74 (M) ca	2,100 ca	1.50E+06	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	1,700 nc	30,000 nc	8.10E+06	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	ug/kg	91-20-3	35,000	730	67 (M) ca	1,900 ca	1.60E+07	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2,4-Trimethylbenzene	ug/kg	95-63-6	2,100	570	150 (JT) nc	2,600 (JT) nc	3.20E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	275
1,3,5-Trimethylbenzene	ug/kg	108-67-8	1,800	1,100	100 (JT) nc	1,800 (JT) nc	3.20E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Semivolatiles, PNAs, ug/Kg																		
Acenaphthene	ug/kg	83-32-9	3.00E+05	8,700	2.0e05 nc	3.6e+06 nc	4.10E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acenaphthylene	ug/kg	208-96-8	5,900	ID	DATA	DATA	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	ug/kg	120-12-7	41,000	ID	1.3e+07 nc	2.2e+08 nc	2.30E+08	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene	ug/kg	56-55-3	NLL	NLL	1.6e+05 (MM) mut	1.1e+07 ca	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene	ug/kg	205-99-2	NLL	NLL	NA	NA	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	ug/kg	207-08-9	NLL	NLL	NA	NA	2.00E+05	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	ug/kg	191-24-2	NLL	NLL	NA	NA	2.50E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene	ug/kg	50-32-8	NLL	NLL	NA	NA	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene	ug/kg	218-01-9	NLL	NLL	NA	NA	2.00E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene	ug/kg	53-70-3	NLL	NLL	NA	NA	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	ug/kg	206-44-0	7.30E+05	5,500	NA	NA	4.60E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluorene	ug/kg	86-73-7	3.90E+05	5,300	4.7e+05 nc	8.3e+06 nc	2.70E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	ug/kg	193-39-5	NLL	NLL	NA	NA	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	1,700 nc	30,000 nc	8.10E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	ug/kg	91-20-3	35,000	730	67 (M) ca	1,900 ca	1.60E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Phenanthrene	ug/kg	85-01-8	56,000	2,100	1,700 nc	29,000 nc	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	ug/kg	129-00-0	4.80E+05	ID	2.5e+07 nc	4.4e+08 nc	2.90E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
BTEX*40 (GRO substitute)																		
BTEX*40 (<250,000 implies NAPL)		NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29,080

800 Red shading indicates analyte exceeds unrestricted Part 213 RBSL
200 Clear shading indicates analyte identified below most restrictive RBSL
<100 Green shading indicates analyte "not Detected" above TDL
NLL EGLE has determined analyte is not likely to leach from soil to groundwater
ID/NA EGLE has not developed criteria for this pathway

TABLE 1 - ANALYTICAL RESULTS: SOIL (10/12/2020)
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237

Laboratory ID: Sample ID: Sample Depth: Sample Date: Sample Fate:			Residential Drinking Water Protection Criteria	GW/SW Interface Protection Criteria	Residential Volatilization to Indoor Air Pathway	Non- Residential Volatilization to Indoor Air Pathway	Residential Direct Contact Criteria & RBSLs	11313-3	11313-4	11313-5	11313-6	11313-7	11313-8	11313-9	11313-10	11313-11	11313-12
Units	CAS No.	MW-2						MW-2	MW-4	MW-4	MW-5	MW-5	Dup-1	MW-6	MW-6	Dup-2	
		7-8'						24-25'	5-6'	19-20'	7-8'	19-20'		4-5'	14-15'		
		10/12/20						10/12/20	10/12/20	10/12/20	10/12/20	10/12/20	10/12/20	10/13/20	10/13/20	10/13/20	
Volatiles, VOCs, ug/Kg								In Place	In Place	In Place	In Place	In Place	In Place	NA	In Place	In Place	NA
Benzene	ug/kg	71-43-2	100	4,000	1.7 (M) ca	47 (M) ca	1.80E+05	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Ethylbenzene	ug/kg	100-41-4	1,500	360	12 (M) ca	340 ca	2.20E+07	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Toluene	ug/kg	108-88-3	16,000	5,400	3,700 nc	64,000 (EE) st	5.00E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Xylenes	ug/kg	1330-20-7	5,600	980	280 (J) nc	5,000 (J) nc	4.10E+08	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150	< 150
1,2-Dibromoethane (EDB)	ug/kg	106-93-4	20 (M); 1.0	110	NA	NA	92	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
1,2-Dichloroethane (DCA)	ug/kg	107-06-2	100	7,200	12 (M) nc	26,000 nc	91,000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Methyl-tert-butyl ether (MTBE)	ug/kg	1634-04-4	800	1.40E+05	74 (M) ca	2,100 ca	1.50E+06	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	1,700 nc	30,000 nc	8.10E+06	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Naphthalene	ug/kg	91-20-3	35,000	730	67 (M) ca	1,900 ca	1.60E+07	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
1,2,4-Trimethylbenzene	ug/kg	95-63-6	2,100	570	150 (JT) nc	2,600 (JT) nc	3.20E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,3,5-Trimethylbenzene	ug/kg	108-67-8	1,800	1,100	100 (JT) nc	1,800 (JT) nc	3.20E+07	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Semivolatiles, PNAs, ug/Kg																	
Acenaphthene	ug/kg	83-32-9	3.00E+05	8,700	2.0e05 nc	3.6e+06 nc	4.10E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Acenaphthylene	ug/kg	208-96-8	5,900	ID	DATA	DATA	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Anthracene	ug/kg	120-12-7	41,000	ID	1.3e+07 nc	2.2e+08 nc	2.30E+08	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)anthracene	ug/kg	56-55-3	NLL	NLL	1.6e+05 (MM) mut	1.1e+07 ca	20,000	< 330	< 330	< 330	< 330	340	< 330	< 330	402	< 330	< 330
Benzo(b)fluoranthene	ug/kg	205-99-2	NLL	NLL	NA	NA	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	ug/kg	207-08-9	NLL	NLL	NA	NA	2.00E+05	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	ug/kg	191-24-2	NLL	NLL	NA	NA	2.50E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Benzo(a)pyrene	ug/kg	50-32-8	NLL	NLL	NA	NA	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Chrysene	ug/kg	218-01-9	NLL	NLL	NA	NA	2.00E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Dibenzo(a,h)anthracene	ug/kg	53-70-3	NLL	NLL	NA	NA	2,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Fluoranthene	ug/kg	206-44-0	7.30E+05	5,500	NA	NA	4.60E+07	< 330	< 330	< 330	< 330	450	< 330	< 330	414	< 330	< 330
Fluorene	ug/kg	86-73-7	3.90E+05	5,300	4.7e+05 nc	8.3e+06 nc	2.70E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	ug/kg	193-39-5	NLL	NLL	NA	NA	20,000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
2-Methylnaphthalene	ug/kg	91-57-6	57,000	4,200	1,700 nc	30,000 nc	8.10E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Naphthalene	ug/kg	91-20-3	35,000	730	67 (M) ca	1,900 ca	1.60E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Phenanthrene	ug/kg	85-01-8	56,000	2,100	1,700 nc	29,000 nc	1.60E+06	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
Pyrene	ug/kg	129-00-0	4.80E+05	ID	2.5e+07 nc	4.4e+08 nc	2.90E+07	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
BTEX*40 (GRO substitute)																	
BTEX*40 (<250,000 implies NAPL)		NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

800 Red shading indicates analyte exceeds unrestricted Part 213 RBSL
200 Clear shading indicates analyte identified below most restrictive RBSL
<100 Green shading indicates analyte "not Detected" above TDL
NLL EGLE has determined analyte is not likely to leach from soil to groundwater
ID/NA EGLE has not developed criteria for this pathway

**TABLE 2 - ANALYTICAL RESULTS: GROUNDWATER
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237**

				Laboratory ID:															
				Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Residential Volatilization to Indoor Air Pathway	Non-Residential Volatilization to Indoor Air Pathway	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Non- Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	11164-1	11322-1	11492-1	11626-1	11734-1	11322-2	11492-2	11626-2	11734-2	
										Sample ID:	Tank Bottom	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2
										Sample Notes:									
										Sample Date	6/29/2020	10/19/2020	1/11/2021	4/6/2021	6/9/2021	10/19/2020	1/11/2021	4/6/2021	6/9/2021
										Report Date:	7/6/2020	10/26/2020	1/18/2021	4/12/2021	6/14/2021	10/26/2020	1/18/2021	4/12/2021	6/14/2021
Volatiles, VOCs, ug/L	Units	CAS No.	TDL																
Benzene	ug/L	71-43-2	1	5.0	200 X	1.0 ca	8.4 ca	5,600	35,000	< 1	< 25	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	100-41-4	1	74	18	2.8 ca	28 ca	1.10E+05	1.7E+5 (S)	1	< 25	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	108-88-3	1	790	270	300 (FF) st	6,600 (FF) st	5.3E+5 (S)	5.3E+5 (S)	5	< 25	< 1	3	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes	ug/L	1330-20-7	3	280	49	75 (J) nc	410 (J) nc	1.9E+5 (S)	1.9E+5 (S)	14	< 75	< 3	< 3	< 0.2	< 3	< 3	< 3	< 3	< 0.2
1,2-Dibromoethane (EDB)	ug/L	106-93-4	0.2	0.05	5.7 X	NA	NA	2,400	15,000		< 5	< 0.2	< 0.2	< 5	< 0.2	< 0.2	< 0.2	< 0.2	< 5
1,2-Dichloroethane	ug/L	107-06-2	1	5.0	360 X	1.4 ca	950 nc	9,600	59,000		< 25	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 5
Methyl-tert-butyl ether (MTBE)	ug/L	1634-04-4	5	40	7100 X	250 ca	810 ca	4.7E+7 (S)	4.7E+7 (S)		< 125	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Methylnaphthalene	ug/L	91-57-6	5	260	19	66 nc	110 nc	25,000 (S)	25,000 (S)		< 125	< 5	< 5	5	< 5	< 5	< 5	< 5	< 1
Naphthalene	ug/L	91-20-3	5	520	11	4.2 (M) ca	12 ca	31,000 (S)	31,000 (S)		< 125	< 5	< 5	< 1	< 5	< 5	< 5	< 5	< 1
1,2,4-Trimethylbenzene	ug/L	95-63-6	1	63	17	25 (JT) nc	120 (JT) nc	56,000 (S)	56,000 (S)		< 25	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	ug/L	108-67-8	1	72	45	18 (JT) nc	110 (JT) nc	61,000 (S)	61,000 (S)		< 25	< 1	< 1	5	< 1	< 1	< 1	< 1	< 3
Semivolatiles, PNAs, ug/L																			
Acenaphthene	ug/L	83-32-9	330	1,300	38	3,900 (S) sol	3,900 (S) sol	4,200 (S)	4,200 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acenaphthylene	ug/L	208-96-8	330	52	ID	65 nc	710 nc	3,900 (S)	3,900 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Anthracene	ug/L	120-12-7	330	43	ID	43 (S) sol	43 (S) sol	43 (S)	43 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzo(a)anthracene	ug/L	56-55-3	330	2.1	ID	9.4 (S) (MM) sol	9.4 (S) sol	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	ug/L	205-99-2	330	1.5	ID	NA	NA	ID	ID	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	ug/L	207-08-9	330	1.0	NA	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	ug/L	191-24-2	330	1.0	ID	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	ug/L	50-32-8	330	5.0	ID	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	ug/L	218-01-9	330	1.6	ID	NA	NA	ID	ID	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	ug/L	53-70-3	330	2.0	ID	NA	NA	NLV	NLV	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Fluoranthene	ug/L	206-44-0	330	210	1.6	NA	NA	210 (S)	210 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	ug/L	86-73-7	330	880	12	1,700 (S) sol	1,700 (S) sol	2,000 (S)	2,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Indeno(1,2,3-cd)pyrene	ug/L	193-39-5	330	2.0	ID	NA	NA	NLV	NLV	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Methylnaphthalene	ug/L	91-57-6	330	260	19	66 nc	110 nc	25,000 (S)	25,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	ug/L	91-20-3	330	520	11	4.2 (M) ca	12 ca	31,000 (S)	31,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Phenanthrene	ug/L	85-01-8	330	52	2.0 M	9.5 nc	15 nc	1,000 (S)	1,000 (S)	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Pyrene	ug/L	129-00-0	330	140	ID	140 (S) sol	140 (S) sol	140 (S)	140 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

800 Red shading indicates analyte exceeds unrestricted Part 213 RBSL
200 Clear shading indicates analyte identified below most restrictive RBSL
<100 Green shading indicates analyte "not Detected" above TDL
Cross hatch pattern indicates parameter not analyzed per BFS instructions
ID/NA EGLE has not developed criteria for this pathway

**TABLE 2 - ANALYTICAL RESULTS: GROUNDWATER
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237**

		Laboratory ID:		Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Residential Volatilization to Indoor Air Pathway	Non-Residential Volatilization to Indoor Air Pathway	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Non- Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	11322-3	11322-7	11492-3	11626-3	11734-3	11322-4	11492-4	11626-4	11734-4	
		Sample ID:								MW-3	Dup 1	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	
		Sample Notes:																	
		Sample Date								10/19/2020	10/19/2020	1/11/2021	4/6/2021	6/9/2021	10/19/2020	1/11/2021	4/6/2021	6/9/2021	
		Report Date:								10/26/2020	10/26/2020	1/18/2021	4/12/2021	6/14/2021	10/26/2020	1/18/2021	4/12/2021	6/14/2021	
Volatiles, VOCs, ug/L	Units	CAS No.	TDL																
Benzene	ug/L	71-43-2	1	5.0	200 X	1.0 ca	8.4 ca	5,600	35,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	100-41-4	1	74	18	2.8 ca	28 ca	1.10E+05	1.7E+5 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	108-88-3	1	790	270	300 (FF) st	6,600 (FF) st	5.3E+5 (S)	5.3E+5 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes	ug/L	1330-20-7	3	280	49	75 (J) nc	410 (J) nc	1.9E+5 (S)	1.9E+5 (S)	< 3	< 3	< 3	< 3	< 0.2	< 3	< 3	< 3	< 3	< 0.2
1,2-Dibromoethane (EDB)	ug/L	106-93-4	0.2	0.05	5.7 X	NA	NA	2,400	15,000	< 0.2	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 0.2	< 0.2	< 0.2	< 5
1,2-Dichloroethane	ug/L	107-06-2	1	5.0	360 X	1.4 ca	950 nc	9,600	59,000	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 1	< 1	< 5
Methyl-tert-butyl ether (MTBE)	ug/L	1634-04-4	5	40	7100 X	250 ca	810 ca	4.7E+7 (S)	4.7E+7 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Methylnaphthalene	ug/L	91-57-6	5	260	19	66 nc	110 nc	25,000 (S)	25,000 (S)	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 5	< 1
Naphthalene	ug/L	91-20-3	5	520	11	4.2 (M) ca	12 ca	31,000 (S)	31,000 (S)	< 5	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 5	< 1
1,2,4-Trimethylbenzene	ug/L	95-63-6	1	63	17	25 (JT) nc	120 (JT) nc	56,000 (S)	56,000 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	ug/L	108-67-8	1	72	45	18 (JT) nc	110 (JT) nc	61,000 (S)	61,000 (S)	< 1	< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 1	< 3
Semivolatiles, PNAs, ug/L																			
Acenaphthene	ug/L	83-32-9	330	1,300	38	3,900 (S) sol	3,900 (S) sol	4,200 (S)	4,200 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acenaphthylene	ug/L	208-96-8	330	52	ID	65 nc	710 nc	3,900 (S)	3,900 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Anthracene	ug/L	120-12-7	330	43	ID	43 (S) sol	43 (S) sol	43 (S)	43 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzo(a)anthracene	ug/L	56-55-3	330	2.1	ID	9.4 (S) (MM) sol	9.4 (S) sol	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	ug/L	205-99-2	330	1.5	ID	NA	NA	ID	ID	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	ug/L	207-08-9	330	1.0	NA	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	ug/L	191-24-2	330	1.0	ID	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	ug/L	50-32-8	330	5.0	ID	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	ug/L	218-01-9	330	1.6	ID	NA	NA	ID	ID	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	ug/L	53-70-3	330	2.0	ID	NA	NA	NLV	NLV	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Fluoranthene	ug/L	206-44-0	330	210	1.6	NA	NA	210 (S)	210 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	ug/L	86-73-7	330	880	12	1,700 (S) sol	1,700 (S) sol	2,000 (S)	2,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Indeno(1,2,3-cd)pyrene	ug/L	193-39-5	330	2.0	ID	NA	NA	NLV	NLV	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Methylnaphthalene	ug/L	91-57-6	330	260	19	66 nc	110 nc	25,000 (S)	25,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	ug/L	91-20-3	330	520	11	4.2 (M) ca	12 ca	31,000 (S)	31,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Phenanthrene	ug/L	85-01-8	330	52	2.0 M	9.5 nc	15 nc	1,000 (S)	1,000 (S)	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Pyrene	ug/L	129-00-0	330	140	ID	140 (S) sol	140 (S) sol	140 (S)	140 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

800 Red shading indicates analyte exceeds unrestricted Part 213 RBSL
200 Clear shading indicates analyte identified below most restrictive RBSL
<100 Green shading indicates analyte "not Detected" above TDL
Cross hatch pattern indicates parameter not analyzed per BFS instructions
ID/NA EGLE has not developed criteria for this pathway

TABLE 2 - ANALYTICAL RESULTS: GROUNDWATER
CITY of ANN ARBOR FUEL FARM
2000 S. INDUSTRIAL, ANN ARBOR, WASHTENAW COUNTY, MI
FACILITY ID No. 10237

				Laboratory ID:	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Residential Volatilization to Indoor Air Pathway	Non-Residential Volatilization to Indoor Air Pathway	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	11322-5	11492-5	11626-5	11734-5	11322-6	11492-6	11626-6	11734-6	11734-7
				Sample ID:							MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	DUP-1
				Sample Notes:															
				Sample Date							10/19/2020	1/11/2021	4/6/2021	6/9/2021	10/19/2020	1/11/2021	4/6/2021	6/9/2021	6/9/2021
				Report Date:							10/26/2020	1/18/2021	4/12/2021	6/14/2021	10/26/2020	1/18/2021	4/12/2021	6/14/2021	6/14/2021
Volatiles, VOCs, ug/L	Units	CAS No.	TDL																
Benzene	ug/L	71-43-2	1	5.0	200 X	1.0 ca	8.4 ca	5,600	35,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	100-41-4	1	74	18	2.8 ca	28 ca	1.10E+05	1.7E+5 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	108-88-3	1	790	270	300 (FF) st	6,600 (FF) st	5.3E+5 (S)	5.3E+5 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylenes	ug/L	1330-20-7	3	280	49	75 (J) nc	410 (J) nc	1.9E+5 (S)	1.9E+5 (S)	< 3	< 3	< 3	< 0.2	< 3	< 3	< 3	< 0.2	< 0.2	< 0.2
1,2-Dibromoethane (EDB)	ug/L	106-93-4	0.2	0.05	5.7 X	NA	NA	2,400	15,000	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 0.2	< 0.2	< 5	< 5	< 5
1,2-Dichloroethane	ug/L	107-06-2	1	5.0	360 X	1.4 ca	950 nc	9,600	59,000	2	< 1	< 1	< 5	< 1	< 1	< 1	< 5	< 5	< 5
Methyl-tert-butyl ether (MTBE)	ug/L	1634-04-4	5	40	7100 X	250 ca	810 ca	4.7E+7 (S)	4.7E+7 (S)	13	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Methylnaphthalene	ug/L	91-57-6	5	260	19	66 nc	110 nc	25,000 (S)	25,000 (S)	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 1	< 1	< 1
Naphthalene	ug/L	91-20-3	5	520	11	4.2 (M) ca	12 ca	31,000 (S)	31,000 (S)	< 5	< 5	< 5	< 1	< 5	< 5	< 5	< 1	< 1	< 1
1,2,4-Trimethylbenzene	ug/L	95-63-6	1	63	17	25 (JT) nc	120 (JT) nc	56,000 (S)	56,000 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	ug/L	108-67-8	1	72	45	18 (JT) nc	110 (JT) nc	61,000 (S)	61,000 (S)	< 1	< 1	< 1	< 3	< 1	< 1	< 1	< 3	< 3	< 3
Semivolatiles, PNAs, ug/L																			
Acenaphthene	ug/L	83-32-9	330	1,300	38	3,900 (S) sol	3,900 (S) sol	4,200 (S)	4,200 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acenaphthylene	ug/L	208-96-8	330	52	ID	65 nc	710 nc	3,900 (S)	3,900 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Anthracene	ug/L	120-12-7	330	43	ID	43 (S) sol	43 (S) sol	43 (S)	43 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzo(a)anthracene	ug/L	56-55-3	330	2.1	ID	9.4 (S) (MM) sol	9.4 (S) sol	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	ug/L	205-99-2	330	1.5	ID	NA	NA	ID	ID	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	ug/L	207-08-9	330	1.0	NA	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(g,h,i)perylene	ug/L	191-24-2	330	1.0	ID	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	ug/L	50-32-8	330	5.0	ID	NA	NA	NLV	NLV	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	ug/L	218-01-9	330	1.6	ID	NA	NA	ID	ID	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	ug/L	53-70-3	330	2.0	ID	NA	NA	NLV	NLV	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Fluoranthene	ug/L	206-44-0	330	210	1.6	NA	NA	210 (S)	210 (S)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	ug/L	86-73-7	330	880	12	1,700 (S) sol	1,700 (S) sol	2,000 (S)	2,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Indeno(1,2,3-cd)pyrene	ug/L	193-39-5	330	2.0	ID	NA	NA	NLV	NLV	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Methylnaphthalene	ug/L	91-57-6	330	260	19	66 nc	110 nc	25,000 (S)	25,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	ug/L	91-20-3	330	520	11	4.2 (M) ca	12 ca	31,000 (S)	31,000 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Phenanthrene	ug/L	85-01-8	330	52	2.0 M	9.5 nc	15 nc	1,000 (S)	1,000 (S)	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Pyrene	ug/L	129-00-0	330	140	ID	140 (S) sol	140 (S) sol	140 (S)	140 (S)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

800 Red shading indicates analyte exceeds unrestricted Part 213 RBSL
200 Clear shading indicates analyte identified below most restrictive RBSL
<100 Green shading indicates analyte "not Detected" above TDL
Cross hatch pattern indicates parameter not analyzed per BFS instructions
ID/NA EGLE has not developed criteria for this pathway



APPENDIX C

SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-1

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/12/20 Ended 10/12/20

Total Depth (ft) 20

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ∇ ATD 5
 \blacktriangledown AD 4

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
			0.0		GRAVEL/CRUSHED LIMESTONE		CAP	
			0.0		SAND - FINE TO MEDIUM GRAINED WITH TRACE GRAVEL, MOIST TO DAMP, BROWN		BENTONITE	
			0.0	SP		WET @ 5'		
5			0.1		CONCRETE AND ASPHALT, WET		SAND 0.010"	5
	(6-7)		0.3		SAND WITH SOME CLAY - MEDIUM TO COARSE GRAINED, GRAY, WET			
			0.1	SP SC				
10			0.1		SILTY CLAY - GRAY, STICKY, DAMP, MEDIUM PLASTIC			
			0.0					
15			0.0	CL				
			0.0					
20	(19-20)		0.0			Bottom of hole at 20 feet		20

S2LOG A EWINN05 ANN ARBOR FUEL FARM.GPJ LOG A EWINN05.GDT 10/26/20



Remarks: Screen set (3-8')

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-2

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/12/20 Ended 10/12/20

Total Depth (ft) 25

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ∇ ATD 10

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
0.0						TOPSOIL AND FINE TO MEDIUM GRAINED BROWN SAND	CAP	
0.0				CL		SANDY CLAY - WITH FINE TO MEDIUM GRAINED SAND AND TRACE GRAVEL, BROWN, MOIST, SEMI-PLASTIC WITH SOME MOTTLING		
0.1							BENTONITE	
4.8	(7-8)			CL		SANDY CLAY - GRAY WITH SOME GREEN AND BLACK, MOIST/DAMP, DENSE, LITTLE PLASTIC		
1.2				CL		SANDY CLAY - WITH SOME MEDIUM TO COARSE GRAINED SAND SEAMS AND TRACE GRAVEL, LITTLE GREEN AND BLACK, SEMI-PLASTIC, WET		
0.7							SAND 0.010"	
0.6						CONCRETE @ 12' NO RECOVERY		
0.3				SP		SAND - MEDIUM TO COARSE GRAINED WITH SOME GRAVEL, WET		
0.0						SILTY CLAY - WITH FINE GRAINED SAND SEAMS (<1" EACH) BETWEEN 16-18', STICKY, PLASTIC		
0.0						NO SAND SEAMS BETWEEN 18-25'		
0.0				CL ML				
0.0								
0.0								
0.0	(24-25)							
						Bottom of hole at 25 feet		

52LOG A EWINN05 ANN ARBOR FUEL FARM.GPJ LOG A EWINN05.GDT 10/26/20



Remarks: Screen set (8-13')

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-3

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/12/20 Ended 10/12/20

Total Depth (ft) 13

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ∇ ATD 6.5

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
0.0						FILL SAND - BROWN FINE TO MEDIUM GRAINED WITH SOME CLAY AND TRACE GRAVEL, MOIST	CAP	0.0
2.0							BENTONITE	2.0
4.0								4.0
6.0						CRUSHED LIMESTONE AND GRAVEL, WET		6.0
8.0							SAND 0.010"	8.0
10.0				SP		SAND - MEDIUM TO COARSE GRAINED, BROWN, WET/SATURATED		10.0
12.0				SP		SAND - FINE TO MEDIUM GRAINED, BROWN WET		12.0
12.5						PEASTONE, WET		12.5
13.0						CONCRETE (BOTTOM OF FORMER UST PAD)		13.0
13.0						Bottom of hole at 13 feet		13.0
14.0								14.0

52LOG A EWNN05 ANN ARBOR FUEL FARM.GPJ LOG A EWNN05.GDT 10/26/20



Remarks: Screen set (5-10'). No soil samples collected - well installed in excavation backfill of former UST pit.

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-4

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/12/20 Ended 10/12/20

Total Depth (ft) 20

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ∇ ATD 7.5

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
			0.0		GRAVEL AND FILL SAND		CAP	
					ASPHALT			
					GRAVEL/CRUSHED LIMESTONE			
			3.2	CL	SANDY CLAY - WITH TRACE GRAVEL, DARK BROWN/GRAY WITH LITTLE BLACK STAINING, CRUMBLY, NON-PLASTIC, MOIST		BENTONITE	
					CONCRETE			
			5.7	SC	SAND WITH CLAY - BLACK, WITH MEDIUM TO COARSE TRAINED SAND AND TRACE GRAVEL, MOIST			5
	(5-6')				BRICK FRAGMENTS			
					TOPSOIL HORIZON			
			1.4	CL	SANDY CLAY - BLACK/GRAY WITH SOME GREEN, MOIST			
					SAND - MEDIUM TO COARSE GRAINED WITH SOME GRAVEL, BROWN/RED, WET			
			0.8	SP	GRAY FROM 10-10.5		SAND 0.010"	10
			0.3	SM	SILTY SAND - FINE TO MEDIUM GRAINED, GRAY, WET			
			0.1	ML	SILT - GRAY			
			0.0		SILTY CLAY - GRAY WITH SOME <1" THICK FINE GRAINED SAND SEAMS, STICKY, DENSE			15
			0.0	CL ML				
	(19-20')		0.0					20
						Bottom of hole at 20 feet		

52LOG A EWINN05 ANN ARBOR FUEL FARM.GPJ LOG A EWINN05.GDT 10/26/20



Remarks: Screen set (6-11')

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm Location 2000 S. Industrial Highway, Ann Arbor, Michigan **LOG MW-5**
 SHEET 1 OF 1
 Client Ann Arbor Bus Garage Drill Method Geoprobe/Direct Push Elevation (ft amsl) --
 Prj. No. 188EM20011 Drilling Started 10/12/20 Ended 10/12/20 Total Depth (ft) 20
 Logged By R. Scott Drill Contractor Alluvial Earth Depth To Water (ft) ▽ ATD 9

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
0.0					TOPSOIL AND GRAVEL		CAP	0.0
0.0					SANDY CLAY - WITH SOME GRAVEL, DARK BROWN/GRAY, CRUMBLY, NON-PLASTIC, DAMP			0.0
					WET STARTING @ 7'			
5				CL			BENTONITE	5
	(7-8')							
10				SP		SAND - MEDIUM TO COARSE GRAINED WITH SOME GRAVEL, WET, GRAY		10
				SP SM		SAND AND SILT - FINE TO MEDIUM GRAINED, GRAY, WET/SATURATED	SAND 0.010"	
15				CL ML		SILTY CLAY - GRAY WITH SOME <1" FINE GRAINED SAND/SILT SEAMS, STICKY, DENSE		15
20						Bottom of hole at 20 feet		20
	(19-20')							

52 LOG A. EWING05 ANN ARBOR FUEL FARM.GPJ LOG A. EWING05.GDT 10/26/20



Remarks: Screen set (8-13')

See key sheet for symbols and abbreviations used above.

Project Ann Arbor Municipal Fuel Farm

Location 2000 S. Industrial Highway, Ann Arbor, Michigan

LOG MW-6

SHEET 1 OF 1

Client Ann Arbor Bus Garage

Drill Method Geoprobe/Direct Push

Elevation (ft amsl) --

Prj. No. 188EM20011

Drilling Started 10/13/20 Ended 10/13/20

Total Depth (ft) 15

Logged By R. Scott

Drill Contractor Alluvial Earth

Depth To Water (ft) ▽ ATD 5.5

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	COMPLETION DETAILS	DEPTH FEET
0.0					ASPHALT		CAP	0
0.0			0.0	SP	SAND - MEDIUM TO COARSE GRAINED WITH GRAVEL AND SOME CLAY, BROWN, DAMP		BENTONITE	2
0.0			0.0	CL	SANDY CLAY - BLACK (ORGANIC), SEMI-PLASTIC, MOIST			4
0.5	(4-5)		0.5		CONCRETE AND GRAVEL			6
0.1			0.1	SP	SAND - MEDIUM TO COARSE GRAINED WITH TRACE GRAVEL AND LITTLE CLAY, GRAY, WET		SAND 0.010"	8
0.1			0.1	SM	SAND AND SILT - FINE GRAINED, GRAY, WET			10
0.0			0.0	CL ML	SILTY CLAY - SOME <1" FINE GRAINED SAND SEAMS, GRAY, STICKY, DENSE, LITTLE PLASTIC			12
0.0	(14-15)		0.0					14
						Bottom of hole at 15 feet		16

52 LOG A. EWING5 ANN ARBOR FUEL FARM.GPJ LOG A. EWING5.GDT 10/26/20



Remarks: Screen set (4-9')

See key sheet for symbols and abbreviations used above.



APPENDIX D

FINANCIAL ASSURANCE MECHANISM

CHUBB®

ACE American Insurance Company
525 West Monroe Street
Chicago, IL 60661

Premises Pollution Liability Insurance Policy

(claims-made coverage)

Coverage Quotation

CHUBB ENVIRONMENTAL

DATE: 01/30/2019
TO: **Nikole Moore**
Hylant Group Inc
2401 West Big Beaver Road, Suite 400
Troy, Michigan 48084
nikole.moore@hylant.com

QUOTATION # 3 (This quote supersedes and replaces quote #2 dated 01/14/2019)

INSURER: ACE American Insurance Company
A.M. BEST RATING: A++ XV
FIRST NAMED INSURED: City of Ann Arbor
ADDRESS: 301 East Huron Street
Ann Arbor, Michigan 48107-8647

INCEPTION DATE: 02/19/2019
EXPIRATION DATE: 02/19/2022

RETROACTIVE DATES:

Coverage A

Premises Pollution Condition Liability:	02/19/2013
Premises Indoor Environmental Condition Liability:	N/A - Excluded
Premises Pollution Condition First-Party Claims:	02/19/2013
Premises Indoor Environmental Condition First-Party Claims:	N/A - Excluded

Coverage B

Transportation Liability:	02/19/2013
Transportation First-Party Claims:	02/19/2013

Coverage C

Non-Owned Disposal Sites Liability:	02/19/2013
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If "FULL RETRO" is indicated in the Retroactive Date column above, then retroactive coverage is afforded pursuant to this Policy for that specific exposure, subject to any other corresponding exposure-specific Retroactive Date added to this Policy by endorsement.

BUSINESS INTERRUPTION LOSS DEDUCTIBLE:

N/A Days Per Pollution Condition or Indoor Environmental Condition for Business Interruption Loss

LIMITS / SIR / TERM / PREMIUM:

LIMITS OF LIABILITY	SELF-INSURED RETENTION	TERM (YEARS)	PREMIUM	TRIA PREMIUM*
\$3,000,000 Per Pollution Condition or Indoor Environmental Condition/ \$6,000,000 Aggregate All Pollution Conditions or Indoor Environmental Condition	\$50,000 Per Pollution Condition or Indoor Environmental Condition	3	\$33,752	\$1,688

The premium in this quote includes commission in an amount equal to 0% of such premium.

COMMISSION: NET (0%)

***THE OPTIONAL TERRORISM RISK INSURANCE ACT (TRIA) PREMIUM AS QUOTED ABOVE IS THE ADDITIONAL PREMIUM THAT WILL BE INCLUDED IN THE TOTAL PREMIUM FOR THIS POLICY IF TRIA COVERAGE IS ELECTED. THIS CHARGE IS FOR TRIA COVERAGE PER THE ATTACHED DISCLOSURE LETTER. WE MUST RECEIVE A SIGNED COPY OF THE ATTACHED DISCLOSURE LETTER INDICATING THAT TRIA COVERAGE HAS BEEN ACCEPTED OR DECLINED.**

TERMS & CONDITIONS	
Covered Locations:	As Per V. DEFINITIONS, K. "Covered location"
Policy Form:	PF-44887a (01/17) Premises Pollution Liability Insurance Policy <u>QUOTED COVERAGES</u> <input checked="" type="checkbox"/> A. POLLUTION CONDITIONS OR INDOOR ENVIRONMENTAL CONDITIONS COVERAGE <input checked="" type="checkbox"/> B. TRANSPORTATION COVERAGE <input checked="" type="checkbox"/> C. NON-OWNED DISPOSAL SITE COVERAGE
Additional Terms and Conditions:	<ol style="list-style-type: none"> 1. Premium is 25% Minimum-Earned as of inception of the Policy 2. PF-48608 (01/17) Business Interruption Coverage Limitations Endorsement 3. PF-45389a (01/17) Closure, Removal or Replacement Exclusionary (Underground Storage Tanks) Endorsement 4. PF-44916 (09/14) Covered Storage Tank Schedule (Financial Responsibility) Endorsement 5. PF-44932a (01/17) Exposure-Specific Dedicated Limits For Financial Responsibility (USTs - Via General Aggregate Sublimit – Multi-Year) Endorsement 6. PF-46966 (09/15) Known Conditions Exclusion Amendatory Endorsement 7. PF-44957 (09/14) Notice of Cancellation Amendatory (Generic Time Frame) Endorsement 8. PF-44963 (09/14) Other Insurance (Primary) Endorsement 9. PF-44967 (09/14) Premium Earn-Out (Staggered - One Year - Acceleration) Endorsement 10. PF-44971b (01/17) Public Entity Coverage Amendatory Endorsement 11. PF-44913 (09/14) Schedule of Covered Locations Schedule Endorsement 12. ALL-21101 (11/06) Trade Or Economic Sanctions Endorsement 13. LD-2S69d (03/11) Michigan Changes - Cancellation And Nonrenewal 14. CC-1K11i (02/18) Signatures 15. ALL-30463 (08/10) Michigan Disclaimer Notice Commercial Lines Deregulation 16. ALL-20887a (03/16) Chubb Producer Compensation Practices & Policies 17. ILP 001 01 04 U. S. Treasury Department's Office of Foreign Assets Control ("OFAC") Advisory Notice to Policyholders

TRIA Forms:	<p>IF THE INSURED ELECTS TO PURCHASE TERRORISM COVERAGE PER THE ATTACHED DISCLOSURE LETTER FOR THE ADDITIONAL PREMIUM NOTED ABOVE, THE FOLLOWING ENDORSEMENTS WILL APPLY:</p> <ol style="list-style-type: none"> 1. PF-23728a (01/15) Terrorism Risk Insurance Act Endorsement 2. TRIA11c (01/15) Disclosure Pursuant To Terrorism Risk Insurance Act <p>IF THE INSURED ELECTS TO DECLINE TERRORISM COVERAGE PER THE ATTACHED DISCLOSURE LETTER, THE FOLLOWING ENDORSEMENTS WILL APPLY:</p> <ol style="list-style-type: none"> 1. TRIA24 (01/15) Policyholder Disclosure Notice of Terrorism Insurance Coverage
Value-Added Services	<p>Chubb Environmental is committed to developing long-term relationships with our valued insureds. It is our philosophy to partner with our insureds and become an extension of their risk management team, in an effort to enhance the environmental risk management culture within their organization. Working with our insured's risk management team, Chubb Environmental will utilize Environmental Incident Alert, in addition to ESIS Health, Safety and Environmental Services, a Chubb loss control subsidiary, to customize and deliver quality environmental engineering risk control services focused on helping them minimize potential loss exposures. Environmental Incident Alert is a complimentary program developed to assist Chubb Environmental clients find and dispatch qualified incident response contractors, monitor cleanup costs (in real time) and mitigate potential liabilities associated with environmental releases.</p>

ALL TERMS, CONDITIONS, AND PRICING ARE SUBJECT TO RECEIPT, REVIEW, AND APPROVAL OF THE FOLLOWING, PRIOR TO BINDING:	
1.	Completed, signed and dated Chubb Environmental application
2.	Completed and signed attached TRIA disclosure form
3.	Three (3) years of currently-valued, carrier generated Property, GL and AL loss runs with details
4.	Current (within past 12 months) Automatic Tank Gauging leak detection reports or tank tightness tests for each scheduled UST.

Policy Form	<p>PF-44887a (01/17) Premises Pollution Liability Insurance Policy</p> <p>This quotation contemplates the use of Chubb forms, issued on the paper indicated above in this document. All terms and conditions are per those forms and endorsements unless otherwise noted herein.</p>
OFAC	<p>OFAC NOTICE: The Office of Foreign Assets Control (OFAC) administers and enforces sanctions policy, based on Presidential declarations of "national emergency." OFAC has identified and listed numerous Foreign agents, Front organizations, Terrorists, Terrorist organizations, and Narcotics traffickers as "Specially Designated Nationals and Blocked Persons." This list can be located on the United States Treasury's web site – http://www.treas.gov/ofac. In accordance with OFAC regulations, if it is determined that you or any other proposed named insured has violated U.S. sanctions law or is a Specially Designated National or Blocked Person, as identified by OFAC, we reserve the right to withdraw this quote at any time prior to binding.</p>
TRIA	<p>TRIA NOTICE: Presently, the Terrorism Risk Insurance Act ("TRIA") expires on 12/31/20. The premium quoted above includes a separate premium charge for terrorism coverage over the entire Policy Period. In the unlikely event that you elect to receive TRIA coverage and it is not renewed before 12/31/20, or TRIA otherwise expires at some point during the Policy Period, we will refund the unearned portion of our TRIA premium to you on a pro-rata basis. In the event that new legislation is enacted requiring the Insurer to offer coverage for terrorism that is materially different than the coverage requirements included in the current version of TRIA that expires on 12/31/20, the Chubb Companies reserve the right to re-price and tailor TRIA coverage to conform with the statutory requirements and risks presented in the new legislation.</p>
FATCA	<p>The U.S. Foreign Account Tax Compliance Act, commonly known as "FATCA", became the law in the U.S. in March of 2010 and becomes effective July 1, 2014. Pursuant to FATCA, brokers, producers, agents and/or clients may need to obtain withholding certificates from insurance companies. For information on how to obtain the applicable withholding certificate from Chubb U.S. insurance companies, please go to http://www2.chubb.com/us-en/u-s-foreign-account-tax-compliance-act-fatca.aspx.</p>

Disclaimer	<p>Please read this quotation carefully, as the limits, coverage and other terms and conditions may vary significantly from those requested in your submission and/or from the expiring policy. Terms and conditions that are not specifically mentioned in this quotation are not included. The terms and conditions of this quotation supersede the submitted insurance specifications and all prior proposals and binders. Actual coverage will be provided by and in accordance with the policy as issued.</p> <p>The insurer is not bound by any statements made in the submission purporting to bind the insurer unless such statement is reflected in the policy or in an agreement signed by someone authorized to bind the insurer.</p> <p>This quotation has been constructed on reliance of the data provided in the submission. A material change or misrepresentation of that data voids this quotation.</p>
Premium Payment	<p>IN THE EVENT COVERAGE IS BOUND, THE PREMIUM INDICATED ABOVE MUST BE REMITTED TO US WITHIN THIRTY (30) DAYS FROM THE DATE OF THE INVOICE AS OUTLINED ON YOUR AGENCY'S MONTHLY STATEMENT BILL.</p>
eDelivery	<p>Acceptance of this quote indicates the insured's consent to accept delivery of the policy by electronic means, including delivery of the policy as an e-mail attachment. We will deliver the policy to the email address shown above. If the insured would like to withdraw their consent to electronic delivery and exclusively receive a printed paper copy of the policy, please contact the undersigned.</p>
Quotation Expiration	<p>THIS BINDABLE QUOTATION SHALL EXPIRE AT 5:00 pm E.S.T. on: 02/18/2019</p>

Thank you for the opportunity to quote on this risk. For underwriting questions or concerns, please contact Michelle Lawson at 312-775-3130 (phone) or Michelle.Lawson@chubb.com (email).

**POLICYHOLDER DISCLOSURE
NOTICE OF TERRORISM
INSURANCE COVERAGE**

You are hereby notified that under the Terrorism Risk Insurance Act, as amended, you have a right to purchase insurance coverage for losses resulting from acts of terrorism. *As defined in Section 102(1) of the Act:* The term "act of terrorism" means any act or acts that are certified by the Secretary of the Treasury---in consultation with the Secretary of Homeland Security, and the Attorney General of the United States---to be an act of terrorism; to be a violent act or an act that is dangerous to human life, property, or infrastructure; to have resulted in damage within the United States, or outside the United States in the case of certain air carriers or vessels or the premises of a United States mission; and to have been committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.

YOU SHOULD KNOW THAT WHERE COVERAGE IS PROVIDED BY THIS POLICY FOR LOSSES RESULTING FROM CERTIFIED ACTS OF TERRORISM, SUCH LOSSES MAY BE PARTIALLY REIMBURSED BY THE UNITED STATES GOVERNMENT UNDER A FORMULA ESTABLISHED BY FEDERAL LAW. HOWEVER, YOUR POLICY MAY CONTAIN OTHER EXCLUSIONS WHICH MIGHT AFFECT YOUR COVERAGE, SUCH AS AN EXCLUSION FOR NUCLEAR EVENTS. UNDER THE FORMULA, THE UNITED STATES GOVERNMENT GENERALLY REIMBURSES 85% THROUGH 2015, 84% BEGINNING ON JANUARY 1, 2016; 83% BEGINNING ON JANUARY 1, 2017, 82% BEGINNING ON JANUARY 1, 2018; 81% BEGINNING ON JANUARY 1, 2019 and 80% BEGINNING ON JANUARY 1, 2020, OF COVERED TERRORISM LOSSES EXCEEDING THE STATUTORILY ESTABLISHED DEDUCTIBLE PAID BY THE INSURANCE COMPANY PROVIDING THE COVERAGE. THE PREMIUM CHARGED FOR THIS COVERAGE IS PROVIDED BELOW AND DOES NOT INCLUDE ANY CHARGES FOR THE PORTION OF LOSS THAT MAY BE COVERED BY THE FEDERAL GOVERNMENT UNDER THE ACT.

YOU SHOULD ALSO KNOW THAT THE TERRORISM RISK INSURANCE ACT, AS AMENDED, CONTAINS A \$100 BILLION CAP THAT LIMITS U.S. GOVERNMENT REIMBURSEMENT AS WELL AS INSURERS' LIABILITY FOR LOSSES RESULTING FROM CERTIFIED ACTS OF TERRORISM WHEN THE AMOUNT OF SUCH LOSSES IN ANY ONE CALENDAR YEAR EXCEEDS \$100 BILLION. IF THE AGGREGATE INSURED LOSSES FOR ALL INSURERS EXCEED \$100 BILLION, YOUR COVERAGE MAY BE REDUCED.

Acceptance or Rejection of Terrorism Insurance Coverage

	I hereby elect to purchase terrorism coverage for a prospective premium of \$1,688
	I hereby decline to purchase terrorism coverage for certified acts of terrorism. I understand that I will have no coverage for losses resulting from certified acts of terrorism.

Policyholder/Applicant's Signature

Illinois Union Insurance Company
Insurance Company

Print Name

TBD

Policy Number

Date

ACE American Insurance Company
Philadelphia, Pennsylvania

Declarations

This Policy is issued by the stock insurance company identified above (hereinafter *the Insurer*).

THIS POLICY PROVIDES LIABILITY COVERAGE ON A CLAIMS-MADE AND REPORTED BASIS, WHICH COVERS ONLY CLAIMS FIRST MADE AGAINST THE INSURED DURING THE POLICY PERIOD AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD OR WITHIN THIRTY DAYS THEREAFTER, UNLESS AN EXTENDED REPORTING PERIOD APPLIES. THIS POLICY ALSO PROVIDES FIRST-PARTY COVERAGES ON A DISCOVERED AND REPORTED BASIS, WHICH COVERS ONLY POLLUTION CONDITIONS AND INDOOR ENVIRONMENTAL CONDITIONS, AS APPLICABLE, FIRST DISCOVERED DURING THE POLICY PERIOD AND FOR WHICH A FIRST-PARTY CLAIM IS REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD OR WITHIN THIRTY DAYS THEREAFTER. FINALLY, THIS POLICY PROVIDES COVERAGE FOR EMERGENCY RESPONSE COSTS THAT IS LIMITED BY MORE SPECIFIC REPORTING CRITERIA AND COVERS ONLY EMERGENCY RESPONSE COSTS INCURRED, AND REPORTED TO THE INSURER, IN WRITING, WITHIN THE SPECIFIC TIMING REQUIREMENTS IDENTIFIED IN THIS POLICY. PLEASE READ THIS POLICY CAREFULLY. SOME OF THE PROVISIONS CONTAINED IN THIS POLICY RESTRICT COVERAGE, SPECIFY WHAT IS AND IS NOT COVERED AND DESIGNATE YOUR RIGHTS AND DUTIES. LEGAL DEFENSE EXPENSES ARE SUBJECT TO AND SHALL ERODE THE LIMITS OF LIABILITY AND ANY APPLICABLE SELF-INSURED RETENTION.

THE DECLARATIONS, TOGETHER WITH THE COMPLETED AND SIGNED APPLICATION, THIS POLICY, AND ANY ENDORSEMENTS OR SCHEDULES ATTACHED HERETO, CONSTITUTE THE INSURANCE POLICY.

Policy No.: PPL G27169120 003	Renewal of: G27169120 002
Item 1.	First Named Insured: City of Ann Arbor
	Address: 301 East Huron Street Ann Arbor, Michigan 48107-8647

Coverages Purchased: Coverage A. - Coverage B. - Coverage C. -
("X" Indicates Coverage Purchased)

Item 2.	Policy Period: <small>(Local Time of the Address Shown in Item 1., above.)</small>	Policy Inception Date: 02/19/2019 12:01 A.M.	Policy Expiration Date: 02/19/2022 12:01 A.M.
Item 3.	Limits of Liability: In U.S. Dollars	a. \$	Per Pollution Condition or Indoor Environmental Condition Limit of Liability
		b. \$	Total Policy and Program Aggregate Limit of Liability for all Pollution Conditions and Indoor Environmental Conditions
Item 4.	Self-Insured Retention / Deductible Period: In U.S. Dollars	a. \$	Per Pollution Condition or Indoor Environmental Condition
		b. N/A	Days Per Pollution Condition or Indoor Environmental Condition

Item 5.	Retroactive Dates:	<input checked="" type="checkbox"/> if checked Exposure-Specific Retroactive Dates are designated via endorsement. Coverage A Premises Pollution Condition Liability: 02/19/2013 Premises Indoor Environmental Condition Liability: N/A - Excluded Premises Pollution Condition First-Party Claims: 02/19/2013 Premises Indoor Environmental Condition First-Party Claims: N/A - Excluded Coverage B Transportation Liability: 02/19/2013 Transportation First-Party Claims: 02/19/2013 Coverage C Non-Owned Disposal Sites Liability : 02/19/2013 If "FULL RETRO" is indicated in the Retroactive Date column above, then retroactive coverage is afforded pursuant to this Policy for that specific exposure, subject to any other corresponding exposure-specific Retroactive Date added to this Policy by endorsement.
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Item 6.	Premium: In U.S. Dollars	\$33,752
	Total Premium:	\$33,752 (The entire amount of this premium shall be 25% minimum earned as of the first day of the Policy Period indicated in Item 2., above)

Item 7.	Producer: Name & Address	Hylant Group Inc 2401 West Big Beaver Road Suite 400 Troy, Michigan 48084
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Item 8.	a. Notice of Claim or Pollution Condition	b. All other Notices
Notices	CHUBB Environmental Risk Claims Manager CHUBB USA Claims P.O. Box 5103 Scranton, PA 18505-0510 Fax: (866) 635-5687 First Notice Fax: (800) 951-4119 First Notice Email: CasualtyRiskEnvironmentalFirstNotice@chubb.com	Environmental Risk Underwriting Officer CHUBB Environmental Risk P.O. Box 1000 436 Walnut Street – WA 07A Philadelphia, PA 19106
	Environmental Incident Alert - 24 Hour Emergency Response Hotline	1-888-310-9553

Item 9.	Covered Locations:	As Per V. DEFINITIONS, K. "Covered location" <input checked="" type="checkbox"/> if checked here, schedule of Covered Locations is designated via endorsement.
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Policy Form No. PF-44887a (01/17) Premises Pollution Liability Insurance Policy

Endorsements and Notices Attached at Policy Issuance:

Endorsement Number:	Form Number:	Form Name:
001	PF-48608 (01/17)	Business Interruption Coverage Limitations Endorsement
002	PF-45389a (01/17)	Closure, Removal or Replacement Exclusionary (Underground Storage Tanks) Endorsement
003	PF-44916 (09/14)	Covered Storage Tank Schedule (Financial Responsibility) Endorsement
004	PF-44932a (01/17)	Exposure-Specific Dedicated Limits For Financial Responsibility (USTs - Via General Aggregate Sublimit - Multi-Year) Endorsement
005	PF-46966 (09/15)	Known Conditions Exclusion Amendatory Endorsement
006	PF-44957 (09/14)	Notice of Cancellation Amendatory (Generic Time Frame) Endorsement
007	PF-44963 (09/14)	Other Insurance (Primary) Endorsement
008	PF-44967 (09/14)	Premium Earn-Out (Staggered - One Year - Acceleration) Endorsement
009	PF-44971b (01/17)	Public Entity Coverage Amendatory Endorsement
010	PF-44913 (09/14)	Schedule of Covered Locations Schedule Endorsement
011	TRIA11c (01/15)	Disclosure Pursuant To Terrorism Risk Insurance Act
012	PF-23728a (01/15)	Terrorism Risk Insurance Act Endorsement
013	ALL-21101 (11/06)	Trade Or Economic Sanctions Endorsement
014	LD-2S69d (03/11)	Michigan Changes - Cancellation And Nonrenewal
015	CC-1K11i (02/18)	Signatures
	ALL-30463 (08/10)	Michigan Disclaimer Notice Commercial Lines Deregulation
	TRIA24 (01/15)	Policyholder Disclosure Notice of Terrorism Insurance Coverage
	ALL-20887a (03/16)	Chubb Producer Compensation Practices & Policies
	ILP 001 01 04	U. S. Treasury Department's Office of Foreign Assets Control ("OFAC") Advisory Notice to Policyholders

IN WITNESS WHEREOF, the Insurer has caused this Policy to be countersigned by a duly authorized representative of the Insurer.

DATE: 02/19/2019
MO/DAY/YR



JOHN J. LUPICA, President
AUTHORIZED REPRESENTATIVE

This Policy is issued by the stock insurance company identified in the Declarations (hereinafter *the Insurer*).

THIS POLICY PROVIDES LIABILITY COVERAGE ON A CLAIMS-MADE AND REPORTED BASIS, WHICH COVERS ONLY CLAIMS FIRST MADE AGAINST THE INSURED DURING THE POLICY PERIOD AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD OR WITHIN THIRTY DAYS THEREAFTER, UNLESS AN EXTENDED REPORTING PERIOD APPLIES. THIS POLICY ALSO PROVIDES FIRST-PARTY COVERAGES ON A DISCOVERED AND REPORTED BASIS, WHICH COVERS ONLY POLLUTION CONDITIONS AND INDOOR ENVIRONMENTAL CONDITIONS, AS APPLICABLE, FIRST DISCOVERED DURING THE POLICY PERIOD AND FOR WHICH A FIRST-PARTY CLAIM IS REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD OR WITHIN THIRTY DAYS THEREAFTER. FINALLY, THIS POLICY PROVIDES COVERAGE FOR EMERGENCY RESPONSE COSTS THAT IS LIMITED BY MORE SPECIFIC REPORTING CRITERIA AND COVERS ONLY EMERGENCY RESPONSE COSTS INCURRED, AND REPORTED TO THE INSURER, IN WRITING, WITHIN THE SPECIFIC TIMING REQUIREMENTS IDENTIFIED IN THIS POLICY. PLEASE READ THIS POLICY CAREFULLY. SOME OF THE PROVISIONS CONTAINED IN THIS POLICY RESTRICT COVERAGE, SPECIFY WHAT IS AND IS NOT COVERED AND DESIGNATE YOUR RIGHTS AND DUTIES. LEGAL DEFENSE EXPENSES ARE SUBJECT TO AND SHALL ERODE THE LIMITS OF LIABILITY AND ANY APPLICABLE SELF-INSURED RETENTION.

Throughout this Policy the words the Insurer shall refer to the company providing this insurance. Other words and phrases that appear in quotation marks have special meanings and are defined in Section V., DEFINITIONS.

In consideration of the payment of the premium and in reliance upon all statements made in the Application to this Policy, including the information furnished in connection therewith, and subject to all terms, definitions, conditions, exclusions and limitations of this Policy, the Insurer agrees to provide insurance coverage to the “insured” as described herein.

I. INSURING AGREEMENTS

Solely to the extent that the coverages below are identified on the Declarations to this Policy as being underwritten by the Insurer, the Insurer agrees to pay on behalf of the “insured” for “loss”, in excess of the “self-insured retention” or deductible period (as applicable), resulting from:

A. POLLUTION CONDITIONS OR INDOOR ENVIRONMENTAL CONDITIONS COVERAGE (Coverage A.)

“Claims” and “first-party claims” arising out of: 1) a “pollution condition” on, at, under or migrating from a “covered location”; or 2) an “indoor environmental condition” at a “covered location”, provided the “claim” is first made, or the “insured” first discovers such “pollution condition” or “indoor environmental condition”, during the “policy period”. Any such “claim” or “first-party claim” must be reported to the Insurer, in writing, during the “policy period” or within thirty (30) days after the expiration of the “policy period”, or during any applicable “extended reporting period”.

The coverage afforded pursuant to this Coverage A. only applies to “pollution conditions” or “indoor environmental conditions” that first commence, in their entirety, on or after the retroactive date identified in Item 5. of the Declarations, if applicable, and prior to the expiration of the “policy period”.

B. TRANSPORTATION COVERAGE (Coverage B.)

“Claims” and “first-party claims” arising out of a “pollution condition” resulting from “transportation”, provided the “claim” is first made, or the “insured” first discovers such “pollution condition”, during the “policy period”. Any such “claim” or “first-party claim” must be reported to the Insurer, in writing, during the “policy period” or within thirty (30) days after the expiration of the “policy period”, or during any applicable “extended reporting period”.

The coverage afforded pursuant to this Coverage B. only applies to “pollution conditions” that first commence, in their entirety, on or after the retroactive date identified in Item 5. of the Declarations, if applicable, and prior to the expiration of the “policy period”.

C. NON-OWNED DISPOSAL SITE COVERAGE (Coverage C.)

“Claims” arising out of a “pollution condition” on, at, under or migrating from a “non-owned disposal site”, provided the “claim” is first made during the “policy period”. Any such “claim” must be reported to the Insurer,

in writing, during the “policy period” or within thirty (30) days after the expiration of the “policy period”, or during any applicable “extended reporting period”.

The coverage afforded pursuant to this Coverage **C.** only applies to “pollution conditions” that are attributable to a “named insured’s” waste generated at a “covered location” and received at the “non-owned disposal site”, in its entirety, on or after the retroactive date identified in Item **5.** of the Declarations, if applicable, and prior to the expiration of the “policy period”.

II. LIMITS OF LIABILITY AND SELF-INSURED RETENTION

- A.** It is expressly agreed that the Insurer’s obligation to pay for any covered “loss” (exclusive of “business interruption loss”) pursuant to this Policy shall attach to the Insurer only after the “first named insured” has paid, or has provided evidence to the Insurer that another “named insured” has paid, the full amount of the “self-insured retention” with respect to any covered “pollution condition” or “indoor environmental condition”. Under no circumstances, including, but not limited to, an “insured’s” insolvency and/or bankruptcy, shall the Insurer be liable to pay any amount within the “self-insured retention”. In the event that the “first named insured” cannot provide satisfactory evidence that a “named insured” has paid the full amount of the “self-insured retention” with respect to any covered “pollution condition” or “indoor environmental condition”, the “first named insured” shall remain responsible to pay the “self-insured retention” before the Insurer’s payment obligation pursuant to this Policy shall attach with respect to coverage sought by any “insured”.

Notwithstanding the foregoing, if the “insured” agrees with the Insurer to use “mediation” to successfully resolve any “claim” for which “legal defense expenses” have been incurred, then the “self-insured retention” applicable to the “pollution condition” or “indoor environmental condition” that corresponds to such “claim” shall be reduced by fifty percent (50%), subject to a maximum reduction in the “self-insured retention” of twenty-five thousand dollars (\$25,000).

In addition to the foregoing, it is expressly agreed that the Insurer’s obligation to pay for any covered “business interruption loss” pursuant to this Policy shall attach to the Insurer only after the relevant “insured” has also borne the full amount of the “business interruption loss” within the deductible period identified in Item **4.** of the Declarations to this Policy.

- B.** One “self-insured retention” shall apply to all “loss” (exclusive of “business interruption loss”) arising out of the same, continuous, repeated, or related “pollution condition” or “indoor environmental condition”. If the same, continuous, repeated, or related “pollution condition” or “indoor environmental condition” triggers coverage pursuant to multiple coverage parts, or otherwise involves multiple exposures that have been assigned exposure-specific “self-insured retention” amounts by endorsement to this Policy, the single largest of the associated “self-insured retention” amounts identified in: **1)** Item **4.** of the Declarations; **2)** any Supplemental Coverage added by endorsement to this Policy; or **3)** any exposure-specific “self-insured retention” endorsement identified as part of this Policy, shall apply to all “loss” and other covered exposures arising out of such “pollution condition” or “indoor environmental condition”, except for any “catastrophe management costs” that are assigned an exposure-specific “self-insured retention” by endorsement to this Policy, if any (hereinafter Catastrophe Management-Specific SIR Obligation). Amounts within any such Catastrophe Management-Specific SIR Obligation shall be independent of, and shall not otherwise erode, the single largest “self-insured retention” applicable to all other covered exposures arising out of the same “pollution condition” or “indoor environmental condition” as contemplated herein.
- C.** One deductible period shall apply to all “business interruption loss” arising out of the same, continuous, repeated, or related “pollution condition” or “indoor environmental condition”.
- D.** Subject to Subsections **E.** and **F.**, below, the most the Insurer shall pay for all “loss” arising out of the same, continuous, repeated, or related “pollution condition” or “indoor environmental condition” is the Per Pollution Condition or Indoor Environmental Condition Limit of Liability identified in Item **3.a.** of the Declarations to this Policy.
- E.** Subject to Subsection **D.**, above, and Subsection **F.**, below, **\$250,000** shall be the maximum amount the Insurer shall pay for all “catastrophe management costs” arising out of all “pollution conditions” and “indoor environmental conditions”.
- F.** Subject to Subsections **D.** and **E.**, above, the Total Policy and Program Aggregate Limit of Liability identified in Item **3.b.** of the Declarations shall be the maximum liability of the Insurer pursuant to this Policy with respect to all “loss”.
- G.** If the Insurer or an affiliate has issued pollution liability coverage afforded on a discovered and reported basis or claims-made and reported basis consistent with coverage afforded pursuant to this Policy in one or more policy

periods, and a “pollution condition” or “indoor environmental condition” is first discovered and reported to the Insurer, or a “claim” is first made and reported to the Insurer with respect to a “pollution condition” or “indoor environmental condition”, in accordance with the terms and conditions of this Policy, then:

1. Any continuous, repeated, or related “pollution condition” or “indoor environmental condition” that is subsequently reported to the Insurer during later policy periods shall be deemed to be one “pollution condition” or “indoor environmental condition” discovered during this “policy period”; and
2. All “claims” arising out of:
 - a. The same, continuous, repeated, or related “pollution condition” or “indoor environmental condition” that was discovered during this “policy period”; or
 - b. The same, continuous, repeated, or related “pollution condition” or “indoor environmental condition” that was the subject of a “claim” first made and reported in accordance with the terms and conditions of this Policy,

shall be deemed to have been first made and reported during this “policy period” and no other policy shall respond.

III. DEFENSE AND SETTLEMENT

- A. The Insurer shall have the right and, subject to the “self-insured retention” obligation, the duty to defend the “insured” against a “claim” to which this insurance applies. The Insurer shall have no duty to defend the “insured” against any “claim” to which this insurance does not apply. The Insurer’s duty to defend the “insured” ends once the Limits of Liability are exhausted or are tendered into a court of applicable jurisdiction, or once the “insured” refuses a settlement offer as provided in Subsection E., below.
- B. The Insurer shall have the right to select legal counsel to: **1)** represent the “insured” for the investigation, adjustment, and defense of any “claims” covered pursuant to this Policy; and **2)** assist the “insured” with clarifying the extent of, and to help minimize, any “first-party remediation costs”. Selection of legal counsel by the Insurer shall not be done without the consent of the “insured”; such consent shall not be unreasonably withheld.

In the event the “insured” is entitled by law to select independent counsel to defend itself at the Insurer’s expense, the attorney fees and all other litigation expenses the Insurer shall pay to that counsel are limited to the rates the Insurer actually pays to counsel that the Insurer normally retains in the ordinary course of business when defending “claims” or lawsuits of similar complexity in the jurisdiction where the “claim” arose or is being defended. In addition, the “insured” and the Insurer agree that the Insurer may exercise the right to require that such counsel: **1)** have certain minimum qualifications with respect to their competency, including experience in defending “claims” similar to those being asserted against the “insured”; **2)** maintain suitable errors and omissions insurance coverage; **3)** be located within a reasonable proximity to the jurisdiction of the “claim”; and **4)** agree in writing to respond in a timely manner to the Insurer’s requests for information regarding the “claim”. The “insured” may at any time, by its signed consent, freely and fully waive its right to select independent counsel.

- C. The “insured” shall have the right and the duty to retain a qualified environmental consultant or “catastrophe management firm” to: **1)** perform any investigation and/or remediation of any “pollution condition” or “indoor environmental condition” covered pursuant to this Policy; or **2)** perform “catastrophe management services” covered pursuant to this Policy, respectively. The “insured” must receive the consent of the Insurer prior to the selection and retention of such consultant or “catastrophe management firm”, except in the event of a “first-party claim” that results in “emergency response costs”.
- D. “Legal defense expenses” reduce the Limits of Liability identified in the Declarations to this Policy, and, unless specifically stated otherwise herein, any applicable Limits or Sublimits of Liability identified in any endorsement hereto. “Legal defense expenses” shall also be applied to the “self-insured retention”.
- E. The Insurer shall present all settlement offers to the “insured”. If the Insurer recommends a settlement which is acceptable to a claimant, exceeds any applicable “self-insured retention”, is within the Limits of Liability, and does not impose any additional unreasonable burdens on the “insured”, and the “insured” refuses to consent to such settlement offer, then the Insurer’s duty to defend shall end. Thereafter, the “insured” shall defend such “claim” independently and at the “insured’s” own expense. The Insurer’s liability shall not exceed the amount for which the “claim” could have been settled if the Insurer’s recommendation had been accepted, exclusive of the “self-insured retention”.

IV. COVERAGE TERRITORY

The coverage afforded pursuant to this Policy shall only apply to “pollution conditions” or “indoor environmental conditions” located, and “claims” made, within the United States of America.

V. DEFINITIONS

- A. “Additional insured”** means any person or entity specifically endorsed onto this Policy as an “additional insured”, if any. Such “additional insured” shall maintain only those rights that are specified by endorsement to this Policy.
- B. “Adverse media coverage”** means national or regional news exposure in television, radio, print or internet media that is reasonably likely to have a negative impact on the “insured” with respect to its income, reputation, community relations, public confidence or good will.
- C. “Bodily injury”** means physical injury, illness, disease, mental anguish, emotional distress, or shock, sustained by any person, including death resulting therefrom, and any prospective medical monitoring costs that are intended to confirm any such physical injury, illness or disease.
- D. “Business income”** means:
1. Net profit or loss, before income taxes, including “rental income” from tenants, that would have been realized had there been no “business interruption”;
 2. The “insured’s” continuing operating and payroll expense (excluding payroll expense of officers, executives, department managers and contract employees);
 3. Costs incurred by the “insured” as rent for temporary premises when a portion of a “covered location” becomes untenable due to a “pollution condition” or “indoor environmental condition” and temporary premises are required to continue the “insured’s” operations. Such rental costs cannot exceed the fair rental value of the untenable portion of the “covered location” immediately preceding the “pollution condition” or “indoor environmental condition”.
- E. “Business interruption”** means the necessary partial or complete suspension of the “insured’s” operations at a “covered location” for a period of time, which is directly attributable to a “pollution condition” or “indoor environmental condition” to which Coverage A. of this Policy applies. Such period of time shall extend from the date that the operations are necessarily suspended and end when such “pollution condition” or “indoor environmental condition” has been remediated to the point at which the “insured’s” normal operations could reasonably be restored.
- F. “Business interruption loss”** means:
1. “Business income”;
 2. “Extra expense”; and
 3. “Delay expense”.
- G. “Catastrophe management costs”** means reasonable and necessary expenses approved by the Insurer, in writing, except for those expenses incurred during the same seven (7) day period associated with “emergency response costs”, which have been incurred by the “insured” for the following:
1. Responsive consulting services rendered by a “catastrophe management firm”;
 2. Printing, advertising, mailing of materials of public relations materials;
 3. Travel by directors, officers, employees or agents of the “insured”, or the “catastrophe management firm”, incurred at the direction of a “catastrophe management firm”;
 4. To secure the scene of a “pollution condition” or “indoor environmental condition”; or
 5. Sums advanced to third-parties directly harmed by the “pollution condition” or “indoor environmental condition” for their medical costs; funeral costs; psychological counseling; travel expenses costs; temporary living costs or other necessary response costs,
- but solely in those instances when, in the good faith opinion of a “key executive”, the associated “pollution condition” or “indoor environmental condition” has resulted in or is reasonably likely to result in: **a)** “loss” (exclusive of “catastrophe management costs”) that will exceed the applicable “self-insured retention”; and **b)** a need for “catastrophe management services” due to “adverse media coverage”.
- “Catastrophe management costs” do not include any “legal defense expense”.
- H. “Catastrophe management firm”** means any firm that is approved, in writing, except for firms retained for the same seven (7) day period associated with “emergency response costs”, by the Insurer to perform “catastrophe management services” in connection with a “pollution condition” or “indoor environmental condition”.

- I. “Catastrophe management services”** means advising the “insured” with respect to minimizing potential harm to the “insured” from a covered “pollution condition” or “indoor environmental condition” by managing “adverse media coverage” and maintaining and restoring public confidence in the “insured”, and its services or products.
- J. “Claim”** means the written assertion of a legal right received by the “insured” from a third-party, or from another “insured” that is party to an “environmental indemnity obligation”, including, but not limited to, a “government action”, suits or other actions alleging responsibility or liability on the part of the “insured” for “bodily injury”, “property damage” or “remediation costs” arising out of “pollution conditions” or “indoor environmental conditions” to which this insurance applies.
- K. “Covered location”** means:
1. Any location specifically identified in Item 9. of the Declarations to this Policy;
 2. Any location that is specifically identified on a Schedule of Covered Locations attached to this Policy; and
 3. Any location that meets the prerequisites to coverage identified in the Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any.
- L. “Delay expense”** means, for a “covered location” under development where a “pollution condition” or “indoor environmental condition” causes a delay in the completion or development during the “business interruption”, any of the following expenses:
1. Additional interest on money the “insured” has borrowed to finance the construction, development, or remediation of a project at a “covered location”;
 2. Additional realty taxes and other assessments;
 3. Additional advertising or promotional expense;
 4. Additional expenses incurred resulting from the renegotiation of leases, including associated usual and customary legal representation expense; and
 5. Additional engineering, architectural, and consulting fees.
- M. “Emergency response costs”** means “first-party remediation costs” incurred within seven (7) days following the discovery of a “pollution condition” or “indoor environmental condition” by a “responsible person” in order to abate or respond to an imminent and substantial threat to human health or the environment arising out of:
1. A “pollution condition” or “indoor environmental condition” on, at, under or migrating from a “covered location”; or
 2. A “pollution condition” resulting from “transportation”,
- provided such “emergency response costs” are reported to the Insurer within fourteen (14) days of when that “responsible person” first became aware of such “pollution condition” or “indoor environmental condition”.
- N. “Environmental indemnity obligations”** means an "insured's" obligations to defend or indemnify a third-party with respect to a “pollution condition” or “indoor environmental condition” to which this insurance otherwise applies, provided that such defense or indemnity obligation is explicitly included within a contract identified or described on the Schedule of Insured Contracts Endorsement attached to this Policy, if any.
- O. “Environmental law”** means any Federal, state, commonwealth, municipal or other local law, statute, ordinance, rule, guidance document, regulation, and all amendments thereto (collectively Laws), including voluntary cleanup or risk-based corrective action guidance, or the direction of an “environmental professional” acting pursuant to the authority provided by any such Laws, along with any governmental, judicial or administrative order or directive, governing the liability or responsibilities of the “insured” with respect to a “pollution condition” or “indoor environmental condition”.
- P. “Environmental professional”** means a licensed professional that is:
1. Mutually agreed upon by the Insurer and the “insured”, except with respect to “emergency response costs”; and
 2. Qualified by licensure, knowledge, skill, education and training to perform an assessment, prepare an investigation protocol, interpret the results and prepare a scope of work to remediate a “pollution condition” or “indoor environmental condition”.

- Q. “Extended reporting period”** means the additional period of time in which to report a “claim” first made against the “insured” during or subsequent to the end of the “policy period”.
- R. “Extra damages”** means punitive, exemplary or multiplied damages, and civil fines, penalties and assessments, but solely to the extent that the punitive, exemplary or multiplied damages, and civil fines, penalties and assessments:
1. Are insurable under applicable law; and
 2. Arise out of a “pollution condition” or “indoor environmental condition” that results in “bodily injury”, “property damage”, “remediation costs” or “first-party remediation costs” to which this insurance otherwise applies.
- S. “Extra expense”** means costs incurred by the “insured” due to a “pollution condition” or “indoor environmental condition” that are necessary to avoid or mitigate any “business interruption”. Such costs must be incurred to actually minimize the amount of foregone “business income” that would otherwise be covered pursuant to this Policy.
- T. “First named insured”** means the person or entity as identified in Item 1. of the Declarations to this Policy. The “first named insured” is the party responsible for the payment of any premiums and the payment of, or evidencing payment of, any applicable “self-insured retention” amounts. The “first named insured” shall also serve as the sole agent on behalf of all “insureds” with respect to the provision and receipt of notices, including notice of cancellation or non-renewal, receipt and acceptance of any endorsements or any other changes to this Policy, return of any premium, assignment of any interest pursuant to this Policy, as well as the exercise of any applicable “extended reporting period”, unless any such responsibilities are otherwise designated by endorsement.
- U. “First-party claim”** means the first-party discovery of a “pollution condition” or an “indoor environmental condition” during the “policy period” by an “insured” to which this insurance applies.
- V. “First-party remediation costs”** means reasonable and necessary “remediation costs” incurred by an “insured” resulting from a “first-party claim”. If no applicable laws exist that govern the remediation, investigation, quantification, monitoring, removal, disposal, treatment, neutralization, or immobilization of such “pollution condition” or “indoor environmental condition” in the jurisdiction of the “covered location”, necessary “remediation costs” may be established by securing the written professional recommendations of an “environmental professional”.
- “First-party remediation costs”** also means reasonable and necessary expenses required to restore, repair or replace real or personal property to substantially the same condition it was in prior to being damaged during the course of responding to a “pollution condition” or “indoor environmental condition”. Such expenses shall not include costs associated with betterments or improvements, except to the extent that such betterments or improvements are exclusively associated with the use of building materials which are environmentally superior to those materials which comprised the original damaged property. Any such environmentally superior material must be: **a)** certified as such by an applicable independent certifying institution, where such certification is available; or **b)** in the absence of any such certification, based solely on the judgment of the Insurer and at its sole discretion.
- W. “Fungi”** means any type or form of fungus, including mold or mildew, and any mycotoxins, spores, scents, or byproducts produced or released by “fungi”.
- X. “Government action”** means action taken or liability imposed by any Federal, state, commonwealth, municipal or other local government agency or body acting pursuant to the authority of “environmental law”.
- Y. “Illicit abandonment”** means:
1. Solely with respect to coverage for “covered locations”, the intentional placement or abandonment of any solid, liquid, gaseous or thermal irritant, contaminant, or pollutant, including contaminated soil, contaminated silt, contaminated sedimentation, smoke, soot, vapors, fumes, acids, alkalis, chemicals, hazardous substances, hazardous materials, or waste materials, including “low-level radioactive waste”, “mixed waste” and medical, red bag, infectious and pathological wastes, on, at or into a “covered location”, by a person or entity that:
 - a. Is not an “insured”; and
 - b. Is not affiliated by common ownership with an “insured”, and,

2. Solely with respect to coverage for “transportation”, the intentional placement or abandonment of any waste, goods, materials or product beyond the boundaries of a “covered location” during “transportation” by a person or entity that:
 - a. Is not an “insured”; and
 - b. Is not affiliated by common ownership with an “insured”.

“**Illicit abandonment**” does not mean any such placement or abandonment, above, which takes place, in whole or in part, prior to the inception date identified in Item 2. of the Declarations of this Policy.

Z. “Indoor environmental condition” means:

1. The presence of “fungi” in a building or structure, or the ambient air within such building or structure; or
2. The discharge, dispersal, release, escape, migration or seepage of *legionella pneumophila* in a building or structure, or the ambient air within such building or structure,

provided that such “fungi” or *legionella pneumophila* are not naturally occurring in the environment in the amounts and concentrations found within such building or structure.

AA. “Insured” means the “first named insured”, any “named insured”, any “additional insured”, and any past or present director or officer of, partner in, employee of, temporary or leased worker of, or, with respect to a limited liability company, a member of, any of the foregoing while acting within the scope of his or her duties as such.

BB. “Key executive” means the Chief Executive Officer, Chief Operating Officer, Chief Financial Officer, President, General Counsel, general partner or managing partner (if the “insured” is a partnership), managing member (if the “insured” is a limited liability company) or sole proprietor (if the “insured” is a sole proprietorship) of the “insured”. A “key executive” also means any other person holding a title designated by the “first named insured”, approved by the Insurer, and identified by endorsement to this Policy.

CC. “Legal defense expense” means reasonable legal costs, charges, and expenses, including expert charges, incurred by the “insured”:

1. In the investigation, adjustment or defense of “claims”; or,
2. Solely with respect to those instances where the “insured” has secured the prior consent of the Insurer, except in the event of a “first-party claim” that results in “emergency response costs”, in order to clarify the extent of, minimize, and effect resolution of, any obligation to incur “first-party remediation costs”.

DD. “Loss” means:

Coverage A.

1. A monetary judgment, award or settlement of compensatory damages arising from “bodily injury”, “property damage” or “remediation costs”, including associated “extra damages”;
2. “Legal defense expense”;
3. “First-party remediation costs”;
4. “Emergency response costs”;
5. “Business interruption loss”; and
6. “Catastrophe management costs”.

Coverage B.

7. A monetary judgment, award or settlement of compensatory damages arising from “bodily injury”, “property damage” or “remediation costs”, including associated “extra damages”;
8. “Legal defense expense”;
9. “First-party remediation costs”;
10. “Emergency response costs”; and
11. “Catastrophe management costs”.

Coverage C.

12. A monetary judgment, award or settlement of compensatory damages arising from “bodily injury”, “property damage” or “remediation costs”, including associated “extra damages” and “legal defense expense”; and

13. "Catastrophe management costs".

Supplemental Coverages

Any other liability or first-party exposure insured pursuant to any Supplemental Coverage added by endorsement to this Policy.

EE. "Low-level radioactive waste" means waste that is radioactive but not classified as the following: high-level waste (spent nuclear fuel or the highly radioactive waste produced if spent fuel is reprocessed), uranium milling residues, and waste with greater than specified quantities of elements heavier than uranium.

FF. "Mediation" means a conciliatory, non-binding attempt to resolve a "claim" using a neutral, third-party facilitator.

GG. "Mixed waste" means waste containing both radioactive and hazardous components as defined pursuant to United States law within the Atomic Energy Act and the Resource Conservation and Recovery Act, as either may be amended.

HH. "Named insured" means the "first named insured" and any other person or entity specifically endorsed onto this Policy as a "named insured", if any. "Named insureds" shall maintain the same rights pursuant to this Policy as the "first named insured", except for those rights specifically: **1)** reserved to the "first named insured" as defined herein; or **2)** limited by endorsement to this Policy.

II. "Natural resource damage" means injury to, destruction of, or loss of, including the resulting loss of value of, fish, wildlife, biota, land, air, water, groundwater, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States of America (including the resources of the fishery conservation zone established by the Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. § 1801 et. seq.)), any state, commonwealth or local government, or any Native American Tribe, or, if such resources are subject to a trust restriction on alienation, any members of any Native American Tribe, including the reasonable costs of assessing such injury, destruction or loss resulting therefrom.

JJ. "Non-owned disposal site" means:

1. Any treatment, storage, transfer, disposal or recycling site or facility located within the United States of America that has not at any time been owned or operated, in whole or in part, by any "insured", which receives, or has historically received, a "named insured's" waste for disposal; provided that such treatment, storage, transfer, disposal or recycling site or facility:
 - a. Was properly permitted and licensed pursuant to "environmental law" to accept the "named insured's" waste at the time of such disposal by the Federal, state, commonwealth, municipal or other local government agencies or bodies with applicable jurisdiction;
 - b. Was not owned or operated by any person, corporation or unincorporated association that was in bankruptcy at the time the "named insured's" waste was received for disposal; and
 - c. Has not, prior to the time the "named insured's" waste was received for disposal, been identified on the United States EPA (CERCLA) National Priorities List or pursuant to any functional equivalent of that list made by Federal, state, commonwealth, municipal or other local government agency or body with applicable jurisdiction pursuant to "environmental law", or
2. Any treatment, storage, transfer, disposal or recycling site or facility specifically identified on a Schedule of Non-Owned Disposal Sites Endorsement attached to this Policy, if any.

KK. "Policy period" means:

1. The period of time specifically identified in Item **2.** of the Declarations to this Policy; or,
2. Solely with respect to "covered locations" added to this Policy during the period of time specifically identified in Item **2.** of the Declarations to the Policy, if any, the period of time following the effective date of such addition through the expiration date of the Policy identified in Item **2.** of the Declarations to this Policy; or
3. Any shorter period of time resulting from the cancellation of this Policy.

LL. "Pollution condition" means:

1. "Illicit abandonment"; or
2. The discharge, dispersal, release, escape, migration, or seepage of any solid, liquid, gaseous or thermal irritant, contaminant, or pollutant, including soil, silt, sedimentation, smoke, soot, vapors, fumes, acids, alkalis, chemicals, electromagnetic fields (EMFs), hazardous substances, hazardous materials, waste

materials, “low-level radioactive waste”, “mixed waste” and medical, red bag, infectious or pathological wastes, on, in, into, or upon land and structures thereupon, the atmosphere, surface water, or groundwater.

MM. “Property damage” means:

1. Physical injury to, or destruction of, tangible property of a third-party, including all resulting loss of use of that property;
2. Loss of use of tangible property of a third-party, that is not physically injured or destroyed;
3. Diminished value of tangible property owned by a third-party; or
4. “Natural resource damages”.

“Property damage” does not mean “remediation costs”.

NN. “Remediation costs” means expenses incurred to investigate, quantify, monitor, remove, dispose, treat, neutralize, or immobilize “pollution conditions” or “indoor environmental conditions” to the extent required by “environmental law” in the jurisdiction of such “pollution conditions” or “indoor environmental conditions”.

OO. “Rental income” means the actual rental fees lost as a result of a “suspension” of a rented “covered location”.

PP. “Responsible person” means any employee of an “insured” responsible for environmental affairs, control, or compliance at a “covered location”, or any “key executive” of, officer or director of, or partner in, an “insured”.

QQ. “Self-insured retention” means the largest applicable dollar amount among triggered coverage parts identified in Item 4. of the Declarations to this Policy, or as otherwise designated by endorsement to this Policy, if any.

RR. “Suspension” means that part of, or all of, a rented “covered location” is rendered untenable for the purposes identified to the Insurer prior to the inception date of this Policy due to a “pollution condition” or “indoor environmental condition”.

SS. “Terrorism” means activities against persons, organizations or property of any nature:

1. That involve the following or preparation for the following:
 - a. Use or threat of force or violence; or
 - b. Commission or threat of a dangerous act; or
 - c. Commission or threat of an act that interferes with or disrupts an electronic, communication, information, or mechanical system; and
2. When one or both of the following applies:
 - a. The effect is to intimidate or coerce a government or the civilian population or any segment thereof, or to disrupt any segment of the economy; or
 - b. It appears that the intent is to intimidate or coerce a government, or to further political, ideological, religious, social or economic objectives or to express (or express opposition to) a philosophy or ideology.

TT. “Transportation” means the movement of an “insured’s” waste, materials, goods or products to or from a “covered location” by automobile, aircraft, watercraft, railcar or other conveyance, including any associated loading or unloading thereof, by an “insured”, or any third-party vendor engaged by an “insured” in the business of transporting property for hire, provided that any such movement, and associated loading and unloading activities, are performed beyond the boundaries of a “covered location”.

UU. “Underground storage tank” means any tank and associated piping and appurtenances connected thereto which tank has more than ten percent (10%) of its volume below ground.

“Underground storage tank” does not mean:

1. Any flow-through process tank, including, but not limited to, a septic tank, oil/water separator, sump, or any stormwater or wastewater collection/treatment vessel or system; or
2. Any tank that is located below ground, provided that such tank is located on or above the floor of a basement of a building or on or above the floor of any shaft or tunnel.

VV. “War” means war, whether or not declared, civil war, martial law, insurrection, revolution, invasion, bombardment or any use of military force, usurped power or confiscation, nationalization or damage of property by any government, military or other authority.

VI. EXCLUSIONS

This insurance shall not apply to:

A. Asbestos

“Loss” arising out of or related to asbestos or asbestos-containing materials.

This exclusion shall not apply to:

1. Monetary judgments, awards or settlements of compensatory damages resulting from “bodily injury” or “property damage”, or any associated “extra damages” or “legal defense expenses”;
2. Monetary judgments, awards or settlements of compensatory damages resulting from “remediation costs”, or any associated “extra damages” or “legal defense expense”, arising out of asbestos or asbestos-containing materials discovered in soil or groundwater; and
3. “First-party remediation costs”, “emergency response costs”, “catastrophe management costs” or “business interruption loss”, or any associated “legal defense expense”, resulting from “first-party claims” arising out of asbestos or asbestos-containing materials discovered in soil or groundwater.

B. Contractual Liability

“Loss” arising out of or related to liability of others assumed by any “insured” through contract or agreement, except if the liability would have attached to the “insured” in the absence of such contract or agreement.

This exclusion shall not apply to “environmental indemnity obligations”.

C. Criminal Fines and Criminal Penalties

“Loss” arising out of or related to criminal fines, criminal penalties or criminal assessments.

D. Divested Property

“Loss” arising out of or related to a “pollution condition” on, at, under or migrating from, or “indoor environmental condition” at, any “covered location”:

1. That had been sold, abandoned, or given away by any “insured”, or was condemned (collectively hereinafter Divested), prior to the “policy period”; or
2. When such “pollution condition” or “indoor environmental condition” first commenced after the “covered location” had been Divested.

This exclusion shall not apply to any “pollution conditions” or “indoor environmental conditions” that first commenced, in whole or in part, prior to the effective date that any such “covered location” was Divested as identified on the Divested Properties Coverage Endorsement attached to this Policy, if any.

E. Employers Liability

“Claims” arising out of or related to “bodily injury” to:

1. Any “insured” or any employee of its parent corporation, subsidiary or affiliate:
 - a. Arising out of, or in the course of, employment by any “insured”, its parent corporation, subsidiary or affiliate; or
 - b. Performing duties related to the conduct of the business of any “insured”, its parent corporation, subsidiary or affiliate.
2. The spouse, child, parent, brother or sister of any “insured” or employee of its parent corporation, subsidiary or affiliate as a consequence of Paragraph 1., above.

This exclusion applies:

1. Whether any “insured” may be liable as an employer or in any other capacity; and
2. To any obligation to share damages with or repay someone else who must pay damages because of such “bodily injury”.

F. First-Party Property Damage

“Loss” arising out of or related to damage to real or personal property owned by, leased to, loaned to, or rented by any “insured”, or otherwise in the care, custody, or control of any “insured”.

This exclusion shall not apply to “first-party remediation costs”, “emergency response costs”, “business interruption loss” and “catastrophe management costs”.

G. Fraud or Misrepresentation

“Loss” arising out of or related to:

1. Fraudulent acts or material misrepresentations on the part of the “first named insured” made:
 - a. Within an Application to this Policy; or
 - b. During the Application or underwriting process prior to the inception date of this Policy, which would have affected the Insurer’s decision to either issue this Policy, or issue this Policy and its endorsements pursuant to the financial terms identified in the Declarations to this Policy; or
2. Fraudulent acts or material misrepresentations on the part of any “responsible person” during the “policy period”.

H. Insured’s Internal Expenses

“Loss” arising out of or related to expenses incurred by any “insured” for services performed by its salaried staff and any employees.

This exclusion shall not apply to:

1. “Emergency response costs”, along with any associated “catastrophe management costs” incurred during that same seven (7) day period; or
2. Any other costs, charges or expenses incurred with the prior approval of the Insurer at its sole discretion.

I. Insured vs. Insured

“Claims” made by any “insured” against any other “insured”.

This exclusion shall not apply to:

1. “Claims” initiated by third-parties, including cross claims, counterclaims or claims for contribution by such parties against any “insured”; or
2. “Claims” that arise out of an indemnification provided by one “insured” to another “insured” in an “environmental indemnity obligation”.

J. Intentional Non-Compliance

“Loss” arising out of or related to the intentional disregard of, or knowing, willful, or deliberate non-compliance with, any law, statute, regulation, administrative complaint, notice of violation, notice letter, instruction of any governmental agency or body, or any executive, judicial or administrative order, by, or at the direction of, any “responsible person”.

K. Known Conditions

“Loss” arising out of or related to “pollution conditions” or “indoor environmental conditions” in existence and reported to a “responsible person”:

1. Prior to the “policy period”; or,
2. Solely with respect to “covered locations” added to this Policy during the period of time specifically identified in Item 2. of the Declarations to the Policy, if any, prior to the effective date of coverage for such “covered location”,

and not affirmatively disclosed to the Insurer in an Application or supplemental underwriting materials provided to the Insurer to secure coverage for such “covered location” pursuant to this Policy.

L. Lead-Based Paint

“Loss” arising out of or related to lead-based paint.

This exclusion shall not apply to:

1. Monetary judgments, awards or settlements of compensatory damages resulting from “bodily injury” or “property damage”, or any associated “extra damages” or “legal defense expenses”;
2. Monetary judgments, awards or settlements of compensatory damages resulting from “remediation costs”, or any associated “extra damages” or “legal defense expenses”, arising out of lead-based paint discovered in soil or groundwater; and
3. “First-party remediation costs”, “emergency response costs”, “catastrophe management costs” or “business interruption loss”, or any associated “legal defense expense”, resulting from “first-party claims” arising out of lead-based paint discovered in soil or groundwater.

M. Material Change in Risk

“Loss” arising out of or related to a change in the use or operations at a “covered location” that materially increases the likelihood or severity of a “pollution condition”, “indoor environmental condition”, “claim” or “first-party claim” from the intended uses or operations identified:

1. By the “first named insured” for the Insurer in an Application or supplemental underwriting materials provided prior to the effective date of coverage for such “covered location”, if any; or
2. Solely with respect to “covered locations” added to the Policy pursuant to an Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any, as part of the due diligence materials and supplemental underwriting materials provided to the Insurer as part of the notice required pursuant to that endorsement, if any.

This exclusion shall only apply to the “covered location” associated with the change in use or operations and shall not limit coverage for other “covered locations” to which this insurance applies.

N. Non-Owned Disposal Sites

“Loss” arising out of or related to “pollution conditions” on, at, under or migrating from any treatment, storage, disposal, transfer or recycling site or facility that is not a “non-owned disposal site”.

O. Underground Storage Tanks

“Loss” arising out of or related to “pollution conditions” emanating from an “underground storage tank” located at a “covered location”, when the existence of such “underground storage tank” was known to a “responsible person”:

1. Prior to the “policy period”; or,
2. Solely with respect to “underground storage tanks” situated at “covered locations” added to this Policy during the “policy period”, prior to the effective date of coverage for such “covered location”.

This exclusion shall not apply to any “underground storage tank” that:

1. Is identified on the Schedule of Underground Storage Tanks Endorsement or Schedule of Covered Storage Tanks (Financial Responsibility) Endorsement attached to this Policy, if any; or
2. Has been removed or closed-in-place prior to the inception date of this Policy and such removal or closure was conducted in accordance with “environmental law”.

P. Vehicle Damage

“Claims” or associated “legal defense expense” for “property damage” to any automobile, aircraft, watercraft, railcar or other conveyance utilized for “transportation”.

Q. War or Terrorism

“Loss” arising out of or related to “pollution conditions” or “indoor environmental conditions” attributable, whether directly or indirectly, to any acts that involve, or that involve preparation for, “war” or “terrorism” regardless of any other cause or event that contributes concurrently or in any sequence to the injury or damage.

R. Workers’ Compensation

“Loss” arising out of or related to any obligation of any “insured” pursuant to the Jones Act or any workers’ compensation, unemployment compensation, or disability benefits law or related laws.

VII. REPORTING AND COOPERATION

- A. Without limiting the specific requirements contained in any Insuring Agreement or any other exposure-specific reporting requirements contained within this Policy, the “insured” shall also see to it that the Insurer receives notice of any “claim” or “first-party claim”, as soon as practicable, by one or more of the following:
1. Provide written notice to the address, fax number, or email address identified in Item **8.a.** of the Declarations to this Policy; or
 2. Provide verbal or electronic notice utilizing the **Environmental Incident Alert 24-hour Emergency Response and Incident Reporting System** by calling the telephone number identified in Item **8.** of the Declarations to this Policy or by using the associated telephone web application, respectively.

Such notice should include reasonably detailed information as to:

1. The identity of the “insured”, including contact information for an appropriate person to contact regarding the handling of the “claim” or “first-party claim”;
 2. The identity of the “covered location”;
 3. The nature of the “claim” or “first-party claim”; and
 4. Any steps undertaken by the “insured” to respond to the “claim” or “first-party claim”.
- B. The “insured” must:
1. As soon as practicable, send the Insurer copies of any demands, notices, summonses or legal papers received in connection with any “claim”;
 2. Authorize the Insurer to obtain records and other information;
 3. Cooperate with the Insurer in the investigation, settlement or defense of the “claim”;
 4. Assist the Insurer, upon the Insurer’s request, in the enforcement of any right against any person or organization which may be liable to the “insured” because of “loss” to which this Policy may apply; and
 5. Provide the Insurer with such information and cooperation as it may reasonably require.
- C. No “insured” shall make or authorize an admission of liability or attempt to settle or otherwise dispose of any “claim”, without the written consent of the Insurer. Nor shall any “insured” retain any consultants or “catastrophe management firms”, or incur any “first-party remediation costs” or “catastrophe management costs” with respect to a “first-party claim”, without the prior consent of the Insurer, except for “emergency response costs”.
- D. Upon the discovery of a “pollution condition” or “indoor environmental condition”, the “insured” shall make every attempt to mitigate any loss and comply with applicable “environmental law”. The Insurer shall have the right, but not the duty, to mitigate such “pollution conditions” or “indoor environmental condition” if, in the sole judgment of the Insurer, the “insured” fails to take reasonable steps to do so. In that event, any “remediation costs” or “catastrophe management costs” incurred by the Insurer shall be deemed incurred by the “insured”, and shall be subject to the “self-insured retention” and Limits of Liability identified in the Declarations to this Policy.

For the purposes of fulfilling the notice requirements contained in the Insuring Agreements to this Policy, notice supplied pursuant to one or more of the verbal or electronic notice mechanisms specifically contemplated in Subsection **A.**, above, or on the Declarations, shall constitute written notice to the Insurer.

VIII. EXTENDED REPORTING PERIOD

- A. Provided the “first named insured” has not purchased any other insurance to replace this Policy, the “first named insured” shall be entitled to a basic “extended reporting period”, and may purchase an optional supplemental “extended reporting period”, following Cancellation, as described in Subsection **A.**, Paragraph **1.** of Section **IX.**, **GENERAL CONDITIONS**, or nonrenewal of this Policy, in accordance with the terms and conditions described in Subsections **B.** through **D.**, below.
- B. “Extended reporting periods” shall not reinstate or increase any of the Limits of Liability. “Extended reporting periods” shall not extend the “policy period” or change the scope of coverage provided. A “claim” first made against an “insured” and reported to the Insurer within the basic “extended reporting period” or supplemental “extended reporting period”, whichever is applicable, shall be deemed to have been made and reported on the last day of the “policy period”. In addition, if an “insured” first discovers a “pollution condition” or “indoor environmental condition” during the “policy period” and reports such “first-party claim” to the Insurer within the basic “extended reporting period” or supplemental “extended reporting period”, whichever is applicable, then

such “first-party claim” shall also be deemed to have been first discovered and reported on the last day of the “policy period”.

- C. The “first named insured” shall have a ninety (90) day basic “extended reporting period” without additional charge.
- D. The “first named insured” shall also be entitled to purchase a supplemental “extended reporting period” of up to thirty-three (33) months for not more than two hundred percent (200%) of the full premium identified in Item 6. of the Declarations to this Policy, and any additional premiums resulting from coverage added during the “policy period”. Such supplemental “extended reporting period” starts when the basic “extended reporting period” ends. The Insurer shall issue an endorsement providing a supplemental “extended reporting period” provided that the “first named insured”:
 - 1. Makes a written request, to the address identified in Item 8.b. of the Declarations to this Policy, for such endorsement which the Insurer receives prior to the expiration of the “policy period”; and
 - 2. Pays the additional premium when due. If that additional premium is paid when due, the supplemental “extended reporting period” may not be cancelled, provided that all other terms and conditions of the Policy are met.

IX. GENERAL CONDITIONS

A. Cancellation

- 1. This Policy may be cancelled only by the “first named insured”, or through the “first named insured’s” agent, by mailing to the Insurer at the address identified in Item 8.b. of the Declarations to this Policy, written notice stating when such cancellation shall be effective.
- 2. This Policy may be cancelled by the Insurer for the following reasons:
 - a. Non-payment of premium; or
 - b. Fraud or material misrepresentation on the part of any “insured”,
by mailing to the “first named insured” at the “first named insured’s” last known address, written notice stating when, not less than sixty (60) days thereafter, fifteen (15) days if cancellation is for non-payment of any unpaid portion of the premium, such cancellation shall be effective. The mailing of notice shall be sufficient proof of notice. The effective date and hour of cancellation stated in the notice shall be the end of the “policy period”.
Subparagraph 2.b., herein, shall apply only to that “insured” that engages in the fraud or misrepresentation. This exception shall not apply to any “insured” that is a parent corporation, subsidiary, employer of, or otherwise affiliated by ownership with, such “insured”.
- 3. In the event of cancellation, the premium percentage identified in Item 6. of the Declarations to this Policy shall be the minimum-earned premium upon the inception date of this Policy. Thereafter, the remaining unearned premium, if any, shall be deemed earned by the Insurer on a *pro rata* basis over the remainder of the “policy period”. Any unearned premium amounts due the “first named insured” upon cancellation of this Policy shall be calculated on a *pro rata* basis and refunded within thirty (30) days of the effective date of cancellation.

B. Inspection and Audit

To the extent of the “insured’s” ability to provide such access, and with reasonable notice to the “insured”, the Insurer shall be permitted, but not obligated, to inspect and sample the “covered locations”. The “insured” shall have the concurrent right to collect split samples. Neither the Insurer’s right to make inspections, the making of said inspections, nor any report thereon shall constitute an undertaking, on behalf of or for the benefit of the “insured” or others, to determine or warrant that such property or operations are safe or in compliance with “environmental law”, or any other law.

The Insurer may examine and audit the “insured’s” books and records during this “policy period” and extensions thereof and within three (3) years after the final termination of this Policy.

C. Legal Action Against the Insurer

No person or organization other than an “insured” has a right pursuant to this Policy:

- 1. To join the Insurer as a party or otherwise bring the Insurer into a suit against any “insured”; or

2. To sue the Insurer in connection with this insurance unless all of the Policy terms have been fully complied with.

A person or organization may sue the Insurer to recover after an agreed settlement or on a final judgment against an "insured". However, the Insurer shall not be liable for amounts that are not payable pursuant to the terms of this Policy or that are in excess of the applicable Limit of Liability. An agreed settlement means a settlement and release of liability signed by the Insurer, the "insured", and the claimant or the claimant's legal representative.

D. Bankruptcy

The insolvency or bankruptcy of any "insured", or any "insured's" estate, shall not relieve the Insurer of its obligations pursuant to this Policy. However, any such insolvency or bankruptcy of the "insured", or the "insured's" estate, shall not relieve the "insured" of its "self-insured retention" or deductible period obligations pursuant to this Policy. This insurance shall not replace any other insurance to which this Policy is excess, nor shall this Policy drop down to be primary, in the event of the insolvency or bankruptcy of any underlying insurer.

E. Subrogation

In the event of any payment pursuant to this Policy by the Insurer, the Insurer shall be subrogated to all of the rights of recovery against any person or organization, and the "insured" shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights. All "insureds" shall do nothing to prejudice such rights. Any recovery as a result of subrogation proceedings arising pursuant to this Policy shall accrue first to the "insureds" to the extent of any payments in excess of the limit of coverage; then to the Insurer to the extent of its payment pursuant to the Policy; and then to the "insured" to the extent of the "self-insured retention". Expenses incurred in such subrogation proceedings shall be apportioned among the interested parties in the recovery in the proportion that each interested party's share in the recovery bears to the total recovery.

F. Representations

By accepting this Policy, the "first named insured" agrees that:

1. The statements in the Declarations, schedules and endorsements to, and Application for, this Policy are accurate and complete;
2. Those statements and representations constitute warranties that the "first named insured" made to the Insurer; and
3. This Policy has been issued in reliance upon the "first named insured's" warranties.

G. Separation of Insureds

Except with respect to the Limits of Liability, Cancellation condition **2.a.**, and any applicable exclusions, this Policy applies:

1. As if each "named insured" were the only "insured"; and
2. Separately to each "named insured" against whom a "claim" is made,

and any fraud, misrepresentation, breach of a condition or violation of any duty (hereinafter Breach) by an "insured" shall not prejudice coverage for any "named insured" pursuant to this Policy, provided that: **1)** such "named insured" did not participate in, know of or assist in such Breach; and **2)** such "named insured" is not a parent, subsidiary, partner, member, director, officer of, employer of or otherwise affiliated with, the "insured" that committed such Breach.

H. Other Insurance

If other valid and collectible insurance is available to any "insured" covering "loss" also covered by this Policy, other than a policy that is specifically written to apply in excess of this Policy, the insurance afforded by this Policy shall apply in excess of and shall not contribute with such other insurance.

I. Changes and Assignment

Notice to or knowledge possessed by any person shall not effect waiver or change in any part of this Policy or estop the Insurer from asserting any right pursuant to the terms of this Policy. The terms, definitions, conditions, exclusions and limitations of this Policy shall not be waived or changed, and no assignment of any interest in this Policy shall bind the Insurer, except as provided by endorsement and attached to this Policy.

J. Headings

The descriptions in the headings and sub-headings of this Policy are inserted solely for convenience and do not constitute any part of the terms or conditions hereof.

K. Consent

Where the consent of the Insurer, or an “insured”, is required pursuant to this Policy, such consent shall not be unreasonably withheld, delayed, conditioned, or denied.

PROCESSED

BUSINESS INTERRUPTION COVERAGE LIMITATIONS ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 001
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Solely to the extent that there is an **X** indicated in Sections **I.**, **II.** and/or **III.** of this Endorsement, below, the “insured” and the Insurer hereby agree to the following changes to this Policy:

I. **Sublimits of Liability**

Per Pollution Condition or Indoor Environmental Condition Sublimit of Liability: \$

Aggregate Pollution Conditions or Indoor Environmental Conditions Sublimit of Liability:
\$

The amount that the Insurer shall pay pursuant to this Policy for “business interruption loss” arising out of or related to “pollution conditions” or “indoor environmental conditions” is subject to the Per Pollution Condition or Indoor Environmental Condition Sublimit of Liability and Aggregate Pollution Conditions or Indoor Environmental Conditions Sublimit of Liability identified above. Therefore, the Per Pollution Condition or Indoor Environmental Condition Sublimit of Liability, above, shall be the maximum amount the Insurer shall pay for all “business interruption loss” arising out of or related to the same, continuous, repeated, or related “pollution condition” or “indoor environmental condition” to which this insurance applies. Moreover, the Aggregate Pollution Conditions or Indoor Environmental Conditions Sublimit of Liability, above, shall be the maximum amount the Insurer shall pay for all “business interruption loss” arising out of or related to all “pollution conditions” or “indoor environmental conditions” to which this insurance applies. These Sublimits of Liability are subject to, and payments made within these Sublimits of Liability shall erode, the Limits of Liability identified in Item **3.** of the Declarations to this Policy, along with any other applicable exposure-specific Limits or Sublimits of Liability added by endorsement hereto. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit or Sublimit of Liability.

II. **Exclusion**

- a.** Section **V.**, **DEFINITIONS**, Subsection **DD.**, of this Policy is hereby modified by deletion of the phrase “business interruption loss”; and
- b.** Section **VI.**, **EXCLUSIONS**, of this Policy is hereby amended to include the addition of the following:
This insurance also shall not apply to “business interruption loss”.

III. **Location-Specific Endorsement Application**

Solely to the extent that there is an **X** indicated in this Section **III.**, above, the “insured” and the Insurer hereby agree that the modifications identified in Sections **I.** and/or **II.** of this Endorsement only apply to “pollution conditions” or “indoor environmental conditions” associated with the “covered locations” specifically identified in the Schedule of Covered Locations, below:

Schedule of Covered Locations

All other terms and conditions of the Policy remain unchanged.

Authorized Representative

CLOSURE, REMOVAL OR REPLACEMENT EXCLUSIONARY (UNDERGROUND STORAGE TANKS) ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 002
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The “insured” and the Insurer hereby agree to the following changes to this Policy:

I. Section VI., EXCLUSIONS, of this Policy is hereby amended by addition of the following:

Out-of-Service or Replacement Underground Storage Tanks

“Loss” arising out of or related to “underground storage tanks” first commencing after such “underground storage tank” has been: **1)** closed-in place; or **2)** replaced, during the “policy period”, unless the Insurer has been provided with prior written notice of such action in strict conformance with Section **VII., Reporting and Cooperation**, of this Policy, (as amended by the Closure, Removal or Replacement Exclusionary Endorsement) and the Insurer’s intent to continue to provide prospective coverage for such “underground storage tank” has been explicitly confirmed via Insurer’s issuance of an endorsement to this Policy.

II. Section VII., Reporting and Cooperation, of this Policy is hereby amended by addition of the following:

Notice of Removal or Replacement

The “first named insured” must provide written notice to the Insurer of any “insured’s” intent to repair, close-in-place, remove from service and/or replace any covered “underground storage tanks”. Such notice must be provided to the Insurer at the address identified in Item **8.a. no fewer than three (3) business days** prior to the commencement date of any intrusive repair, closure-in-place, removal from service and/or replacement activities pertaining to the “underground storage tanks” and any operational system components thereof.

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

**SCHEDULE OF COVERED STORAGE TANKS (FINANCIAL RESPONSIBILITY)
ENDORSEMENT**

Named Insured City of Ann Arbor			Endorsement Number 003
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree that the following United States-based "underground storage tanks" and "aboveground storage tanks" are identified on this Schedule of Covered Storage Tanks (Financial Responsibility):

Schedule of Underground Storage Tanks (Financial Responsibility)

<u>Covered Location</u>	<u>Tank ID No.</u>	<u>Tank Size</u>	<u>Tank Contents</u>	<u>Retro Date</u>
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Schedule of Aboveground Storage Tanks (Financial Responsibility)

<u>Covered Location</u>	<u>Tank ID No.</u>	<u>Tank Size</u>	<u>Tank Contents</u>	<u>Retro Date</u>
-------------------------	--------------------	------------------	----------------------	-------------------

- | | | | | | |
|----|---|---|------------|-------------------|------------|
| 1. | 2000 S. Industrial Highway, Ann Arbor, MI | 1 | 15,000 gal | Unleaded Gasoline | 08/09/1995 |
| 2. | 2000 S. Industrial Highway, Ann Arbor, MI | 2 | 15,000 gal | Diesel | 08/09/1995 |
| 3. | 4251 Stone School Rd, Ann Arbor, MI | 6 | 15,000 gal | Unleaded Gasoline | 07/11/2007 |
| 4. | 4251 Stone School Rd, Ann Arbor, MI | 7 | 15,000 gal | Diesel | 07/11/2007 |

Solely with respect to the United States-based "underground storage tanks" or "aboveground storage tanks" identified with a Retroactive Date, above, no coverage pursuant to this Policy shall be afforded for any "pollution condition" commencing, in whole or in part, prior to the identified Retroactive Date.

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

**EXPOSURE–SPECIFIC DEDICATED LIMITS FOR FINANCIAL RESPONSIBILITY
(USTS - VIA GENERAL AGGREGATE SUBLIMIT – MULTI-YEAR)
ENDORSEMENT**

Named Insured City of Ann Arbor			Endorsement Number 004
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Solely with respect to coverage for “pollution conditions” emanating from United States-based “underground storage tanks” that are situated at a “covered location” and identified in the Schedule of Covered Storage Tanks (Financial Responsibility) Endorsement attached to this Policy (hereinafter Specifically Scheduled USTs), the “insured” and the Insurer hereby agree to the following changes to this Policy:

I. Non-Financial Responsibility Aggregate Sublimit of Liability: \$ 3,000,000

Notwithstanding anything identified in the Declarations of this Policy, or Section **II., LIMITS OF LIABILITY AND SELF INSURED-RETENTION**, of this Policy to the contrary, the *Non-Financial Responsibility Aggregate Sublimit of Liability*, above, shall be the most the Insurer shall pay for any and all “loss”, or any other amounts or payments of any kind or category, which are paid for all risk exposures covered pursuant to this Policy, except for indemnity payments made specifically for: 1) monetary judgments, awards or settlements of compensatory damages for bodily injury” or “property damage”, including associated “extra damages”; and 2) “first-party remediation costs”, which arise out of “pollution conditions” emanating from the Specifically Scheduled USTs pursuant to any USEPA or delegated state underground storage tank financial responsibility program with jurisdiction over those Specifically Scheduled USTs (hereinafter Financial Responsibility Requirements). Moreover, this *Non-Financial Responsibility Aggregate Sublimit of Liability* shall also be the most that the Insurer will pay for “legal defense expense” for risk exposures within the Financial Responsibility Requirements. This *Non-Financial Responsibility Aggregate Sublimit of Liability* is subject to, and payments made within this Sublimit of Liability shall erode, the Limits of Liability identified in Item **3.** of the Declarations to this Policy, along with any other applicable exposure-specific Limits or Sublimits of Liability added by endorsement hereto. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit or Sublimit of Liability.

II. Effectively Dedicated Aggregate Sublimit for Specifically Scheduled USTs

For the purposes of further clarity, the Insurer and the “insured” agree that the aforementioned *Non-Financial Responsibility Aggregate Sublimit of Liability* has been specifically instituted in order to effectively dedicate \$3,000,000 exclusively for indemnity payments for risk exposures within the Financial Responsibility Requirements. Subject to the excess indemnity payments specifically contemplated in Section **V.** of this Endorsement, below, This Effectively Dedicated Aggregate Sublimit for Specifically Scheduled USTs shall be the most that the Insurer shall pay for risk exposures within the Financial Responsibility Requirements arising out of all “pollution conditions” emanating from all of the Specifically Scheduled USTs.

III. Dedicated Annual Aggregate Sublimit for Specifically Scheduled USTs

Notwithstanding anything identified in the Declarations of this Policy, or Section **II., LIMITS OF LIABILITY AND SELF INSURED-RETENTION**, of this Policy to the contrary, the “insureds” and the Insurer acknowledge that a \$1,000,000 portion of the effectively dedicated \$3,000,000 amount, discussed above, must be dedicated for risk exposures within the Financial Responsibility Requirements (e.g., “claims” first made and/or conditions first discovered and reported) during each year of the “policy period” pursuant

to governing Federal and/or state regulations. As such, the “insureds” and the Insurer agree that this Policy effectively contains a corresponding Annual Aggregate Sublimit of Liability in the amount of \$1,000,000 for risk exposures within the Financial Responsibility Requirements.

IV. Dedicated Per Pollution Condition Sublimit for Specifically Scheduled USTs

The “insureds” and the Insurer also agree that this Policy contains a Dedicated Per Pollution Condition Sublimit for Specifically Scheduled USTs in the amount of **\$1,000,000**, which, subject to the excess indemnity payments specifically contemplated in Section V. of this Endorsement, below, shall be the most that the Insurer shall pay for risk exposures within the Financial Responsibility Requirements arising out of the same, continuous, repeated or related “pollution condition” emanating from a Specifically Scheduled UST.

V. Exhaustion of Dedicated Sublimits for USTs (Excess Payments Erosion of Remaining Limits) and Reinstatement of Annual Aggregate Sublimit

Once the Dedicated Per Pollution Condition Sublimit for Specifically Scheduled USTs in Section IV. of this Endorsement, above, or the Dedicated Annual Aggregate Sublimit for Specifically Scheduled USTs identified in Section III. of this Endorsement, above, have been exhausted with respect to indemnity payments made for risk exposures within the Financial Responsibility Requirements, then any additional indemnity payments made pursuant to this Policy shall begin to erode the amounts identified in the *Non-Financial Responsibility Aggregate Sublimit of Liability*, above, and shall continue to be subject to, and shall erode, the Limits of Liability identified in Item 3. of the Declarations to this Policy, along with any other applicable exposure-specific Limits or Sublimits of Liability added by endorsement hereto. Upon the annual anniversary of the inception date identified in Item 2. of the Declarations to this Policy, the Dedicated Annual Aggregate Sublimit of Liability shall effectively reinstate, thereby offering an additional, annual \$1,000,000 of aggregate coverage for new risk exposures within the Financial Responsibility Requirements (e.g., “claims” first made and/or conditions first discovered and reported to the Insurer during the next year of the “policy period”).

VI. All references to the phrase “self-insured retention” within this Policy that are not otherwise specifically modified within this Endorsement are hereby changed to the word *deductible*.

VII. Section II., **LIMITS OF LIABILITY AND SELF-INSURED RETENTION**, Subsection A., of this Policy is hereby deleted in its entirety and replaced with the following:

A. The Insurer’s obligation to pay for risk exposures within the Financial Responsibility Requirements to which this insurance applies shall be reduced by the deductible amount identified in the Exposure-Specific Dedicated Limits for Financial Responsibility (USTs – Via General Aggregate Sublimit – Multi-Year) Endorsement attached to this Policy. The Insurer may, at its sole discretion, pay all or part of the deductible amount to effect settlement of any “claims” or “first-party claims” involving risk exposures within the Financial Responsibility Requirements. Upon notification of the Insurer’s payment of such deductible amount, the “first named insured” shall reimburse the Insurer for the deductible amount that the Insurer has paid on its behalf within thirty (30) calendar days.

VIII. Section V., **DEFINITIONS**, of this Policy is hereby amended by addition of the following:

“Corrective action costs” means expenses necessarily incurred by an “insured” to investigate, quantify, assess, monitor, abate, remove, dispose, treat, neutralize or immobilize “pollution conditions” emanating from Specifically Scheduled USTs, to the extent that such expenses are required to be covered within Federal and/or state regulations governing those Specifically Scheduled USTs.

IX. Section V., **DEFINITIONS**, Subsection LL., of this Policy is hereby amended by addition of the following:

Solely with respect to coverage for Financial Responsibility Requirements for Specifically Scheduled USTs, “pollution condition” means any spilling, leaking, emitting, discharging,

dispersing, seeping, escaping or releasing of the contents of any such “underground storage tanks” into surface soils, subsurface soils, surface water, or groundwater.

X. Section V., **DEFINITIONS**, Subsection V., of this Policy is hereby amended by addition of the following:

Solely with respect to coverage for Financial Responsibility Requirements for Specifically Scheduled USTs, “**first-party remediation costs**” means “corrective action costs”.

XI. Section VIII., **EXTENDED REPORTING PERIOD**, Subsections C. and D., of this Policy, are hereby deleted in their entirety and replaced with the following:

C. Provided the “first named insured” has not purchased any other insurance to replace this Policy, which has applicable retroactive dates that are equal to or earlier in time than the corresponding Retroactive Dates contained in this Policy , the “first named insured” shall:

1. As a general matter, have a ninety (90) day basic “extended reporting period” without additional charge; and,
2. With respect to coverage for liability “claims” for “bodily injury” or “property damage” arising out of “pollution conditions” emanating from Specifically Scheduled USTs, only, have a one hundred and eighty (180) day basic “extended reporting period” without additional charge.

D. Provided the “first named insured” has not purchased any other insurance to replace this Policy, which has applicable retroactive dates that are equal to or earlier in time than the corresponding Retroactive Dates contained in this Policy, the “first named insured” shall also be entitled to purchase a supplemental “extended reporting period” of up to thirty-three (33) months and thirty (30) months corresponding to the basic reporting extensions provided pursuant to Subsection C., Paragraphs 1. and 2., above, respectively, for not more than two hundred percent (200%) of the full premium identified in Item 6. of the Declarations to this Policy, and any additional premiums resulting from coverage added during the “policy period”. Such supplemental “extended reporting period” starts when the basic “extended reporting period” ends. The Insurer shall issue an endorsement providing a supplemental “extended reporting period” provided that the “first named insured”:

1. Makes a written request, to the address identified in Item 8.b. of the Declarations to this Policy, for such endorsement which the Insurer receives prior to the expiration of the “policy period”; and
2. Pays the additional premium when due. If that additional premium is paid when due, the supplemental “extended reporting period” may not be cancelled, provided that all other terms and conditions of the Policy are met.

XII. Section IX., **GENERAL CONDITIONS**, Subsection D., **Bankruptcy**, of this Policy is hereby deleted in its entirety and replaced with the following:

D. Bankruptcy

The insolvency or bankruptcy of any “insured” or any “insured's” estate shall not relieve the Insurer of its obligations pursuant to this Policy. This insurance shall not replace any other insurance to which this Policy is excess, nor shall this Policy drop down to be primary, in the event of the insolvency or bankruptcy of any underlying insurer.

XIII. Deductible

Notwithstanding anything identified in Item 4. of the Declarations of this Policy, or any Aggregated Self-Insured Retention Endorsement attached to this Policy, if any, \$100,000 shall be the deductible applicable to each "pollution condition" emanating from a Specifically Scheduled UST to which this Endorsement applies.

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

KNOWN CONDITIONS EXCLUSION AMENDATORY ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 005
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section VI., **EXCLUSIONS**, Subsection K., **Known Conditions**, of this Policy is hereby deleted in its entirety and replaced by the following:

K. Known Conditions

"Loss" arising out of or related to "pollution conditions" or "indoor environmental conditions" in existence and reported to a "responsible person":

1. Prior to the "policy period"; or,
2. Solely with respect to "covered locations" added to this Policy during the period of time specifically identified in Item 2. of the Declarations to the Policy, if any, prior to the effective date of coverage for such "covered location",

including any "pollution conditions" or "indoor environmental conditions" discovered during the normal course of further investigation or remediation of such reported "pollution conditions" or "indoor environmental conditions".

This exclusion shall not apply to:

1. "Pollution conditions" or "indoor environmental conditions" specifically referenced in, or identified in documents listed on, the Schedule of Disclosed Conditions Endorsement attached to this Policy, if any; or
2. "Pollution conditions" or "indoor environmental conditions" that have been reported to the "responsible person" as not being actionable pursuant to "environmental law" in any Phase I or Phase II Environmental Site Assessment report (or its functional equivalent) specifically prepared for a "named insured" by a qualified environmental consultant. To the extent that the qualified consultant's actionability determination is premised, in whole or in part, on the use of institutional or engineering controls in effect at a "covered location", any coverage afforded pursuant to this paragraph shall be contingent upon:
 - a. The continued maintenance of said engineering controls; and
 - b. The continued use of the property in a manner consistent with the consultant's reported assumptions, during the "policy period".

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

NOTICE OF CANCELLATION AMENDATORY (GENERIC TIME FRAME) ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 006
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **IX., GENERAL CONDITIONS**, Subsection **A., Cancellation**, Paragraph **2.**, of this Policy is hereby deleted in its entirety and replaced with the following:

2. This Policy may be cancelled by the Insurer for the following reasons:

- a. Non-payment of premium; or
- b. Fraud or material misrepresentation on the part of any "insured",

by mailing to the "first named insured" at the "first named insured's" last known address, written notice stating when, not less than ninety (90) days thereafter, fifteen (15) days if cancellation is for non-payment of any unpaid portion of the premium, such cancellation shall be effective. The mailing of notice shall be sufficient proof of notice. The effective date and hour of cancellation stated in the notice shall be the end of the "policy period".

Subparagraph **2.b.**, herein, shall apply only to that "insured" that engages in the fraud or misrepresentation. This exception shall not apply to any "insured" who is a parent corporation, subsidiary, employer of, or otherwise affiliated by ownership with, such "insured".

All other terms and conditions of the Policy remain unchanged.

Authorized Representative

OTHER INSURANCE (PRIMARY) ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 007
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section IX., **GENERAL CONDITIONS**, Subsection H., **Other Insurance**, of this Policy is hereby deleted in its entirety and replaced with the following:

H. Other Insurance

If other valid and collectible insurance is available to the "insured" covering any exposure also covered by this Policy, the insurance afforded by this Policy shall apply as primary insurance.

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

PREMIUM EARN-OUT (STAGGERED – ONE YEAR – ACCELERATION) ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 008
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section IX., **GENERAL CONDITIONS**, Subsection A., **Cancellation**, Paragraph 3., of this Policy is hereby deleted in its entirety and replaced with the following:

3. Premium Earn-Out

- a. Subject to Subparagraph b., below, in the event of cancellation, twenty-five percent (25 %) of the premium identified in Item 6. of the Declarations shall be minimum earned upon the inception date identified in Item 2. of the Declarations. Thereafter, the remaining premium shall be deemed earned by the Insurer on a *pro rata* basis over the first year of the "policy period".
- b. In the event a "claim" is first made against an "insured", or a "pollution condition" or "indoor environmental condition" is first discovered by an "insured", during the "policy period", to which this insurance may apply, in whole or in part, the premium identified in Item 6. of the Declarations shall be immediately deemed one hundred percent (100%) earned upon such event.

Subject to the foregoing, any unearned premium amounts due the "first named insured", if any, shall be refunded within thirty (30) days of the effective date of cancellation.

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

PUBLIC ENTITY COVERAGE AMENDATORY ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 009
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The “insureds” and the Insurer hereby agree to the following changes to this Policy:

- I. Section I., INSURING AGREEMENTS**, of this Policy is hereby amended by addition of the following:

SUPPLEMENTAL COVERAGE - COVERED OPERATIONS

“Claims” and “first-party claims” arising out of a “pollution condition” or “indoor environmental condition” resulting from “covered operations”, provided the “claim” is first made, or the “insured” first discovers such “pollution condition” or “indoor environmental condition”, during the “policy period”. Any such “claim” or “first-party claim” must be reported to the Insurer, in writing, during the “policy period” or within thirty (30) days after the expiration of the “policy period”, or during any applicable “extended reporting period”.

The coverage afforded pursuant to this Supplemental Coverage shall only apply to “pollution conditions” or “indoor environmental conditions” that first commence, in their entirety, on or after the Retroactive Date identified below and prior to the expiration of the “policy period”.

Retroactive Date: 02/19/2013

- II. Solely with respect to the coverage afforded pursuant to the Supplemental Coverage in this Endorsement**, the following additional provisions apply:

Limits of Liability and Self-Insured Retention

Per Operations Condition Sublimit of Liability: \$ 3,000,000

Aggregate Operations Conditions Sublimit of Liability: \$ 3,000,000

The amount that the Insurer shall pay pursuant to this Policy for “loss” for coverage afforded pursuant to this Endorsement shall be subject to the Per Operations Condition Sublimit of Liability and Aggregate Operations Conditions Sublimit of Liability identified above. Therefore, the Per Operations Condition Sublimit of Liability, above, shall be the maximum amount the Insurer shall pay for all “loss” arising out of or related to the same, continuous, repeated, or related “pollution condition” or “indoor environmental condition” resulting from “covered operations” to which this insurance applies. Moreover, the Aggregate Operations Conditions Sublimit of Liability, above, shall be the maximum amount the Insurer shall pay for all “loss” arising out of or related to all “pollution conditions” and “indoor environmental conditions” resulting from “covered operations” to which this insurance applies. These Sublimits of Liability are subject to, and payments made within these Sublimits of Liability shall erode, the Limits of Liability identified in Item 3. of the Declarations to this Policy, along with any other applicable exposure-specific Limits or Sublimits of Liability added by endorsement hereto. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit or Sublimit of Liability.

Per Operations Condition Self-insured Retention: \$ 50,000

Notwithstanding anything identified in Item 4. of the Declarations to this Policy that might be construed to the contrary, the Per Operations Condition Self-Insured Retention, above, shall be the “self-insured retention” applicable to any coverage provided pursuant to this Policy for each “pollution condition” or “indoor environmental condition” resulting from “covered operations” to which this insurance applies.

III. Solely with respect to the coverage afforded pursuant to this Supplemental Coverage, Section V., DEFINITIONS, Subsections M. and DD., of this Policy are hereby deleted in their entirety and replaced with the following:

M. “Emergency response costs” means “first-party remediation costs” incurred within seven (7) days following the discovery of a “pollution condition” or “indoor environmental condition” by a “responsible person” in order to abate or respond to an imminent and substantial threat to human health or the environment arising out of:

1. A “pollution condition” or “indoor environmental condition” on, at, under or migrating from a “covered location”;
2. A “pollution condition” or “indoor environmental condition” resulting from “covered operations”; or
3. A “pollution condition” resulting from “transportation”,

provided such “emergency response costs” are reported to the Insurer within fourteen (14) days of when that “responsible person” first became aware of such “pollution condition” or “indoor environmental condition”.

DD. “Loss” means:

1. A monetary judgment, award or settlement of compensatory damages arising from “bodily injury”, “property damage” or “remediation costs”, including associated “extra damages” and “legal defense expense”;
2. “Emergency response costs” and associated “legal defense expense”; and
3. “Catastrophe management costs”.

IV. Section V., **DEFINITIONS**, of this Policy is hereby amended by addition of the following:

“Covered operations” means any operations specifically identified in the Application and any supporting documentation provided to the Insurer by the “first named insured” prior to the inception date identified in Item 2. of the Declarations to this Policy, which are performed by or on behalf of a “named insured” outside of the physical boundaries of a “covered location”.

“Covered operations” does not mean “transportation”.

“Sewage Backup” means the reverse flow of sewage via subsurface sewer lines, to or from a “covered location”, into or onto locations that are not “covered locations”, including, but not limited to, third party residences, businesses, or any other structures on land or into any soil, groundwater, surface water or air associated with such third party residences, businesses, or any other structures.

V. Section V., **DEFINITIONS**, Subsections **AA.**, **PP.** and **TT.**, of this Policy are hereby deleted in their entirety and replaced with the following:

AA. “Insured” means the “first named insured”, any “named insured”, any “additional insured” and any of the following:

1. If any “named insured” pursuant to this Policy is a Public Entity, the following entities are additional “insureds”:

- a. A governmental agency or subdivision, department, municipal body, commission or board, or a not-for profit corporation which is owned or controlled by any “named insured”;
 - b. An individual while acting in the capacity as a director of, officer of, trustee of, employee of, temporary or leased worker of, or staff member of, any “named insured”;
 - c. A volunteer, but solely while acting within the scope of such duties and at the direction of any “named insured”;
 - d. A paramedic or emergency technician, but solely while acting within the course and scope of employment or while acting as a volunteer pursuant to the direction of any “named insured”;
 - e. An elective or appointive officer or a member of any such commission, board or agency of any “named insured” but solely while acting within the scope of duties as such; or
 - f. A joint venture or partnership, including a mutual assistance pact, joint powers agreement or similar association, but only with respect to the conduct of the business of any “named insured” on behalf of that entity or association and only to the extent of such “named insured’s” participation or interest in that entity or association.
2. If the “named insured” is an Educational Entity, the following persons or entities are additional “insureds”, individually and collectively, when acting solely within the scope of their duties, office, or employment for, and pursuant to the supervision of, any “named insured”:
- a. Members of the School Board;
 - b. Officers;
 - c. Employees;
 - d. Temporary or Leased Workers;
 - e. Authorized individual volunteers; or
 - f. Student Body Organizations pursuant to the jurisdiction of the governing board, but only while pursuant to the supervision required by the governing board.

PP. “Responsible person” means any employee of an “insured” responsible for environmental affairs, control, or compliance at a “covered location”, or any “key executive” of, officer or director of, partner in, or elected official of, an “insured”.

TT. “Transportation” means:

- 1. The movement of an “insured’s” waste, materials, goods or products to or from a “covered location” by automobile, aircraft, watercraft, railcar or other conveyance, including any associated loading or unloading thereof, by an “insured”, or any third-party vendor engaged by an “insured” in the business of transporting property for hire, provided that any such movement, and associated loading and unloading activities, are performed beyond the boundaries of a “covered location”; and
- 2. Automobile livery services conducted by or on behalf of an “insured”.

VI. Solely with respect to the coverage afforded pursuant to the Supplemental Coverage in this Endorsement, Section VI., EXCLUSIONS, Subsection M., Material Change in Risk, of this Policy is hereby deleted in its entirety and replaced with the following:

N. Material Change in Risk

“Loss” arising out of or related to a change in “covered operations” that materially increases the likelihood or severity of a “pollution condition”, “indoor environmental condition”, “claim” or “first-party claim” from the operations identified by the “first named insured” for the Insurer an

Application or supplemental underwriting materials provided prior to the effective date of coverage for such “covered operations”, if any.

This exclusion shall only apply to the changed operations and shall not limit coverage for other “covered operations” to which this insurance applies.

VII. Section VI., **EXCLUSIONS**, of this Policy is hereby amended by addition of the following:

Failure to Follow Asbestos and/or Lead-Based Paint Management Plans

“Loss” arising out of or related to the presence of lead-based paint, asbestos or asbestos containing material and an “insured’s” failure to properly maintain or manage any building or structure situated on the “covered locations”, or any system, fixture or personal property contained therein, in conformance with the asbestos management plans and lead-based paint management plans provided to the Insurer prior to the inception date identified in Item 2. of the Declarations to this Policy, or any asbestos management plans and lead-based paint management plans approved, in writing, by the Insurer during the “policy period”.

Failure to Follow Fungi and/or Legionella Management Plans

“Loss” arising out of or related to an “indoor environmental condition” and an “insured’s” failure to properly maintain or manage any building or structure situated on the “covered locations”, or any system, fixture or personal property contained therein, in conformance with the water intrusion plans, and “fungi” or *legionella pneumophila* management plans, provided to the Insurer prior to the inception date identified in Item 2. of the Declarations to this Policy, or any water intrusion plans, and “fungi” or *legionella pneumophila* management plans, approved, in writing, by the Insurer during the “policy period”.

Landfills or Recycling Facilities

“Loss” arising out of or related to “pollution conditions” on, at or under any Landfills or Recycling Facilities that are now, or have been at any time been, leased, owned or operated by an “insured”.

This exclusion shall not apply to “claims” for “bodily injury” or “property damage” arising out of “pollution conditions” allegedly migrating from Landfills or Recycling Facilities that are specifically scheduled as “covered locations” pursuant to an endorsement attached to this Policy.

Professional Liability

“Loss” arising out of or related to the rendering of or failure to render professional services, including, but not limited to, recommendations, opinions, and strategies rendered for architectural, consulting, design and engineering work, such as drawings, designs, maps, reports, surveys, change orders, plan specifications, assessment work, remedy selection, site maintenance, equipment selection, and related construction management, supervisory, inspection or engineering services.

Regulatory Compliance

“Loss” arising out of or related to an “insured’s” failure to comply with applicable Federal, state, or local regulations governing compliance with respect to any a covered “underground storage tank”.

This exclusion shall not apply to any such non-compliance that occurs subsequent to release from a covered “underground storage tank”.

Sewage Backup

“Loss” arising out of or related to “pollution conditions” or “indoor environmental conditions” resulting from, in whole or in part, a “sewage backup”.

Work Product

“Loss” arising out of or related to work or operations performed by you or on your behalf, unless such work or operations are “covered operations”.

VIII. Section **VII., REPORTING AND COOPERATION**, Subsection **A., Paragraph 2.**, of this Policy is hereby deleted in its entirety and replaced with the following:

2. The identity of the “covered location” or a detailed description of the “covered operations”;

IX. Section **IX., GENERAL CONDITIONS**, Subsection **A., Cancellation**, Paragraph **2.**, of this Policy is hereby amended by addition of the following:

c. Material change in the “covered operations” from the description identified in the Application to this Policy and supporting materials, which results in an increased likelihood of “claims”, “first-party claims”, “pollution conditions” or “indoor environmental conditions”,

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

SCHEDULE OF COVERED LOCATIONS ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 010
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

The locations identified in the Schedule of Covered Locations, below, are hereby added to this Policy as additional "covered locations".

SCHEDULE OF COVERED LOCATIONS

<u>Location</u>	<u>Retroactive Date</u>
1. 4120 Platt Road, Ann Arbor, MI	02/19/2013

If a "covered location", above, is identified with a corresponding Retroactive Date, then that date shall supersede the general Retroactive Date identified for premises coverage afforded pursuant to Coverage A. within Item 5. of the Declarations to this Policy for "pollution conditions" on, at under or migrating from, or "indoor environmental conditions" at, that specific "covered location". Also, if a "covered location", above, is identified with the phrase "**FULL RETRO**", then full retroactive coverage is afforded pursuant to this Policy for "pollution conditions" on, at under or migrating from, or "indoor environmental conditions" at, that specific "covered location". Notwithstanding the foregoing, any retroactive coverage indicated herein is subject to any other exposure-specific Retroactive Date added to this Policy by endorsement.

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

DISCLOSURE PURSUANT TO TERRORISM RISK INSURANCE ACT

Named Insured City of Ann Arbor			Endorsement Number 011
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Disclosure Of Premium

In accordance with the federal Terrorism Risk Insurance Act, we are required to provide you with a notice disclosing the portion of your premium, if any, attributable to coverage for terrorist acts certified under the Terrorism Risk Insurance Act. The portion of your premium attributable to such coverage is shown in this endorsement or in the policy Declarations.

Disclosure Of Federal Participation In Payment Of Terrorism Losses

The United States Government, Department of the Treasury, will pay a share of terrorism losses insured under the federal program. The federal share equals 85% for year 2015, 84% beginning on January 2016; 83% beginning on January 1 2017, 82% beginning on January 1, 2018; 81% beginning on January 1, 2019 and 80% beginning on January 1, 2020 of that portion of the amount of such insured losses that exceeds the applicable insurer retention. However, if aggregate insured losses attributable to terrorist acts certified under the Terrorism Risk Insurance Act exceed \$100 billion in a calendar year, the Treasury shall not make any payment for any portion of the amount of such losses that exceeds \$100 billion.

Cap On Insurer Participation In Payment Of Terrorism Losses

If aggregate insured losses attributable to terrorist acts certified under the Terrorism Risk Insurance Act exceed \$100 billion in a calendar year and we have met our insurer deductible under the Terrorism Risk Insurance Act, we shall not be liable for the payment of any portion of the amount of such losses that exceeds \$100 billion, and in such case insured losses up to that amount are subject to pro rata allocation in accordance with procedures established by the Secretary of the Treasury.

Terrorism Risk Insurance Act premium: \$.

Authorized Representative

TERRORISM RISK INSURANCE ACT ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 012
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Terrorism Premium (Certified Acts of Terrorism): \$ _

In consideration of the additional premium indicated above, which is included in the Premium as listed on the Declarations, the "insured" and the Insurer, hereby agree to the following Policy change(s):

- A. With respect to any "hostile acts" or "terrorism" exclusions contained in this Policy, or attached to this Policy by endorsement, such exclusions do not apply to a "certified act of terrorism", as defined in Paragraph C., below.
- B. With respect to any one or more "certified acts of terrorism", the Insurer will not pay any amounts for which the Insurer is not responsible under the terms of the federal Terrorism Risk Insurance Act ("TRIA"), due to the application of any clause which results in a cap on the Insurer's liability for payments for terrorism losses.
- C. "Certified act of terrorism" means an act that is certified by the Secretary of the Treasury, in consultation with the Secretary of Homeland Security and the Attorney General of the United States, to be an act of terrorism pursuant to TRIA. The criteria contained TRIA for a "certified act of terrorism" include the following:
 1. The act resulted in insured losses in excess of \$5 million attributable to all types of insurance subject to TRIA; and
 2. The act is a violent act or an act that is dangerous to human life, property or infrastructure and is committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.
- D. Notwithstanding any coverage that may otherwise be afforded for punitive damages under this Policy, if any, coverage shall not be afforded for damages arising, directly or indirectly, out of a "certified act of terrorism" that are awarded as punitive damages.
- E. The coverage afforded under this endorsement shall expire at the earlier of the following dates:
 1. The end of the "policy period", as indicated on the Declarations; or
 2. **December 31, 2020.**

- F. The premium for “certified acts of terrorism” coverage is calculated based in part on the federal participation in payment of terrorism losses as set forth in TRIA. The federal program established by TRIA is scheduled to terminate at the end of December 31, 2020, unless extended by the federal government.
- G. If this “policy period” extends beyond December 31, 2020, please note that the TRIA premium, above, is premised on the parties’ assumption that TRIA will later be extended through the end of the “policy period”, thereby mandating that Insurer make available coverage for “certified acts of terrorism” for the entire “policy period”. In the event that TRIA is not extended beyond December 31, 2020, or otherwise expires at some point during the “policy “period”, the Insurer will refund the unearned portion of our TRIA premium to the insured on a pro-rata basis. In the event that new TRIA extension or replacement legislation is enacted requiring the Insurer to offer coverage for terrorism that is materially different than the coverage requirements included in the current version of TRIA that expires on December 31, 2020, the Insurer reserves the right to re-price and prospectively modify terrorism coverage to conform with the statutory requirements and risks presented by any such new legislation.

All other terms and conditions of the policy remain unchanged.

Authorized Representative

TRADE OR ECONOMIC SANCTIONS ENDORSEMENT

Named Insured City of Ann Arbor			Endorsement Number 013
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This insurance does not apply to the extent that trade or economic sanctions or other laws or regulations prohibit us from providing insurance, including, but not limited to, the payment of claims. All other terms and conditions of the policy remain unchanged.

Authorized Representative

MICHIGAN CHANGES - CANCELLATION AND NONRENEWAL

Named Insured City of Ann Arbor			Endorsement Number 014
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

If the policy or coverage part to which this endorsement applies contains cancellation or nonrenewal provisions more favorable to the Named Insured than this endorsement, then those provisions apply.

I. The Cancellation Condition is replaced by the following:

A. Cancellation

1. The first Named Insured shown in the Declarations may cancel this policy at any time by giving us or our authorized agent notice of cancellation on or before the date of cancellation.
2. We may cancel this policy by mailing or delivering to the first Named Insured written notice of cancellation at least:
 - a. 10 days before the effective date of cancellation if we cancel for nonpayment of premium; or
 - b. 30 days before the effective date of cancellation if we cancel for any other reason.
3. We will mail or deliver our notice to the first Named Insured's last mailing address known to us or our authorized agent.
4. The time of surrender or the effective date and hour of cancellation stated in the notice shall become the end of the policy period.
5. If this policy is cancelled, we will send the first Named Insured any pro rata premium refund due. The minimum earned premium shall not be less than the pro rata premium for the expired time or \$25.00, whichever is greater. The cancellation will be effective even if we have not made or offered a refund.
6. If notice is mailed, proof of mailing will be sufficient proof of notice.

II. The following Condition supersedes any other provisions to the contrary:

NONRENEWAL

If we decide not to renew this policy we will mail or deliver to the first Named Insured's last mailing address known to us or our authorized agent written notice of the nonrenewal not less than 30 days before the expiration date.

If notice is mailed, proof of mailing will be sufficient proof of notice.

Authorized Representative



SIGNATURES

Named Insured City of Ann Arbor			Endorsement Number 015
Policy Symbol PPL	Policy Number G27169120 003	Policy Period 02/19/2019 to 02/19/2022	Effective Date of Endorsement 02/19/2019
Issued By (Name of Insurance Company) ACE American Insurance Company			

THE ONLY COMPANY APPLICABLE TO THIS POLICY IS THE COMPANY NAMED ON THE FIRST PAGE OF THE DECLARATIONS.

By signing and delivering the policy to you, we state that it is a valid contract.

- INDEMNITY INSURANCE COMPANY OF NORTH AMERICA** (A stock company)
- BANKERS STANDARD INSURANCE COMPANY** (A stock company)
- ACE AMERICAN INSURANCE COMPANY** (A stock company)
- ACE PROPERTY AND CASUALTY INSURANCE COMPANY** (A stock company)
- INSURANCE COMPANY OF NORTH AMERICA** (A stock company)
- PACIFIC EMPLOYERS INSURANCE COMPANY** (A stock company)
- ACE FIRE UNDERWRITERS INSURANCE COMPANY** (A stock company)
- WESTCHESTER FIRE INSURANCE COMPANY** (A stock company)

436 Walnut Street, P.O. Box 1000, Philadelphia, Pennsylvania 19106-3703

REBECCA L. COLLINS, Secretary

JOHN J. LUPICA, President

CHUBB®

**Michigan
Disclaimer Notice
Commercial Lines Deregulation**

This policy is exempt from the filing requirements of Section 2236 of the Insurance Code of 1956, 1956 PA 218 and MCL 500.2236.



ACE American Insurance Company
Insurance Company

City of Ann Arbor
Policyholder

PPL G27169120 003
Policy Number

Hylant Group Inc
Broker/Producer

POLICYHOLDER DISCLOSURE NOTICE OF TERRORISM INSURANCE COVERAGE

You were notified that under the Terrorism Risk Insurance Act, as amended, you have a right to purchase insurance coverage for losses resulting from acts of terrorism. *As defined in Section 102(1) of the Act:* The term "act of terrorism" means any act or acts that are certified by the Secretary of the Treasury---in consultation with the Secretary of Homeland Security, and the Attorney General of the United States---to be an act of terrorism; to be a violent act or an act that is dangerous to human life, property, or infrastructure; to have resulted in damage within the United States, or outside the United States in the case of certain air carriers or vessels or the premises of a United States mission; and to have been committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.

YOU SHOULD KNOW THAT WHERE COVERAGE IS PROVIDED BY YOUR POLICY FOR LOSSES RESULTING FROM CERTIFIED ACTS OF TERRORISM, SUCH LOSSES MAY BE PARTIALLY REIMBURSED BY THE UNITED STATES GOVERNMENT UNDER A FORMULA ESTABLISHED BY FEDERAL LAW. HOWEVER, YOUR POLICY MAY CONTAIN OTHER EXCLUSIONS WHICH MIGHT AFFECT YOUR COVERAGE, SUCH AS AN EXCLUSION FOR NUCLEAR EVENTS. UNDER THE FORMULA, THE UNITED STATES GOVERNMENT GENERALLY REIMBURSES 85% FOR YEAR 2015, 84% BEGINNING ON JANUARY 1, 2016; 83% BEGINNING ON JANUARY 1, 2017, 82% BEGINNING ON JANUARY 1, 2018; 81% BEGINNING ON JANUARY 1, 2019 AND 80% BEGINNING ON JANUARY 1, 2020, OF COVERED TERRORISM LOSSES EXCEEDING THE STATUTORILY ESTABLISHED DEDUCTIBLE PAID BY THE INSURANCE COMPANY PROVIDING THE COVERAGE. THE PREMIUM THAT WOULD BE CHARGED FOR THIS COVERAGE IS PROVIDED BELOW AND DOES NOT INCLUDE ANY CHARGES FOR THE PORTION OF LOSS THAT MAY BE COVERED BY THE FEDERAL GOVERNMENT UNDER THE ACT.

YOU SHOULD ALSO KNOW THAT THE TERRORISM RISK INSURANCE ACT, AS AMENDED, CONTAINS A \$100 BILLION CAP THAT LIMITS U.S. GOVERNMENT REIMBURSEMENT AS WELL AS INSURERS' LIABILITY FOR LOSSES RESULTING FROM CERTIFIED ACTS OF TERRORISM WHEN THE AMOUNT OF SUCH LOSSES IN ANY ONE CALENDAR YEAR EXCEEDS \$100 BILLION. IF THE AGGREGATE INSURED LOSSES FOR ALL INSURERS EXCEED \$100 BILLION, YOUR COVERAGE MAY BE REDUCED.

You elected **NOT** to purchase terrorism coverage under the Act at the price indicated. ACCORDINGLY, WE WILL **NOT** PROVIDE THIS COVERAGE AND YOU DO NOT OWE THE ADDITIONAL PREMIUM FOR THAT COVERAGE INDICATED BELOW.

Terrorism coverage described by the Act under your policy was made available to you for additional premium in the amount of \$_, however you elected to decline such coverage.

CHUBB®

**Chubb Producer Compensation
Practices & Policies**

Chubb believes that policyholders should have access to information about Chubb's practices and policies related to the payment of compensation to brokers and independent agents. You can obtain that information by accessing our website at <http://www.chubbproducercompensation.com> or by calling the following toll-free telephone number: 1-866-512-2862.

U.S. TREASURY DEPARTMENT'S OFFICE OF FOREIGN ASSETS CONTROL ("OFAC") ADVISORY NOTICE TO POLICYHOLDERS

No coverage is provided by this Policyholder Notice nor can it be construed to replace any provisions of your policy. You should read your policy and review your Declarations page for complete information on the coverages you are provided.

This Notice provides information concerning possible impact on your insurance coverage due to directives issued by OFAC. **Please read this Notice carefully.**

The Office of Foreign Assets Control (OFAC) administers and enforces sanctions policy, based on Presidential declarations of "national emergency". OFAC has identified and listed numerous:

- Foreign agents;
- Front organizations;
- Terrorists;
- Terrorist organizations; and
- Narcotics traffickers;

as "Specially Designated Nationals and Blocked Persons". This list can be located on the United States Treasury's web site – <http://www.treas.gov/ofac>.

In accordance with OFAC regulations, if it is determined that you or any other insured, or any person or entity claiming the benefits of this insurance has violated U.S. sanctions law or is a Specially Designated National and Blocked Person, as identified by OFAC, this insurance will be considered a blocked or frozen contract and all provisions of this insurance are immediately subject to OFAC. When an insurance policy is considered to be such a blocked or frozen contract, no payments nor premium refunds may be made without authorization from OFAC. Other limitations on the premiums and payments also apply.



APPENDIX E

VOLATILIZATION INTO INDOOR AIR PATHWAY SCREENING LEVELS ASSESSMENT

VOLATILIZATION TO INDOOR AIR PATHWAY SCREENING LEVELS ASSESSMENT

The following checklist will assist in determining if site conditions allow the use of the Volatilization to Indoor Air Pathway (VIAP) Screening Levels or if the development of site-specific criteria or site-specific target levels (SSTLs) is necessary.

Proposed use of the VIAP Screening Levels requires documentation of site conditions that must include:

- *Photographs in photo log with date stamp showing building type (and size for non-residential requests) for structures or as-builts that document the responses on the screening levels checklist (slab-on-grade, basement, etc.).*
- *Documentation that the depth to shallowest encountered groundwater is representative of site conditions taking variability into account (monitor well logs, soil boring logs, groundwater elevation tables, etc.)*

Residential VIAP Screening Levels (Table 1) are calculated based on unrestricted residential use of a property. The building input parameters assume a residential structure with a basement.

CSM SUPPORTS	PAGE NUMBER	ADDITIONAL INFO NEEDED	RESIDENTIAL VIAP SCREENING LEVEL ASSESSMENT
Yes <input type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/>	Is there a poured concrete floor, block or poured concrete wall in a basement? <i>If no, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/>	Is there a slab-on-grade foundation? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/>	Is there a crawl space foundation, with dirt floor or poured concrete slab? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/>	Is the structure a high-rise apartment with 6 or more floors (including a basement)? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/>	Is there any other building construction inconsistent with the residential structure assumptions? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/>	Is the depth to first encountered groundwater, considering seasonal variation, ≤ 10 feet? <i>If yes, shallow groundwater VIAP screening levels may be used or site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/>	Is the depth to first encountered groundwater, considering seasonal variation, > 10 feet? <i>If yes, groundwater not in contact VIAP screening levels may be used or site-specific criteria or SSTLs must be developed.</i>

Nonresidential VIAP Screening Levels (Table 2) are calculated based on restricted nonresidential use of a property. The building input parameters assume a nonresidential structure that has a poured concrete slab-on-grade and has less than 50,000 ft² of continuously open space.

CSM SUPPORTS	PAGE NUMBER	ADDITIONAL INFO NEEDED	NONRESIDENTIAL VIAP SCREENING LEVEL ASSESSMENT
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/>	Is the structure > 50,000 ft ² of continuously open space with no areas < 50,000 ft ² ? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/>	Is there a basement? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/>	Is there a below grade pit, crawlspace (with dirt floor or poured concrete slab), or elevator shaft that extend below grade such that conditions do not meet the assumptions of a slab-on-grade? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/>	Is there a combination of foundation types? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/>	Is the structure a former residential structure that is now a nonresidential use? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/>	Is there any other building construction inconsistent with the nonresidential structure assumptions? <i>If yes, site-specific criteria or SSTLs must be developed.</i>
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/>	Is depth to first encountered groundwater, considering seasonal variation, ≤ 5 feet? <i>If yes, shallow groundwater VIAP screening levels may be used or site-specific criteria or SSTLs must be developed.</i>
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/>	Is depth to first encountered groundwater, considering seasonal variation, > 5 feet? <i>If yes, groundwater not in contact VIAP screening levels may be used or site-specific criteria or SSTLs must be developed.</i>



APPENDIX F

LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100 St
Novi MI 48377

Report Number: 11163
Report Date: July 6, 2020
Project Name: 2000 South Industrial
Project Number: -
Page: 1 of 5

Attn: Mr. Gerry DeBusschere

248-669-5140 Fax: 248-669-5147

Sample Description

Two (2) samples reported to be Soil and identified as "2000 South Industrial", 6/29/20, Grab and:

1. Stockpile 1, 1330
2. Stockpile 2, 1335

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), Methods 8260B and 5035
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		Stockpile 1, 1330, 6/29/20				
Laboratory ID:	11163-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/02/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/02/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/02/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/02/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.8%	-	% Recovery	07/02/20	BD	
Toluene-d8	96.2%	-	% Recovery	07/02/20	BD	
4-Bromofluorobenzene	105%	-	% Recovery	07/02/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Surrogate Standards						
Nitrobenzene-d5	63.5%	-	% Recovery	07/02/20	DS	
2-Fluorobiphenyl	50.9%	-	% Recovery	07/02/20	DS	
Terphenyl-d14	79.1%	-	% Recovery	07/02/20	DS	
Analysis Information						
Dry Weight Solids	92.4%	-	% by weight	06/30/20	LB	
PNA Extraction	Completed	-	-	06/30/20	LP/LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description: Stockpile 2, 1335, 6/29/20						
Laboratory ID:	11163-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/02/20	BD	
Ethylbenzene	172	50	µg/Kg, dry wt.	07/02/20	BD	
Toluene	784	100	µg/Kg, dry wt.	07/02/20	BD	
Xylene (Total)	967	150	µg/Kg, dry wt.	07/02/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.4%	-	% Recovery	07/02/20	BD	
Toluene-d8	95.7%	-	% Recovery	07/02/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/02/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Surrogate Standards						
Nitrobenzene-d5	78.9%	-	% Recovery	07/02/20	DS	
2-Fluorobiphenyl	62.4%	-	% Recovery	07/02/20	DS	
Terphenyl-d14	95.9%	-	% Recovery	07/02/20	DS	
Analysis Information						
Dry Weight Solids	93.3%	-	% by weight	06/30/20	LP	
PNA Extraction	Completed	-	-	06/30/20	LP/LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11163-1		Matrix: Soil		Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
1,1-Dichloroethene	0.0	25	28	26	112	104	7.4	
Benzene	0.0	25	23	22	92	88	4.4	
Trichloroethene	0.0	25	25	25	100	100	0.0	
Toluene	0.0	25	24	24	96	96	0.0	
Chlorobenzene	0.0	25	25	25	100	100	0.0	

PNA Matrix Spike Data

Spiked Sample: 11164-2		Matrix: Soil		Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Acenaphthene	0.0	20	10	9	50	45	10.5	
Phenanthrene	0.0	20	12	11	60	55	8.7	
Fluoranthene	0.0	20	13	12	65	60	8.0	
Pyrene	0.0	20	15	14	75	70	6.9	
Chrysene	0.1	20	13	12	65	60	8.0	

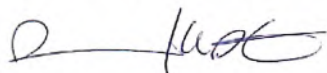
Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council
WBENC
Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road | Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378



Data Qualifiers: S - Internal Standard results outside of acceptance limits
 R - OC spike recovery outside of acceptance limits
 J - Reporting limit is elevated
 D - Result is from a dilution
 M - Matrix interference observed
 F - Matrix Spike four-times rule applied
 C - See Case Narrative

COMPANY	ATC GROUP SERVICES LLC
ADDRESS	46555 HUMBOLDT DR ST#100
CITY, STATE, ZIP	NOVI, MI 48377
TELEPHONE	810-287-1679
FAX	
CONTACT	GERARD DEBUSSCHERE
ADDITIONAL PHONE	
EMAIL ADDRESS	GERARD.DEBUSSCHERE@atcgs.com

REPORT NO. (LAB USE)	11163	Page 1 of 1
P.O. NUMBER		
PROJECT NUMBER		
PROJECT NAME	2000 SOUTH INDUSTRIAL	
SAMPLING LOCATION		
SAMPLES COLLECTED BY	ARW	
TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
SPECIAL INSTRUCTIONS		

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other
** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	ANALYSIS REQUESTED	REMARKS / PRESERVATIVES
1		STOCK PILE 1	4	1330	6/29	G	G	+ +	
2		STOCK PILE 2	4	1335	6/29	S	G	+ +	
3									
4									
5									
6									
7									
8									
9									
10									

BTEK 5035/0260
PNA 8270

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1		6/29/20 1535	
2			
3			

SAMPLE RECEIVED	
<input checked="" type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Report Number: 11163
 Report Date: July 6, 2020
 Project Name: 2000 South Industrial
 Project Number:
 Page: 5 of 5

ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100 St
Novi MI 48377

Report Number: 11164
Report Date: July 6, 2020
Project Name: 2000 South Industrial
Project Number: -
Page: 1 of 10

Attn: Mr. Gerry DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Six (6) samples reported to be Soil (5) and Water (1) and identified as "2000 South Industrial", 6/29/20, Grab and:

1. Tank Bottom, 1115 (Water)
2. P-1, 2.5', 1125 (Soil)
3. P-2, 2.5', 1140 (Soil)
4. P-3, 2.5', 1300 (Soil)
5. DB-1 DSL, 3', 1135 (Soil)
6. DB-2 ULG, 3', 1130 (Soil)

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), Methods 8260B and 5035 (Soil)
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		Tank Bottom, 1115, 6/29/20				
Laboratory ID:	11164-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	07/03/20	BD	
Ethylbenzene	1	1	µg/L	07/03/20	BD	
Toluene	5	1	µg/L	07/03/20	BD	
Xylene (Total)	14	3	µg/L	07/03/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	96.8%	-	% Recovery	07/03/20	BD	
Toluene-d8	92.1%	-	% Recovery	07/03/20	BD	
4-Bromofluorobenzene	109%	-	% Recovery	07/03/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	06/29/20	DS	
Acenaphthylene	Not Detected	5	µg/L	06/29/20	DS	
Anthracene	Not Detected	5	µg/L	06/29/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	06/29/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	06/29/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	06/29/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	06/29/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	06/29/20	DS	
Chrysene	Not Detected	1	µg/L	06/29/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	06/29/20	DS	
Fluoranthene	Not Detected	1	µg/L	06/29/20	DS	
Fluorene	Not Detected	5	µg/L	06/29/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	06/29/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	06/29/20	DS	
Naphthalene	Not Detected	5	µg/L	06/29/20	DS	
Phenanthrene	Not Detected	2	µg/L	06/29/20	DS	
Pyrene	Not Detected	5	µg/L	06/29/20	DS	
Surrogate Standards						
Nitrobenzene-d5	53.6%	-	% Recovery	06/29/20	DS	
2-Fluorobiphenyl	35.6%	-	% Recovery	06/29/20	DS	
Terphenyl-d14	60.2%	-	% Recovery	06/29/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	06/29/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description: P-1, 2.5', 1125, 6/29/20						
Laboratory ID:	11164-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/03/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/03/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/03/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/03/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	92.0%	-	% Recovery	07/03/20	BD	
Toluene-d8	89.7%	-	% Recovery	07/03/20	BD	
4-Bromofluorobenzene	102%	-	% Recovery	07/03/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Surrogate Standards						
Nitrobenzene-d5	70.3%	-	% Recovery	07/02/20	DS	
2-Fluorobiphenyl	54.7%	-	% Recovery	07/02/20	DS	
Terphenyl-d14	83.9%	-	% Recovery	07/02/20	DS	
Analysis Information						
Dry Weight Solids	81.7%	-	% by weight	06/30/20	LP	
PNA Extraction	Completed	-	-	06/30/20	LP/LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description: P-2, 2.5', 1140, 6/29/20						
Laboratory ID:	11164-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/03/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/03/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/03/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/03/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.9%	-	% Recovery	07/03/20	BD	
Toluene-d8	89.1%	-	% Recovery	07/03/20	BD	
4-Bromofluorobenzene	108%	-	% Recovery	07/03/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Surrogate Standards						
Nitrobenzene-d5	75.4%	-	% Recovery	07/02/20	DS	
2-Fluorobiphenyl	62.3%	-	% Recovery	07/02/20	DS	
Terphenyl-d14	91.3%	-	% Recovery	07/02/20	DS	
Analysis Information						
Dry Weight Solids	90.9%	-	% by weight	06/30/20	LP	
PNA Extraction	Completed	-	-	06/30/20	LP/LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description: P-3, 2.5', 1300, 6/29/20						
Laboratory ID:	11164-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/03/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/03/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/03/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/03/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	92.3%	-	% Recovery	07/03/20	BD	
Toluene-d8	91.9%	-	% Recovery	07/03/20	BD	
4-Bromofluorobenzene	102%	-	% Recovery	07/03/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Surrogate Standards						
Nitrobenzene-d5	81.9%	-	% Recovery	07/02/20	DS	
2-Fluorobiphenyl	72.3%	-	% Recovery	07/02/20	DS	
Terphenyl-d14	91.9%	-	% Recovery	07/02/20	DS	
Analysis Information						
Dry Weight Solids	94.7%	-	% by weight	06/30/20	LP	
PNA Extraction	Completed	-	-	06/30/20	LP/LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		DB-1 DSL, 3', 1135, 6/29/20				
Laboratory ID:	11164-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	14,200	5,000	µg/Kg, dry wt.	07/03/20	BD	E, D
Ethylbenzene	247,000	5,000	µg/Kg, dry wt.	07/03/20	BD	E, D
Toluene	566,000	10,000	µg/Kg, dry wt.	07/03/20	BD	E, D
Xylene (Total)	2,440,000	15,000	µg/Kg, dry wt.	07/03/20	BD	E, D
Surrogate Standards						
1,2-Dichloroethane-d4	88.2%	-	% Recovery	07/03/20	BD	
Toluene-d8	93.5%	-	% Recovery	07/03/20	BD	
4-Bromofluorobenzene	113%	-	% Recovery	07/03/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
2-Methylnaphthalene	18,800	330	µg/Kg, dry wt.	07/02/20	DS	
Naphthalene	5,180	330	µg/Kg, dry wt.	07/02/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Surrogate Standards						
Nitrobenzene-d5	54.3%	-	% Recovery	07/02/20	DS	
2-Fluorobiphenyl	50.2%	-	% Recovery	07/02/20	DS	
Terphenyl-d14	93.7%	-	% Recovery	07/02/20	DS	
Analysis Information						
Dry Weight Solids	91.8%	-	% by weight	06/30/20	LP	
PNA Extraction	Completed	-	-	06/30/20	LP/LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description: DB-2 ULG, 3', 1130, 6/29/20						
Laboratory ID:	11164-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	16,400	5,000	µg/Kg, dry wt.	07/03/20	BD	E, D
Ethylbenzene	224,000	5,000	µg/Kg, dry wt.	07/03/20	BD	E, D
Toluene	541,000	10,000	µg/Kg, dry wt.	07/03/20	BD	E, D
Xylene (Total)	1,840,000	15,000	µg/Kg, dry wt.	07/03/20	BD	E, D
Surrogate Standards						
1,2-Dichloroethane-d4	87.1%	-	% Recovery	07/03/20	BD	
Toluene-d8	92.7%	-	% Recovery	07/03/20	BD	
4-Bromofluorobenzene	114%	-	% Recovery	07/03/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
2-Methylnaphthalene	3,150	330	µg/Kg, dry wt.	07/02/20	DS	
Naphthalene	784	330	µg/Kg, dry wt.	07/02/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/02/20	DS	
Surrogate Standards						
Nitrobenzene-d5	53.5%	-	% Recovery	07/02/20	DS	
2-Fluorobiphenyl	46.2%	-	% Recovery	07/02/20	DS	
Terphenyl-d14	84.1%	-	% Recovery	07/02/20	DS	
Analysis Information						
Dry Weight Solids	89.5%	-	% by weight	06/30/20	LP	
PNA Extraction	Completed	-	-	06/30/20	LP/LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11165-1		Matrix: Soil		Units: ppb in extract					
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers	
1,1-Dichloroethene	0.0	25	33	35	132	140	5.9		
Benzene	0.0	25	23	23	92	92	0.0		
Trichloroethene	0.0	25	26	25	104	100	3.9		
Toluene	0.0	25	25	24	100	96	4.1		
Chlorobenzene	0.0	25	27	26	108	104	3.8		

Spiked Sample: 11157 LCS		Matrix: Water		Units: ppb in solution					
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers	
1,1-Dichloroethene	0.0	25	27	27	108	108	0.0		
Benzene	0.0	25	22	21	88	84	4.7		
Trichloroethene	0.0	25	26	24	104	96	8.0		
Toluene	0.0	25	23	23	92	92	0.0		
Chlorobenzene	0.0	25	26	25	104	100	3.9		

PNA Matrix Spike Data

Spiked Sample: 11164-2		Matrix: Soil		Units: ppm in extract					
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers	
Acenaphthene	0.0	20	10	9	50	45	10.5		
Phenanthrene	0.0	20	12	11	60	55	8.7		
Fluoranthene	0.0	20	13	12	65	60	8.0		
Pyrene	0.0	20	15	14	75	70	6.9		
Chrysene	0.1	20	13	12	65	60	8.0		

Spiked Sample: 11158 LCS		Matrix: Water		Units: ppm in extract					
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers	
Acenaphthene	0.0	20	12	13	60	65	8.0		
Phenanthrene	0.0	20	13	14	65	70	7.4		
Fluoranthene	0.0	20	13	14	65	70	7.4		
Pyrene	0.0	20	15	16	75	80	6.5		
Chrysene	0.0	20	13	14	65	70	7.4		

Case Narrative

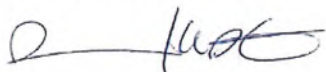
All method protocols and quality control requirements were satisfied for all samples.

Data Qualifiers: I Internal Standard results outside of acceptance limits E Reporting limit is elevated M Matrix interference observed
 S QC spike recovery outside of acceptance limits D Result is from a dilution F Matrix Spike four times rule applied
 R RPD outside of acceptance limits J Result should be considered estimated C See Case Narrative

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager

Data Qualifiers: I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits

E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated

M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council
WBENC
Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road | Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378

Quantum Laboratories, Inc.

Report Number: 11164
 Report Date: July 6, 2020
 Project Name: 2000 South Industrial
 Project Number:
 Page: 10 of 10

Data Qualifiers:
 1 Internal Standard results outside of acceptance limits
 S OC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 Result should be considered estimated
 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

CLIENT INFO	COMPANY	ATC GROUP SERVICES LLC
	ADDRESS	46555 HUMBOLDT DR. ST#100
	CITY, STATE, ZIP	Novi, MI 48377
	TELEPHONE	810-287-1679
	FAX	
	CONTACT	GERARD DEBUSSCHERE
	ADDITIONAL PHONE	
	EMAIL ADDRESS	GERARD.DEBUSSCHERE@atcls.com

PROJECT INFO	REPORT NO. (LAB USE)	11164	Page 1 of 1
	P.O. NUMBER		
	PROJECT NUMBER		
	PROJECT NAME	2000 SOUTH INDUSTRIAL	
	SAMPLING LOCATION		
	SAMPLES COLLECTED BY	ARW	
	TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
	SPECIAL INSTRUCTIONS		

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other
** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE	GRAB / COMP **	ANALYSIS REQUESTED		REMARKS / PRESERVATIVES
								BTEX	PNA	
1		TANK BOTTOM	5	1115	6/29/20	W	G	X	X	
2		P-1 (2.5')	4	1125	↓	S	G	X	X	
3		P-2 (2.5')	4	1140		S	G	X	X	
4		P-3 (2.5')	4	1300		S	G	X	X	
5		DB-1 DSL (3')	4	1135		S	G	X	X	
6		DB-2 VLG (3')	4	1130		S	G	X	X	
7										
8										
9										
10										

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1		6/29/20 3:35 PM	
2			
3			

SAMPLE RECEIVED	
<input checked="" type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100 St
Novi MI 48377

Report Number: 11180
Report Date: July 20, 2020
Project Name: Matzak/Ann Arbor Fuel Farm
Project Number: 188EM20006
Page: 1 of 20

Attn: Mr. Gerry DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Seventeen (17) samples reported to be Soil (16) and Water (1) and identified as "Matzak/Ann Arbor Fuel Farm", Ann Arbor, MI, 7/15/20, Grab and:

- | | |
|-----------------------|---|
| 1. UST SW-1, 8', 1100 | 10. Trip Blank, 1000 |
| 2. UST SW-2, 8', 1105 | 11. Dis SW-1, 4', 1130 |
| 3. UST SW-3, 8', 1107 | 12. Dis SW-2, 4', 1132 |
| 4. UST SW-4, 8', 1111 | 13. Dis SW-3, 4', 1200 |
| 5. UST SW-5, 8', 1115 | 14. Dis SW-4, 4', 1140 |
| 6. UST SW-6, 8', 1117 | 15. F-1, 10', 1207 |
| 7. UST SW-7, 8', 1120 | 16. Dup 2, 1400 |
| 8. UST SW-8, 8', 1122 | 17. Frac Tank (Waste Characterization), 1320 (Water) (HOLD) |
| 9. Dup 1, 1300 | |

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Methods 8260B and 5035 (Samples 1 – 16)
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C (Samples 1-9 and 11-16)

Analytical Results

Sample Description:		UST SW-1, 8', 1100, 7/15/20				
Laboratory ID:	11180-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	114%	-	% Recovery	07/17/20	BD	
Toluene-d8	104%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	48.3%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	53.9%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	65.9%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	90.2%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description: UST SW-2, 8', 1105, 7/15/20						
Laboratory ID:	11180-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	07/17/20	BD	
Toluene-d8	103%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	99.1%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	47.4%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	52.6%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	65.4%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	85.7%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		UST SW-3, 8', 1107, 7/15/20				
Laboratory ID:	11180-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	119%	-	% Recovery	07/17/20	BD	
Toluene-d8	101%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	98.2%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	43.3%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	49.8%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	68.4%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	88.3%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		UST SW-4, 8', 1111, 7/15/20				
Laboratory ID:	11180-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	118%	-	% Recovery	07/17/20	BD	
Toluene-d8	101%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	102%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	40.6%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	49.0%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	61.7%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	86.9%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		UST SW-5, 8', 1115, 7/15/20				
Laboratory ID:	11180-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	117%	-	% Recovery	07/17/20	BD	
Toluene-d8	102%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	99.8%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	42.7%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	48.4%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	63.6%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	83.1%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		UST SW-6, 8', 1117, 7/15/20				
Laboratory ID:	11180-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	115%	-	% Recovery	07/17/20	BD	
Toluene-d8	101%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	100%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	42.1%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	50.1%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	64.3%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	89.9%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		UST SW-7, 8', 1120, 7/15/20				
Laboratory ID:	11180-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	121%	-	% Recovery	07/17/20	BD	
Toluene-d8	102%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	49.8%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	55.1%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	66.9%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	92.4%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		UST SW-8, 8', 1122, 7/15/20				
Laboratory ID:	11180-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	07/17/20	BD	
Toluene-d8	107%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	41.9%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	51.1%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	63.2%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	80.5%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup 1, 1300, 7/15/20				
Laboratory ID:	11180-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	113%	-	% Recovery	07/17/20	BD	
Toluene-d8	104%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	42.9%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	50.7%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	61.0%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	80.1%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Trip Blank, 1000, 7/15/20				
Laboratory ID:	11180-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	115%	-	% Recovery	07/17/20	BD	
Toluene-d8	103%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	99.5%	-	% Recovery	07/17/20	BD	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dis SW-1, 4', 1130, 7/15/20				
Laboratory ID:	11180-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
			□			
1,2-Dichloroethane-d4	119%	-	% Recovery	07/17/20	BD	
Toluene-d8	103%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	48.0%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	54.4%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	66.9%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	92.8%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dis SW-2, 4', 1132, 7/15/20				
Laboratory ID:	11180-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	122%	-	% Recovery	07/17/20	BD	
Toluene-d8	103%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	42.8%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	51.0%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	62.6%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	80.5%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dis SW-3, 4', 1200, 7/15/20				
Laboratory ID:	11180-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
			□			
1,2-Dichloroethane-d4	125%	-	% Recovery	07/17/20	BD	
Toluene-d8	103%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	44.7%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	50.1%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	63.9%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	91.1%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dis SW-4, 4', 1140, 7/15/20				
Laboratory ID:	11180-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	07/17/20	BD	
Toluene-d8	103%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	98.4%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	96.1%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	99.0%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	119%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	85.4%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		F-1, 10', 1207, 7/15/20				
Laboratory ID:	11180-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	118%	-	% Recovery	07/17/20	BD	
Toluene-d8	103%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	92.4%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	99.3%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	122%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	85.9%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup 2, 1400, 7/15/20				
Laboratory ID:	11180-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	07/17/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	07/17/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	07/17/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	07/17/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	07/17/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	118%	-	% Recovery	07/17/20	BD	
Toluene-d8	105%	-	% Recovery	07/17/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/17/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	07/17/20	DS	
Surrogate Standards						
Nitrobenzene-d5	96.2%	-	% Recovery	07/17/20	DS	
2-Fluorobiphenyl	101%	-	% Recovery	07/17/20	DS	
Terphenyl-d14	123%	-	% Recovery	07/17/20	DS	
Analysis Information						
Dry Weight Solids	86.2%	-	% by weight	07/15/20	LB	
PNA Extraction	Completed	-	-	07/16/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11180-1		Matrix: Soil		Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
1,1-Dichloroethene	0.0	25	21	20	84	80	4.9	
Benzene	0.0	25	26	28	104	112	7.4	
Trichloroethene	0.0	25	25	27	100	108	7.7	
Toluene	0.0	25	24	25	96	100	4.1	
Chlorobenzene	0.0	25	23	24	92	96	4.3	

PNA Matrix Spike Data

Spiked Sample: 11180-5		Matrix: Soil		Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Acenaphthene	0.0	20	13	13	65	65	0.0	
Phenanthrene	0.0	20	15	15	75	75	0.0	
Fluoranthene	0.0	20	15	16	75	80	6.5	
Pyrene	0.0	20	16	16	80	80	0.0	
Chrysene	0.1	20	16	16	80	80	0.0	

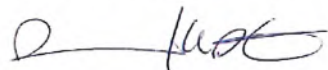
Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
 Analytical Chemistry Manager

ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11188
Report Date: July 27, 2020
Project Name: Matzak/Ann Arbor Fuel Farm
Project Number: 188EM20006
Page: 1 of 7

Attn: Mr. Gerry DeBusschere

248-669-5140 Fax: 248-669-5147

Sample Description

One (1) sample reported to be Water and identified as "Matzak/Ann Arbor Fuel Farm", Ann Arbor, MI, Frac Tank (Waste Characterization), 1320, 7/15/20, Grab (Originally submitted as QLI sample number 11180-17)

Analysis Requested

Chemical Analysis per SW-846 (SW) and EPA 600/4-79-020 (EPA) for:

1. Volatile Organic Compounds (VOC), SW Method 8260B
2. Polynuclear Aromatic Hydrocarbons (PNA), SW Method 8270C
3. Total Suspended Solids (TSS), EPA Method 160.2
4. 10 Michigan Metals
 - a) Arsenic, SW Method 7010
 - b) Barium, SW Method 7010
 - c) Cadmium, SW Method 7010
 - d) Chromium, SW Method 7010
 - e) Copper, SW Method 7010
 - f) Lead, SW Method 7010
 - g) Mercury, SW Method 7470A
 - h) Selenium, SW Method 7010
 - i) Silver, SW Method 7010
 - j) Zinc, SW Method 7010

Analytical Results

Sample Description:	Frac Tank, (Waste Characterization), 1320, 7/15/20					
Laboratory ID:	11188-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	50	µg/L	07/22/20	BD	
Benzene	Not Detected	1	µg/L	07/22/20	BD	
Bromobenzene	Not Detected	1	µg/L	07/22/20	BD	
Bromochloromethane	Not Detected	1	µg/L	07/22/20	BD	
Bromodichloromethane	Not Detected	1	µg/L	07/22/20	BD	
Bromoform	Not Detected	1	µg/L	07/22/20	BD	
Bromomethane	Not Detected	5	µg/L	07/22/20	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	07/22/20	BD	
n-Butylbenzene	Not Detected	1	µg/L	07/22/20	BD	
sec-Butylbenzene	Not Detected	1	µg/L	07/22/20	BD	
tert-Butylbenzene	Not Detected	1	µg/L	07/22/20	BD	
Carbon disulfide	Not Detected	5	µg/L	07/22/20	BD	
Carbon tetrachloride	Not Detected	1	µg/L	07/22/20	BD	
Chlorobenzene	Not Detected	1	µg/L	07/22/20	BD	
Chloroethane	Not Detected	5	µg/L	07/22/20	BD	
Chloroform	Not Detected	1	µg/L	07/22/20	BD	
Chloromethane	Not Detected	5	µg/L	07/22/20	BD	
2-Chlorotoluene	Not Detected	5	µg/L	07/22/20	BD	
4-Chlorotoluene	Not Detected	5	µg/L	07/22/20	BD	
Dibromochloromethane	Not Detected	5	µg/L	07/22/20	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	07/22/20	BD	
Dibromomethane	Not Detected	5	µg/L	07/22/20	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	07/22/20	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	07/22/20	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	07/22/20	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	07/22/20	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	07/22/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	07/22/20	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	07/22/20	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	07/22/20	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	07/22/20	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	07/22/20	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	07/22/20	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	07/22/20	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	07/22/20	BD	
cis-1,3-Dichloropropene	Not Detected	1	µg/L	07/22/20	BD	
continued						

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Frac Tank, (Waste Characterization), 1320, 7/15/20				
Laboratory ID:	11188-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOC's, Cont'd						
Ethylbenzene	Not Detected	1	µg/L	07/22/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	07/22/20	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	07/22/20	BD	
2-Hexanone	Not Detected	50	µg/L	07/22/20	BD	
Isopropyl benzene	Not Detected	5	µg/L	07/22/20	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	07/22/20	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	07/22/20	BD	
Methylene chloride	Not Detected	5	µg/L	07/22/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	07/22/20	BD	
Naphthalene	Not Detected	5	µg/L	07/22/20	BD	
n-Propyl benzene	Not Detected	1	µg/L	07/22/20	BD	
Styrene	Not Detected	1	µg/L	07/22/20	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	07/22/20	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	07/22/20	BD	
Tetrachloroethylene	Not Detected	1	µg/L	07/22/20	BD	
Tetrahydrofuran	Not Detected	90	µg/L	07/22/20	BD	
Toluene	Not Detected	1	µg/L	07/22/20	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	07/22/20	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	07/22/20	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	07/22/20	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	07/22/20	BD	
Trichloroethylene	Not Detected	1	µg/L	07/22/20	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	07/22/20	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	07/22/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	07/22/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	07/22/20	BD	
Vinyl Acetate	Not Detected	100	µg/L	07/22/20	BD	
Vinyl chloride	Not Detected	1	µg/L	07/22/20	BD	
Xylene (Total)	Not Detected	3	µg/L	07/22/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	110%	-	% Recovery	07/22/20	BD	
Toluene-d8	99.2%	-	% Recovery	07/22/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	07/22/20	BD	
continued						

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Frac Tank, (Waste Characterization), 1320, 7/15/20				
Laboratory ID:	11188-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PNAs						
Acenaphthene	Not Detected	5	µg/L	07/24/20	DS	
Acenaphthylene	Not Detected	5	µg/L	07/24/20	DS	
Anthracene	Not Detected	5	µg/L	07/24/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	07/24/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	07/24/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	07/24/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	07/24/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	07/24/20	DS	
Chrysene	Not Detected	1	µg/L	07/24/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	07/24/20	DS	
Fluoranthene	Not Detected	1	µg/L	07/24/20	DS	
Fluorene	Not Detected	5	µg/L	07/24/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	07/24/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	07/24/20	DS	
Naphthalene	Not Detected	5	µg/L	07/24/20	DS	
Phenanthrene	Not Detected	2	µg/L	07/24/20	DS	
Pyrene	Not Detected	5	µg/L	07/24/20	DS	
Surrogate Standards						
Nitrobenzene-d5	59.2%	-	% Recovery	07/24/20	DS	
2-Fluorobiphenyl	57.5%	-	% Recovery	07/24/20	DS	
Terphenyl-d14	71.3%	-	% Recovery	07/24/20	DS	
Michigan Metals						
Arsenic	Not Detected	5	µg/L	07/23/20	DS	
Barium	331	100	µg/L	07/23/20	DS	
Cadmium	Not Detected	1	µg/L	07/23/20	DS	
Chromium	Not Detected	5	µg/L	07/23/20	DS	
Copper	11	4	µg/L	07/23/20	DS	
Lead	Not Detected	3	µg/L	07/23/20	DS	
Mercury	Not Detected	0.2	µg/L	07/24/20	DS	
Selenium	Not Detected	5	µg/L	07/23/20	DS	
Silver	Not Detected	0.2	µg/L	07/23/20	DS	
Zinc	Not Detected	50	µg/L	07/23/20	DS	
General Parameters						
TSS	77	10	mg/L	07/22/20	BD	
Analysis Information						
PNA Extraction	Completed	-	-	07/22/20	LB	
Mercury Digestion	Completed	-	-	07/24/20	LP	
Metals Digestion	Completed	-	-	07/22/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11188 LCS		Matrix: Water		Units: ppb in solution				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
1,1-Dichloroethene	0.0	25	20	21	80	84	4.9	
Benzene	0.0	25	28	24	112	96	15.4	
Trichloroethene	0.0	25	30	29	120	116	3.4	
Toluene	0.0	25	27	25	108	100	7.7	
Chlorobenzene	0.0	25	26	25	104	100	3.9	

PNA Matrix Spike Data

Spiked Sample: 11188 LCS		Matrix: Water		Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Acenaphthene	0.1	20	13	16	65	80	20.7	
Phenanthrene	0.0	20	15	17	75	85	12.5	
Fluoranthene	0.0	20	15	18	75	90	18.2	
Pyrene	0.1	20	15	18	75	90	18.2	
Chrysene	0.0	20	15	18	75	90	18.2	

Metals Matrix Spike Data

Spiked Sample: 11188-1		Matrix: Water		Units: ppb in solution				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Arsenic	0.0	12.5	13.7	13.2	110	106	3.8	
Barium	331	100	479	420	148	89	13.0	
Cadmium	0.0	1.3	1.3	1.3	101	102	1.0	
Chromium	1.4	10	12.2	12.7	108	113	4.0	
Copper	10.9	25	29.8	33.4	76	90	11.4	
Lead	2.2	25	23.4	22.9	85	83	2.2	
Mercury	0.0	5.0	4.7	4.7	94	93	0.2	
Selenium	1.0	25	14.8	14.6	55	54	1.2	
Silver	0.0	5.0	4.0	4.2	80	84	3.9	
Zinc	0.0	500	346	389	69	78	11.7	

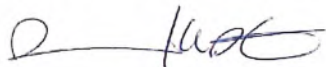
Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council
WBENC
Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road | Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378

Quantum Laboratories, Inc.

COMPANY	ATC Grave Services LLC
ADDRESS	46555 Humboldt Dr. Suite 100
CITY, STATE, ZIP	Nash, MI 48377
TELEPHONE	
FAX	
CONTACT	Gerard DeBusschere
ADDITIONAL PHONE	810-287-1679
EMAIL ADDRESS	gerard.debusschere@atciga.com

REPORT NO. (LAB USE)	11180	Page 2 of 2
P.O. NUMBER		
PROJECT NUMBER	188EM26006	
PROJECT NAME	Matzak/Ann Arbor Fuel Farm	
SAMPLING LOCATION	Ann Arbor, MI	
SAMPLES COLLECTED BY	Ira Adolphus	
TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
SPECIAL INSTRUCTIONS		

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other
** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	ANALYSIS REQUESTED										REMARKS / PRESERVATIVES		
								MI-1116	PNA	PNA	VOC	TSS	10 MI METALS							
1	11	Dis SW-1(4)	2	1130	7/15/20	S	G	✓	✓											
2	12	Dis SW-2(4)		1132																
3	13	Dis SW-3(4)		1200																
4	14	Dis SW-4(4)		1140																
5	15	F-1(16)		1207																
6	16	Dmp 2		1400																
7	17	Frac Tank (waste characterization)	4	1320	7/15/20	W	G													PER G.D. 7-22-20
8																				
9																				
10																				

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	<i>Ira Adolphus</i>	1357 / 7-15-20	<i>Louise Bergquist</i>
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Data Qualifiers: R Internal Standard results outside of acceptance limits
 C CC spike recovery outside of acceptance limits
 PPD outside of acceptance limits
 E Reporting limit is elevated
 J Result is from a dilution
 Result should be considered estimated
 M Matrix interference observed
 Matrix Spike four times rule applied
 C See Case Narrative

Report Number: 11188
 Report Date: July 27, 2020
 Project Name: Matzak/Ann Arbor Fuel Farm
 Project Number: 188EM20006
 Page: 7 of 7

ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11313
Report Date: October 15, 2020
Project Name: Ann Arbor Mun. Fuel Farm
Project Number: 188EM20006
Page: 1 of 16

Attn: Mr. Gerard DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Twelve (12) samples reported to be Soil and identified as "Ann Arbor Municipal Fuel Farm", 2000 S. Industrial Hwy., Ann Arbor, MI, Grab and:

1. MW-1, 6-7', 1004, 10/12/20
2. MW-1, 19-20', 1012, 10/12/20
3. MW-2, 7-8', 1120, 10/12/20
4. MW-2, 24-25', 1132, 10/12/20
5. MW-4, 5-6', 1321, 10/12/20
6. MW-4, 19-20', 1332, 10/12/20
7. MW-5, 7-8', 1507, 10/12/20
8. MW-5, 19-20', 1516, 10/12/20
9. Dup-1, 1321, 10/12/20
10. MW-6, 4-5', 1032, 10/13/20
11. MW-6, 14-15', 1049, 10/13/20
12. Dup-2, 1032, 10/13/20

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Methods 8260B and 5035
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		MW-1, 6-7', 1004, 10/12/20				
Laboratory ID:	11313-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	74	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	275	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	378	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	88.7%	-	% Recovery	10/14/20	BD	
Toluene-d8	102%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	107%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	68.6%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	71.6%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	75.8%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	91.0%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:	MW-1, 19-20', 1012, 10/12/20					
Laboratory ID:	11313-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	91.8%	-	% Recovery	10/14/20	BD	
Toluene-d8	101%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	105%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	50.9%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	52.1%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	66.8%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	76.8%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-2, 7-8', 1120, 10/12/20				
Laboratory ID:	11313-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	91.6%	-	% Recovery	10/14/20	BD	
Toluene-d8	101%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	103%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	48.8%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	55.5%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	79.3%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	83.5%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-2, 24-25', 1132, 10/12/20				
Laboratory ID:	11313-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.8%	-	% Recovery	10/14/20	BD	
Toluene-d8	100%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	55.2%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	61.5%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	76.9%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	82.0%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-4, 5-6', 1321, 10/12/20				
Laboratory ID:	11313-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	90.3%	-	% Recovery	10/14/20	BD	
Toluene-d8	102%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	109%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	57.4%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	60.4%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	71.9%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	82.4%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-4, 19-20', 1332, 10/12/20				
Laboratory ID:	11313-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	90.2%	-	% Recovery	10/14/20	BD	
Toluene-d8	100%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	103%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	59.2%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	60.4%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	80.1%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	80.9%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 7-8', 1507, 10/12/20				
Laboratory ID:	11313-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	87.7%	-	% Recovery	10/14/20	BD	
Toluene-d8	102%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	108%	-	% Recovery	10/14/20	BD	
PNA						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	340	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	450	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	51.3%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	55.0%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	75.3%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	89.2%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 19-20', 1516, 10/12/20				
Laboratory ID:	11313-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	90.6%	-	% Recovery	10/14/20	BD	
Toluene-d8	100%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	53.5%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	54.7%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	69.4%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	82.1%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup-1, 1321, 10/12/20				
Laboratory ID:	11313-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	88.4%	-	% Recovery	10/14/20	BD	
Toluene-d8	103%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	110%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	47.7%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	54.1%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	76.7%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	80.6%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 4-5', 1032, 10/13/20				
Laboratory ID:	11313-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	95.5%	-	% Recovery	10/14/20	BD	
Toluene-d8	100%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	107%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	402	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	414	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	52.8%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	57.5%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	79.8%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	66.0%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 14-15', 1049, 10/13/20				
Laboratory ID:	11313-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	95.8%	-	% Recovery	10/14/20	BD	
Toluene-d8	99.1%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	51.7%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	57.2%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	67.5%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	83.6%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:	Dup-2, 1032, 10/13/20					
Laboratory ID:	11313-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	10/14/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	10/14/20	BD	
Methyl-t-butyl ether	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	10/14/20	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	10/14/20	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	10/14/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	90.9%	-	% Recovery	10/14/20	BD	
Toluene-d8	101%	-	% Recovery	10/14/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/14/20	BD	
PNAs						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Chrysene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Fluorene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Pyrene	Not Detected	330	µg/Kg, dry wt.	10/14/20	DS	
Surrogate Standards						
Nitrobenzene-d5	61.2%	-	% Recovery	10/14/20	DS	
2-Fluorobiphenyl	63.7%	-	% Recovery	10/14/20	DS	
Terphenyl-d14	74.1%	-	% Recovery	10/14/20	DS	
Analysis Information						
Dry Weight Solids	70.1%	-	% by weight	10/13/20	LB	
PNA Extraction	Completed	-	-	10/13/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11313-1		Matrix: Soil		Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
1,1-Dichloroethene	0.0	25	25	21	100	84	17.4	
Benzene	0.0	25	25	24	100	96	4.1	
Trichloroethene	0.0	25	26	28	104	112	7.4	
Toluene	0.0	25	26	25	104	100	3.9	
Chlorobenzene	0.0	25	25	24	100	96	4.1	

PNA Matrix Spike Data

Spiked Sample: 11313-3		Matrix: Soil		Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Acenaphthene	0.0	20	17	19	85	95	11.1	
Phenanthrene	0.0	20	19	20	95	100	5.1	
Fluoranthene	0.1	20	22	23	110	115	4.4	
Pyrene	0.0	20	18	19	90	95	5.4	
Chrysene	0.0	20	20	20	100	100	0.0	

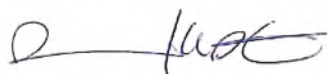
Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council
WBENC
Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road | Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378

Quantum Laboratories, Inc.

Report Number: 11313
 Report Date: October 15, 2020
 Project Name: Ann Arbor Municipal Fuel Farm
 Project Number: 188EM20006
 Page: 15 of 16

Data Qualifiers: 1 Internal Standard results outside of acceptance limits
 S OC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated
 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

COMPANY	ATC Group Services
ADDRESS	46555 Humboldt Dr, #100
CITY, STATE, ZIP	Nor, MI
TELEPHONE	
FAX	
CONTACT	Gerard DeBusschere
ADDITIONAL PHONE	(810) 287-1679
EMAIL ADDRESS	gerard.debusschere@atcgr.com

REPORT NO. (LAB USE)	11313	Page 1 of 2
P.O. NUMBER		
PROJECT NUMBER	188EM20006	
PROJECT NAME	Ann Arbor Municipal Fuel Farm	
SAMPLING LOCATION	2000 S. Industrial Hwy, Ann Arbor, MI	
SAMPLES COLLECTED BY	R. Scott	
TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
SPECIAL INSTRUCTIONS		

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other
** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	ANALYSIS REQUESTED	REMARKS / PRESERVATIVES
1	MW-1	(6-7')	2	1004	10/12/20	S	G		
2	MW-1	(19-20')		1012					
3	MW-2	(7-8')		1120					
4	MW-2	(24-25')		1132					
5	MW-4	(5-6')		1321					
6	MW-4	(19-20')		1332					
7	MW-5	(7-8')		1507					
8	MW-5	(19-20')		1516					
9	DWP-1			1321					
10									

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	<i>[Signature]</i>	10/13/20/1404	<i>[Signature]</i>
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

QUANTUM LABORATORIES, INC.
 28221 Beck Road | Suite A-11
 Wixom, MI 48393
 248-348-TEST or 248-348-8378

Women's Business Enterprise
 National Council
WBENC
 Cert. No. 2005111505



CHAIN OF CUSTODY RECORD

Data Qualifiers:
 I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated
 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

CLIENT INFO	COMPANY	ATC Group Services
	ADDRESS	46555 Humboldt Dr., #100
	CITY, STATE, ZIP	NORF, MI
	TELEPHONE	
	FAX	
	CONTACT	Gerard DeBusschere
	ADDITIONAL PHONE	(810) 287-1679
	EMAIL ADDRESS	gerard.debuschere@atcgs.com

PROJECT INFO	REPORT NO. (LAB USE)	11313	Page 2 of 2
	P.O. NUMBER		
	PROJECT NUMBER	188EM20006	
	PROJECT NAME	Ann Arbor Municipal Fuel Farm	
	SAMPLING LOCATION	2800 S. Industrial Hwy, Ann Arbor	
	SAMPLES COLLECTED BY	R. Scott	
	TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
	SPECIAL INSTRUCTIONS		

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
 U=Unknown or Other
 ** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE	GRAB / COMP	ANALYSIS REQUESTED	REMARKS / PRESERVATIVES
1	10	MW-6 (4-5')	2	1032	10/13/20	S	G	MET WILG INARS	
2	11	MW-6 (14-15')	↓	1049	↓	↓	↓		
3	12	Dwp-2	↓	1032	↓	↓	↓		
4									
5									
6									
7									
8									
9									
10									

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	<i>[Signature]</i>	10/13/20/1404	<i>[Signature]</i>
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11322
Report Date: October 26, 2020
Project Name: Ann Arbor Fuel Farm
Project Number: 188EM20011
Page: 1 of 10

Attn: Mr. Gerard DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Seven (7) samples reported to be Water and identified as "Ann Arbor Fuel Farm", Ann Arbor, MI, 10/19/20, Grab and:

1. MW-1, 1155
2. MW-2, 1242
3. MW-3, 1317
4. MW-4, 1339
5. MW-5, 1405
6. MW-6, 1126
7. Dup-1, 1300

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Method 8260B
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		MW-1, 1155, 10/19/20				
Laboratory ID:	11322-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
1,2-Dichloroethane	Not Detected	25	µg/L	10/22/20	BD	E, D, M
Ethylbenzene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	5	µg/L	10/22/20	BD	E, D, M
Methyl-t-butyl ether	Not Detected	125	µg/L	10/22/20	BD	E, D, M
2-Methylnaphthalene	Not Detected	125	µg/L	10/22/20	BD	E, D, M
Naphthalene	Not Detected	125	µg/L	10/22/20	BD	E, D, M
Toluene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
1,2,4-Trimethylbenzene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
1,3,5-Trimethylbenzene	Not Detected	25	µg/L	10/22/20	BD	E, D, M
Xylene (Total)	Not Detected	75	µg/L	10/22/20	BD	E, D, M
Surrogate Standards						
1,2-Dichloroethane-d4	91.9%	-	% Recovery	10/22/20	BD	
Toluene-d8	105%	-	% Recovery	10/22/20	BD	
4-Bromofluorobenzene	108%	-	% Recovery	10/22/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	65.2%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	63.9%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	74.8%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-2, 1242, 10/19/20				
Laboratory ID:	11322-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/20/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/20/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/20/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/20/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	BD	
Naphthalene	Not Detected	5	µg/L	10/20/20	BD	
Toluene	Not Detected	1	µg/L	10/20/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/20/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	86.8%	-	% Recovery	10/20/20	BD	
Toluene-d8	103%	-	% Recovery	10/20/20	BD	
4-Bromofluorobenzene	107%	-	% Recovery	10/20/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	61.1%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	63.5%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	71.3%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-3, 1317, 10/19/20				
Laboratory ID:	11322-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/21/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/21/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/21/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/21/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/21/20	BD	
Naphthalene	Not Detected	5	µg/L	10/21/20	BD	
Toluene	Not Detected	1	µg/L	10/21/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/21/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	99.6%	-	% Recovery	10/21/20	BD	
Toluene-d8	98.1%	-	% Recovery	10/21/20	BD	
4-Bromofluorobenzene	104%	-	% Recovery	10/21/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	62.6%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	65.7%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	72.7%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-4, 1339, 10/19/20				
Laboratory ID:	11322-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/20/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/20/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/20/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/20/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	BD	
Naphthalene	Not Detected	5	µg/L	10/20/20	BD	
Toluene	Not Detected	1	µg/L	10/20/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/20/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	85.7%	-	% Recovery	10/20/20	BD	
Toluene-d8	104%	-	% Recovery	10/20/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/20/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	60.5%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	62.4%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	72.9%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 1405, 10/19/20				
Laboratory ID:	11322-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/20/20	BD	
1,2-Dichloroethane	2	1	µg/L	10/20/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/20/20	BD	
Methyl-t-butyl ether	13	5	µg/L	10/20/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	BD	
Naphthalene	Not Detected	5	µg/L	10/20/20	BD	
Toluene	Not Detected	1	µg/L	10/20/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/20/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	88.2%	-	% Recovery	10/20/20	BD	
Toluene-d8	101%	-	% Recovery	10/20/20	BD	
4-Bromofluorobenzene	106%	-	% Recovery	10/20/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	62.6%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	67.3%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	73.2%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 1126, 10/19/20				
Laboratory ID:	11322-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/20/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/20/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/20/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/20/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	BD	
Naphthalene	Not Detected	5	µg/L	10/20/20	BD	
Toluene	Not Detected	1	µg/L	10/20/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/20/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/20/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	86.1%	-	% Recovery	10/20/20	BD	
Toluene-d8	104%	-	% Recovery	10/20/20	BD	
4-Bromofluorobenzene	105%	-	% Recovery	10/20/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	67.1%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	64.1%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	73.3%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup-1, 1300, 10/19/20				
Laboratory ID:	11322-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	10/21/20	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	10/21/20	BD	
Ethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	10/21/20	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	10/21/20	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	10/21/20	BD	
Naphthalene	Not Detected	5	µg/L	10/21/20	BD	
Toluene	Not Detected	1	µg/L	10/21/20	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	10/21/20	BD	
Xylene (Total)	Not Detected	3	µg/L	10/21/20	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	109%	-	% Recovery	10/21/20	BD	
Toluene-d8	99.0%	-	% Recovery	10/21/20	BD	
4-Bromofluorobenzene	101%	-	% Recovery	10/21/20	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	10/20/20	DS	
Acenaphthylene	Not Detected	5	µg/L	10/20/20	DS	
Anthracene	Not Detected	5	µg/L	10/20/20	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	10/20/20	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	10/20/20	DS	
Chrysene	Not Detected	1	µg/L	10/20/20	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	10/20/20	DS	
Fluoranthene	Not Detected	1	µg/L	10/20/20	DS	
Fluorene	Not Detected	5	µg/L	10/20/20	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	10/20/20	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	10/20/20	DS	
Naphthalene	Not Detected	5	µg/L	10/20/20	DS	
Phenanthrene	Not Detected	2	µg/L	10/20/20	DS	
Pyrene	Not Detected	5	µg/L	10/20/20	DS	
Surrogate Standards						
Nitrobenzene-d5	54.6%	-	% Recovery	10/20/20	DS	
2-Fluorobiphenyl	60.3%	-	% Recovery	10/20/20	DS	
Terphenyl-d14	65.0%	-	% Recovery	10/20/20	DS	
Analysis Information						
PNA Extraction	Completed	-	-	10/20/20	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11322 LCS		Matrix: Water		Units: ppb in solution					
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers	
1,1-Dichloroethene	0.0	25	31	32	124	128	3.2		
Benzene	0.0	25	29	27	116	108	7.1		
Trichloroethene	0.0	25	30	29	120	116	3.4		
Toluene	0.0	25	28	28	112	112	0.0		
Chlorobenzene	0.0	25	29	27	116	108	7.1		

PNA Matrix Spike Data

Spiked Sample: 11322 LCS		Matrix: Water		Units: ppm in extract					
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers	
Acenaphthene	0.0	20	12	13	60	65	8.0		
Phenanthrene	0.0	20	13	14	65	70	7.4		
Fluoranthene	0.0	20	14	15	70	75	6.9		
Pyrene	0.0	20	12	13	60	65	8.0		
Chrysene	0.0	20	13	14	65	70	7.4		

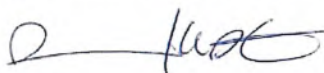
Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council
WBENC
Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
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Wixom, MI 48393
248-348-TEST or 248-348-8378

CLIENT INFO	COMPANY	ATC Group Services LLC
	ADDRESS	46555 Humboldt Drive, Suite 100
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	FAX	
	CONTACT	Gerard DeBusschere
	ADDITIONAL PHONE	248.863.2563
EMAIL ADDRESS	gerard.debusschere@atcgs.com	

PROJECT INFO	REPORT NO. (LAB USE)	11322	Page	of
	P.O. NUMBER			
	PROJECT NUMBER	188EM20006		
	PROJECT NAME	Matzak/Ann Arbor Fuel Farm		
	SAMPLING LOCATION	Ann Arbor, MI		
	SAMPLES COLLECTED BY	Ira Adolphus		
	TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:		
SPECIAL INSTRUCTIONS				

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other
** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	ANALYSIS REQUESTED	REMARKS / PRESERVATIVES
1		Mw-1	3	1155	10/19/20	W	G	MI-446 PVA	
2		Mw-2		1212					
3		Mw-3		1317					
4		Mw-4		1339					
5		Mw-5		1405					
6		Mw-6		1126					
7		Dye 1		1300					
8									
9									
10									

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	<i>[Signature]</i>	1640 / 10-19-20	<i>[Signature]</i>
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated
 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Report Number: 11322
 Report Date: October 26, 2020
 Project Name: Ann Arbor Fuel Farm
 Project Number: 188EM20011
 Page: 10 of 10



ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11492
Report Date: January 18, 2021
Project Name: Ann Arbor Fuel Farm
Project Number: 188EM20011
Page: 1 of 10

Attn: Mr. Gerry DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Seven (7) samples reported to be Water and identified as "Ann Arbor Fuel Farm", Ann Arbor, MI, 1/11/21, Grab and:

1. MW-1, 1215
2. MW-2, 1238
3. MW-3, 1259
4. MW-4, 1320
5. MW-5, 1341
6. MW-6, 1153
7. Dup-1

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Method 8260B
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		MW-1, 1215, 1/11/21				
Laboratory ID:	11492-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	95.9%	-	% Recovery	01/13/21	BD	
Toluene-d8	98.7%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	91.1%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	73.2%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	60.6%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	82.5%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-2, 1238, 1/11/21				
Laboratory ID:	11492-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	84.3%	-	% Recovery	01/13/21	BD	
Toluene-d8	97.4%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	93.2%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	74.7%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	71.2%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	83.9%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-3, 1259, 1/11/21				
Laboratory ID:	11492-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	101%	-	% Recovery	01/13/21	BD	
Toluene-d8	100%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	92.5%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	68.5%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	54.5%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	66.6%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-4, 1320, 1/11/21				
Laboratory ID:	11492-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	96.3%	-	% Recovery	01/13/21	BD	
Toluene-d8	100%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	91.4%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	53.4%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	47.7%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	66.5%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Sample Description:		MW-5, 1341, 1/11/21				
Laboratory ID:	11492-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	87.1%	-	% Recovery	01/13/21	BD	
Toluene-d8	97.1%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	88.3%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	72.8%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	62.1%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	78.6%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 1153, 1/11/21				
Laboratory ID:	11492-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.9%	-	% Recovery	01/13/21	BD	
Toluene-d8	100%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	93.1%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	71.1%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	58.7%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	72.3%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup-1, 1/11/21				
Laboratory ID:	11492-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	01/13/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	01/13/21	BD	
Ethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	01/13/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	01/13/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	01/13/21	BD	
Naphthalene	Not Detected	5	µg/L	01/13/21	BD	
Toluene	Not Detected	1	µg/L	01/13/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	01/13/21	BD	
Xylene (Total)	Not Detected	3	µg/L	01/13/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	82.9%	-	% Recovery	01/13/21	BD	
Toluene-d8	97.1%	-	% Recovery	01/13/21	BD	
4-Bromofluorobenzene	90.6%	-	% Recovery	01/13/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	01/14/21	DS	
Acenaphthylene	Not Detected	5	µg/L	01/14/21	DS	
Anthracene	Not Detected	5	µg/L	01/14/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	01/14/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	01/14/21	DS	
Chrysene	Not Detected	1	µg/L	01/14/21	DS	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	01/14/21	DS	
Fluoranthene	Not Detected	1	µg/L	01/14/21	DS	
Fluorene	Not Detected	5	µg/L	01/14/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	01/14/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	01/14/21	DS	
Naphthalene	Not Detected	5	µg/L	01/14/21	DS	
Phenanthrene	Not Detected	2	µg/L	01/14/21	DS	
Pyrene	Not Detected	5	µg/L	01/14/21	DS	
Surrogate Standards						
Nitrobenzene-d5	59.1%	-	% Recovery	01/14/21	DS	
2-Fluorobiphenyl	58.4%	-	% Recovery	01/14/21	DS	
Terphenyl-d14	75.1%	-	% Recovery	01/14/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	01/13/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11489 LCS		Matrix: Water		Units: ppb in solution				RPD	Data Qualifiers
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.			
1,1-Dichloroethene	0.0	25	22	25	88	100	12.8		
Benzene	0.0	25	25	26	100	104	3.9		
Trichloroethene	0.0	25	26	26	104	104	0.0		
Toluene	0.0	25	28	26	112	104	7.4		
Chlorobenzene	0.0	25	25	24	100	96	4.1		

PNA Matrix Spike Data

Spiked Sample: 11492 LCS		Matrix: Water		Units: ppm in extract				RPD	Data Qualifiers
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.			
Acenaphthene	0.0	20	13	13	65	65	0.0		
Phenanthrene	0.0	20	13	13	65	65	0.0		
Fluoranthene	0.0	20	13	13	65	65	0.0		
Pyrene	0.0	20	14	14	70	70	0.0		
Chrysene	0.1	20	14	14	70	70	0.0		

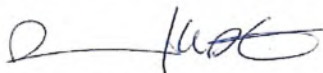
Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council
WBENC
Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road | Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378

Quantum Laboratories, Inc.

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated
 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

COMPANY	ATC Group Services LLC
ADDRESS	46555 Humbolt Dr. Suite 100
CITY, STATE, ZIP	Novi, MI 48377
TELEPHONE	810-287-1679
FAX	
CONTACT	Gerard DeBusschere
ADDITIONAL PHONE	248-863-2563
EMAIL ADDRESS	gerard.debuschere@atcgs.com

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other

** GRAB/COMP: G=Grab Sample, C=Composite Sample

REPORT NO. (LAB USE)	11492	Page 1 of 1
P.O. NUMBER		
PROJECT NUMBER	188EM20011	
PROJECT NAME	Ann Arbor Fuel Farm	
SAMPLING LOCATION	Ann Arbor, MI	
SAMPLES COLLECTED BY	Spencer Overbeck	
TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
SPECIAL INSTRUCTIONS		

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE	GRAB / COMP	ANALYSIS REQUESTED	REMARKS / PRESERVATIVES
1		MW-1	3	1215	01/11/21	W	G	X X	2 90ml HCl VOAs & 1 500ml Amber
2		MW-2	3	1238					
3		MW-3	3	1248 ⁵⁹					
4		MW-4	3	1308 ²⁰					
5		MW-5	3	1341					
6		MW-6	3	1153					
7		DUP-1	3	0000					Taken @ MW-6
8									
9									
10									

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
1	<i>Spencer Overbeck</i>	3:00 01/11/21	<i>Lori [Signature]</i>
2			
3			

SAMPLE RECEIVED	
<input type="checkbox"/> Wet Ice	
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Report Number: 11492
 Report Date: January 18, 2021
 Project Name: Ann Arbor Fuel Farm
 Project Number: 188EM20011
 Page: 10 of 10



ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11626
Report Date: April 12, 2021
Project Name: Ann Arbor Fuel Farm
Project Number: 188EM20011
Page: 1 of 10

Attn: Mr. Gerard DeBusschere

248-669-5140 Fax: 248-669-5147

Sample Description

Seven (7) samples reported to be Water and identified as "Ann Arbor Fuel Farm", Ann Arbor, MI, 4/6/21, Grab and:

1. MW-1, 1119
2. MW-2, 1142
3. MW-3, 1204
4. MW-4, 1227
5. MW-5, 1250
6. Mw-6, 1057
7. Dup-1, 0000

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Method 8260B
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		MW-1, 1119, 4/6/21				
Laboratory ID:	11626-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	04/07/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	04/07/21	BD	
Ethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	04/07/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	04/07/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	04/07/21	BD	
Naphthalene	Not Detected	5	µg/L	04/07/21	BD	
Toluene	3	1	µg/L	04/07/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Xylene (Total)	Not Detected	3	µg/L	04/07/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	104%	-	% Recovery	04/07/21	BD	
Toluene-d8	98.7%	-	% Recovery	04/07/21	BD	
4-Bromofluorobenzene	95.6%	-	% Recovery	04/07/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	04/08/21	DS	
Acenaphthylene	Not Detected	5	µg/L	04/08/21	DS	
Anthracene	Not Detected	5	µg/L	04/08/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	04/08/21	DS	
Chrysene	Not Detected	1	µg/L	04/08/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	04/08/21	DS	
Fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Fluorene	Not Detected	5	µg/L	04/08/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	04/08/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	04/08/21	DS	
Naphthalene	Not Detected	5	µg/L	04/08/21	DS	
Phenanthrene	Not Detected	2	µg/L	04/08/21	DS	
Pyrene	Not Detected	5	µg/L	04/08/21	DS	
Surrogate Standards						
Nitrobenzene-d5	77.7%	-	% Recovery	04/08/21	DS	
2-Fluorobiphenyl	83.4%	-	% Recovery	04/08/21	DS	
Terphenyl-d14	91.6%	-	% Recovery	04/08/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	04/07/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-2, 1142, 4/6/21				
Laboratory ID:	11626-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	04/07/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	04/07/21	BD	
Ethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	04/07/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	04/07/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	04/07/21	BD	
Naphthalene	Not Detected	5	µg/L	04/07/21	BD	
Toluene	Not Detected	1	µg/L	04/07/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Xylene (Total)	Not Detected	3	µg/L	04/07/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	105%	-	% Recovery	04/07/21	BD	
Toluene-d8	94.0%	-	% Recovery	04/07/21	BD	
4-Bromofluorobenzene	92.9%	-	% Recovery	04/07/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	04/08/21	DS	
Acenaphthylene	Not Detected	5	µg/L	04/08/21	DS	
Anthracene	Not Detected	5	µg/L	04/08/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	04/08/21	DS	
Chrysene	Not Detected	1	µg/L	04/08/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	04/08/21	DS	
Fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Fluorene	Not Detected	5	µg/L	04/08/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	04/08/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	04/08/21	DS	
Naphthalene	Not Detected	5	µg/L	04/08/21	DS	
Phenanthrene	Not Detected	2	µg/L	04/08/21	DS	
Pyrene	Not Detected	5	µg/L	04/08/21	DS	
Surrogate Standards						
Nitrobenzene-d5	69.6%	-	% Recovery	04/08/21	DS	
2-Fluorobiphenyl	73.8%	-	% Recovery	04/08/21	DS	
Terphenyl-d14	84.1%	-	% Recovery	04/08/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	04/07/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-3, 1204, 4/6/21				
Laboratory ID:	11626-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	04/07/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	04/07/21	BD	
Ethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	04/07/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	04/07/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	04/07/21	BD	
Naphthalene	Not Detected	5	µg/L	04/07/21	BD	
Toluene	Not Detected	1	µg/L	04/07/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Xylene (Total)	Not Detected	3	µg/L	04/07/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	108%	-	% Recovery	04/07/21	BD	
Toluene-d8	99.2%	-	% Recovery	04/07/21	BD	
4-Bromofluorobenzene	93.7%	-	% Recovery	04/07/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	04/08/21	DS	
Acenaphthylene	Not Detected	5	µg/L	04/08/21	DS	
Anthracene	Not Detected	5	µg/L	04/08/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	04/08/21	DS	
Chrysene	Not Detected	1	µg/L	04/08/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	04/08/21	DS	
Fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Fluorene	Not Detected	5	µg/L	04/08/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	04/08/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	04/08/21	DS	
Naphthalene	Not Detected	5	µg/L	04/08/21	DS	
Phenanthrene	Not Detected	2	µg/L	04/08/21	DS	
Pyrene	Not Detected	5	µg/L	04/08/21	DS	
Surrogate Standards						
Nitrobenzene-d5	66.3%	-	% Recovery	04/08/21	DS	
2-Fluorobiphenyl	73.4%	-	% Recovery	04/08/21	DS	
Terphenyl-d14	88.5%	-	% Recovery	04/08/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	04/07/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
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 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-4, 1227, 4/6/21				
Laboratory ID:	11626-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	04/07/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	04/07/21	BD	
Ethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	04/07/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	04/07/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	04/07/21	BD	
Naphthalene	Not Detected	5	µg/L	04/07/21	BD	
Toluene	Not Detected	1	µg/L	04/07/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Xylene (Total)	Not Detected	3	µg/L	04/07/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	101%	-	% Recovery	04/07/21	BD	
Toluene-d8	99.5%	-	% Recovery	04/07/21	BD	
4-Bromofluorobenzene	91.4%	-	% Recovery	04/07/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	04/08/21	DS	
Acenaphthylene	Not Detected	5	µg/L	04/08/21	DS	
Anthracene	Not Detected	5	µg/L	04/08/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	04/08/21	DS	
Chrysene	Not Detected	1	µg/L	04/08/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	04/08/21	DS	
Fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Fluorene	Not Detected	5	µg/L	04/08/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	04/08/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	04/08/21	DS	
Naphthalene	Not Detected	5	µg/L	04/08/21	DS	
Phenanthrene	Not Detected	2	µg/L	04/08/21	DS	
Pyrene	Not Detected	5	µg/L	04/08/21	DS	
Surrogate Standards						
Nitrobenzene-d5	56.7%	-	% Recovery	04/08/21	DS	
2-Fluorobiphenyl	57.6%	-	% Recovery	04/08/21	DS	
Terphenyl-d14	72.6%	-	% Recovery	04/08/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	04/07/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
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M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 1250, 4/6/21				
Laboratory ID:	11626-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	04/07/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	04/07/21	BD	
Ethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	04/07/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	04/07/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	04/07/21	BD	
Naphthalene	Not Detected	5	µg/L	04/07/21	BD	
Toluene	Not Detected	1	µg/L	04/07/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Xylene (Total)	Not Detected	3	µg/L	04/07/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	107%	-	% Recovery	04/07/21	BD	
Toluene-d8	100%	-	% Recovery	04/07/21	BD	
4-Bromofluorobenzene	90.9%	-	% Recovery	04/07/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	04/08/21	DS	
Acenaphthylene	Not Detected	5	µg/L	04/08/21	DS	
Anthracene	Not Detected	5	µg/L	04/08/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	04/08/21	DS	
Chrysene	Not Detected	1	µg/L	04/08/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	04/08/21	DS	
Fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Fluorene	Not Detected	5	µg/L	04/08/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	04/08/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	04/08/21	DS	
Naphthalene	Not Detected	5	µg/L	04/08/21	DS	
Phenanthrene	Not Detected	2	µg/L	04/08/21	DS	
Pyrene	Not Detected	5	µg/L	04/08/21	DS	
Surrogate Standards						
Nitrobenzene-d5	63.7%	-	% Recovery	04/08/21	DS	
2-Fluorobiphenyl	65.1%	-	% Recovery	04/08/21	DS	
Terphenyl-d14	79.8%	-	% Recovery	04/08/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	04/07/21	LB	

 Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

 M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 1057, 4/6/21				
Laboratory ID:	11626-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	04/07/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	04/07/21	BD	
Ethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	04/07/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	04/07/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	04/07/21	BD	
Naphthalene	Not Detected	5	µg/L	04/07/21	BD	
Toluene	Not Detected	1	µg/L	04/07/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Xylene (Total)	Not Detected	3	µg/L	04/07/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	107%	-	% Recovery	04/07/21	BD	
Toluene-d8	100%	-	% Recovery	04/07/21	BD	
4-Bromofluorobenzene	95.0%	-	% Recovery	04/07/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	04/08/21	DS	
Acenaphthylene	Not Detected	5	µg/L	04/08/21	DS	
Anthracene	Not Detected	5	µg/L	04/08/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	04/08/21	DS	
Chrysene	Not Detected	1	µg/L	04/08/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	04/08/21	DS	
Fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Fluorene	Not Detected	5	µg/L	04/08/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	04/08/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	04/08/21	DS	
Naphthalene	Not Detected	5	µg/L	04/08/21	DS	
Phenanthrene	Not Detected	2	µg/L	04/08/21	DS	
Pyrene	Not Detected	5	µg/L	04/08/21	DS	
Surrogate Standards						
Nitrobenzene-d5	67.6%	-	% Recovery	04/08/21	DS	
2-Fluorobiphenyl	70.9%	-	% Recovery	04/08/21	DS	
Terphenyl-d14	86.4%	-	% Recovery	04/08/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	04/07/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup-1, 0000, 4/6/21				
Laboratory ID:	11626-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	04/07/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	04/07/21	BD	
Ethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	04/07/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	04/07/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	04/07/21	BD	
Naphthalene	Not Detected	5	µg/L	04/07/21	BD	
Toluene	Not Detected	1	µg/L	04/07/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	04/07/21	BD	
Xylene (Total)	Not Detected	3	µg/L	04/07/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	107%	-	% Recovery	04/07/21	BD	
Toluene-d8	99.9%	-	% Recovery	04/07/21	BD	
4-Bromofluorobenzene	95.0%	-	% Recovery	04/07/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	04/08/21	DS	
Acenaphthylene	Not Detected	5	µg/L	04/08/21	DS	
Anthracene	Not Detected	5	µg/L	04/08/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	04/08/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	04/08/21	DS	
Chrysene	Not Detected	1	µg/L	04/08/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	04/08/21	DS	
Fluoranthene	Not Detected	1	µg/L	04/08/21	DS	
Fluorene	Not Detected	5	µg/L	04/08/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	04/08/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	04/08/21	DS	
Naphthalene	Not Detected	5	µg/L	04/08/21	DS	
Phenanthrene	Not Detected	2	µg/L	04/08/21	DS	
Pyrene	Not Detected	5	µg/L	04/08/21	DS	
Surrogate Standards						
Nitrobenzene-d5	73.9%	-	% Recovery	04/08/21	DS	
2-Fluorobiphenyl	78.6%	-	% Recovery	04/08/21	DS	
Terphenyl-d14	89.0%	-	% Recovery	04/08/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	04/07/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11614 LCS		Matrix: Water		Units: ppb in solution				Data
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	31	29	124	116	6.7	
Benzene	0.0	25	23	21	92	84	9.1	
Trichloroethene	0.0	25	25	23	100	92	8.3	
Toluene	0.0	25	25	23	100	92	8.3	
Chlorobenzene	0.0	25	22	21	88	84	4.7	

PNA Matrix Spike Data

Spiked Sample: 11626 LCS		Matrix: Water		Units: ppm in extract				Data
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Qualifiers
Acenaphthene	0.0	20	13	14	65	70	7.4	
Phenanthrene	0.0	20	15	16	75	80	6.5	
Fluoranthene	0.0	20	15	16	75	80	6.5	
Pyrene	0.0	20	16	17	80	85	6.1	
Chrysene	0.0	20	16	17	80	85	6.1	

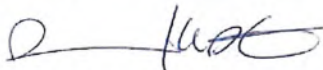
Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

ANALYTICAL REPORT

For: ATC Group Services
46555 Humboldt Dr. Ste. 100
Novi MI 48377

Report Number: 11734
Report Date: June 14, 2021
Project Name: Ann Arbor Fuel Farm
Project Number: 188EM20011
Page: 1 of 10

Attn: Mr. Gerry DeBusschere

248-669-5140

Fax: 248-669-5147

Sample Description

Seven (7) samples reported to be Water and identified as "Ann Arbor Fuel Farm", Ann Arbor, MI, 6/9/21, Grab and:

1. MW-1, 0940
2. MW-2, 1003
3. MW-3, 1026
4. MW-4, 1049
5. MW-5, 1112
6. MW-6, 0917
7. Dup-1, 0000

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. EGLE Gasoline Parameters, Method 8260B
2. Polynuclear Aromatic Hydrocarbons (PNA), Method 8270C

Analytical Results

Sample Description:		MW-1, 0940, 6/9/21				
Laboratory ID:	11734-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	06/10/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	06/10/21	BD	
Ethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	06/10/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	06/10/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	06/10/21	BD	
Naphthalene	Not Detected	5	µg/L	06/10/21	BD	
Toluene	5	1	µg/L	06/10/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Xylene (Total)	5	3	µg/L	06/10/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	105%	-	% Recovery	06/10/21	BD	
Toluene-d8	96.0%	-	% Recovery	06/10/21	BD	
4-Bromofluorobenzene	88.8%	-	% Recovery	06/10/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	06/11/21	DS	
Acenaphthylene	Not Detected	5	µg/L	06/11/21	DS	
Anthracene	Not Detected	5	µg/L	06/11/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	06/11/21	DS	
Chrysene	Not Detected	1	µg/L	06/11/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	06/11/21	DS	
Fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Fluorene	Not Detected	5	µg/L	06/11/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	06/11/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	06/11/21	DS	
Naphthalene	Not Detected	5	µg/L	06/11/21	DS	
Phenanthrene	Not Detected	2	µg/L	06/11/21	DS	
Pyrene	Not Detected	5	µg/L	06/11/21	DS	
Surrogate Standards						
Nitrobenzene-d5	51.5%	-	% Recovery	06/11/21	DS	
2-Fluorobiphenyl	50.4%	-	% Recovery	06/11/21	DS	
Terphenyl-d14	54.6%	-	% Recovery	06/11/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	06/10/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-2, 1003, 6/9/21				
Laboratory ID:	11734-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	06/10/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	06/10/21	BD	
Ethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	06/10/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	06/10/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	06/10/21	BD	
Naphthalene	Not Detected	5	µg/L	06/10/21	BD	
Toluene	Not Detected	1	µg/L	06/10/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Xylene (Total)	Not Detected	3	µg/L	06/10/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	109%	-	% Recovery	06/10/21	BD	
Toluene-d8	97.0%	-	% Recovery	06/10/21	BD	
4-Bromofluorobenzene	91.8%	-	% Recovery	06/10/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	06/11/21	DS	
Acenaphthylene	Not Detected	5	µg/L	06/11/21	DS	
Anthracene	Not Detected	5	µg/L	06/11/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	06/11/21	DS	
Chrysene	Not Detected	1	µg/L	06/11/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	06/11/21	DS	
Fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Fluorene	Not Detected	5	µg/L	06/11/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	06/11/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	06/11/21	DS	
Naphthalene	Not Detected	5	µg/L	06/11/21	DS	
Phenanthrene	Not Detected	2	µg/L	06/11/21	DS	
Pyrene	Not Detected	5	µg/L	06/11/21	DS	
Surrogate Standards						
Nitrobenzene-d5	61.3%	-	% Recovery	06/11/21	DS	
2-Fluorobiphenyl	62.0%	-	% Recovery	06/11/21	DS	
Terphenyl-d14	62.1%	-	% Recovery	06/11/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	06/10/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-3, 1026, 6/9/21				
Laboratory ID:	11734-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	06/10/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	06/10/21	BD	
Ethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	06/10/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	06/10/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	06/10/21	BD	
Naphthalene	Not Detected	5	µg/L	06/10/21	BD	
Toluene	Not Detected	1	µg/L	06/10/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Xylene (Total)	Not Detected	3	µg/L	06/10/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	103%	-	% Recovery	06/10/21	BD	
Toluene-d8	91.9%	-	% Recovery	06/10/21	BD	
4-Bromofluorobenzene	88.8%	-	% Recovery	06/10/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	06/11/21	DS	
Acenaphthylene	Not Detected	5	µg/L	06/11/21	DS	
Anthracene	Not Detected	5	µg/L	06/11/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	06/11/21	DS	
Chrysene	Not Detected	1	µg/L	06/11/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	06/11/21	DS	
Fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Fluorene	Not Detected	5	µg/L	06/11/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	06/11/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	06/11/21	DS	
Naphthalene	Not Detected	5	µg/L	06/11/21	DS	
Phenanthrene	Not Detected	2	µg/L	06/11/21	DS	
Pyrene	Not Detected	5	µg/L	06/11/21	DS	
Surrogate Standards						
Nitrobenzene-d5	55.9%	-	% Recovery	06/11/21	DS	
2-Fluorobiphenyl	58.3%	-	% Recovery	06/11/21	DS	
Terphenyl-d14	62.7%	-	% Recovery	06/11/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	06/10/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-4, 1049, 6/9/21				
Laboratory ID:	11734-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	06/10/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	06/10/21	BD	
Ethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	06/10/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	06/10/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	06/10/21	BD	
Naphthalene	Not Detected	5	µg/L	06/10/21	BD	
Toluene	Not Detected	1	µg/L	06/10/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Xylene (Total)	Not Detected	3	µg/L	06/10/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	97.5%	-	% Recovery	06/10/21	BD	
Toluene-d8	92.7%	-	% Recovery	06/10/21	BD	
4-Bromofluorobenzene	85.8%	-	% Recovery	06/10/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	06/11/21	DS	
Acenaphthylene	Not Detected	5	µg/L	06/11/21	DS	
Anthracene	Not Detected	5	µg/L	06/11/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	06/11/21	DS	
Chrysene	Not Detected	1	µg/L	06/11/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	06/11/21	DS	
Fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Fluorene	Not Detected	5	µg/L	06/11/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	06/11/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	06/11/21	DS	
Naphthalene	Not Detected	5	µg/L	06/11/21	DS	
Phenanthrene	Not Detected	2	µg/L	06/11/21	DS	
Pyrene	Not Detected	5	µg/L	06/11/21	DS	
Surrogate Standards						
Nitrobenzene-d5	56.1%	-	% Recovery	06/11/21	DS	
2-Fluorobiphenyl	58.7%	-	% Recovery	06/11/21	DS	
Terphenyl-d14	62.7%	-	% Recovery	06/11/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	06/10/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-5, 1112, 6/9/21				
Laboratory ID:	11734-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	06/10/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	06/10/21	BD	
Ethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	06/10/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	06/10/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	06/10/21	BD	
Naphthalene	Not Detected	5	µg/L	06/10/21	BD	
Toluene	Not Detected	1	µg/L	06/10/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Xylene (Total)	Not Detected	3	µg/L	06/10/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	112%	-	% Recovery	06/10/21	BD	
Toluene-d8	93.9%	-	% Recovery	06/10/21	BD	
4-Bromofluorobenzene	87.0%	-	% Recovery	06/10/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	06/11/21	DS	
Acenaphthylene	Not Detected	5	µg/L	06/11/21	DS	
Anthracene	Not Detected	5	µg/L	06/11/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	06/11/21	DS	
Chrysene	Not Detected	1	µg/L	06/11/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	06/11/21	DS	
Fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Fluorene	Not Detected	5	µg/L	06/11/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	06/11/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	06/11/21	DS	
Naphthalene	Not Detected	5	µg/L	06/11/21	DS	
Phenanthrene	Not Detected	2	µg/L	06/11/21	DS	
Pyrene	Not Detected	5	µg/L	06/11/21	DS	
Surrogate Standards						
Nitrobenzene-d5	52.3%	-	% Recovery	06/11/21	DS	
2-Fluorobiphenyl	52.6%	-	% Recovery	06/11/21	DS	
Terphenyl-d14	57.0%	-	% Recovery	06/11/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	06/10/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		MW-6, 0917, 6/9/21				
Laboratory ID:	11734-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	06/10/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	06/10/21	BD	
Ethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	06/10/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	06/10/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	06/10/21	BD	
Naphthalene	Not Detected	5	µg/L	06/10/21	BD	
Toluene	Not Detected	1	µg/L	06/10/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Xylene (Total)	Not Detected	3	µg/L	06/10/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	104%	-	% Recovery	06/10/21	BD	
Toluene-d8	96.9%	-	% Recovery	06/10/21	BD	
4-Bromofluorobenzene	89.6%	-	% Recovery	06/10/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	06/11/21	DS	
Acenaphthylene	Not Detected	5	µg/L	06/11/21	DS	
Anthracene	Not Detected	5	µg/L	06/11/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	06/11/21	DS	
Chrysene	Not Detected	1	µg/L	06/11/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	06/11/21	DS	
Fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Fluorene	Not Detected	5	µg/L	06/11/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	06/11/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	06/11/21	DS	
Naphthalene	Not Detected	5	µg/L	06/11/21	DS	
Phenanthrene	Not Detected	2	µg/L	06/11/21	DS	
Pyrene	Not Detected	5	µg/L	06/11/21	DS	
Surrogate Standards						
Nitrobenzene-d5	58.7%	-	% Recovery	06/11/21	DS	
2-Fluorobiphenyl	59.9%	-	% Recovery	06/11/21	DS	
Terphenyl-d14	62.8%	-	% Recovery	06/11/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	06/10/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Sample Description:		Dup-1, 0000, 6/9/21				
Laboratory ID:	11734-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs						
Benzene	Not Detected	1	µg/L	06/10/21	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	06/10/21	BD	
Ethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	06/10/21	BD	
Methyl-t-butyl ether	Not Detected	5	µg/L	06/10/21	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	06/10/21	BD	
Naphthalene	Not Detected	5	µg/L	06/10/21	BD	
Toluene	Not Detected	1	µg/L	06/10/21	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	06/10/21	BD	
Xylene (Total)	Not Detected	3	µg/L	06/10/21	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	116%	-	% Recovery	06/10/21	BD	
Toluene-d8	96.3%	-	% Recovery	06/10/21	BD	
4-Bromofluorobenzene	90.6%	-	% Recovery	06/10/21	BD	
PNAs						
Acenaphthene	Not Detected	5	µg/L	06/11/21	DS	
Acenaphthylene	Not Detected	5	µg/L	06/11/21	DS	
Anthracene	Not Detected	5	µg/L	06/11/21	DS	
Benzo(a)anthracene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(b)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(k)fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	06/11/21	DS	
Benzo(a)pyrene	Not Detected	1	µg/L	06/11/21	DS	
Chrysene	Not Detected	1	µg/L	06/11/21	DS	
Dibenz(a,h)anthracene	Not Detected	2	µg/L	06/11/21	DS	
Fluoranthene	Not Detected	1	µg/L	06/11/21	DS	
Fluorene	Not Detected	5	µg/L	06/11/21	DS	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	06/11/21	DS	
2-Methylnaphthalene	Not Detected	5	µg/L	06/11/21	DS	
Naphthalene	Not Detected	5	µg/L	06/11/21	DS	
Phenanthrene	Not Detected	2	µg/L	06/11/21	DS	
Pyrene	Not Detected	5	µg/L	06/11/21	DS	
Surrogate Standards						
Nitrobenzene-d5	50.0%	-	% Recovery	06/11/21	DS	
2-Fluorobiphenyl	47.7%	-	% Recovery	06/11/21	DS	
Terphenyl-d14	57.0%	-	% Recovery	06/11/21	DS	
Analysis Information						
PNA Extraction	Completed	-	-	06/10/21	LB	

Data Qualifiers: I Internal Standard results outside of acceptance limits
 S QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits

E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated

M Matrix interference observed
 F Matrix Spike four times rule applied
 C See Case Narrative

Quality Control

VOC Matrix Spike Data

Spiked Sample: 11730 LCS		Matrix: Water		Units: ppb in solution					
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers	
1,1-Dichloroethene	0.0	25	21	22	84	88	4.7		
Benzene	0.0	25	20	21	80	84	4.9		
Trichloroethene	0.0	25	23	24	92	96	4.3		
Toluene	0.0	25	23	23	92	92	0.0		
Chlorobenzene	0.0	25	20	21	80	84	4.9		

PNA Matrix Spike Data

Spiked Sample: 11734 LCS		Matrix: Water		Units: ppm in extract					
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers	
Acenaphthene	0.0	20	12	13	60	65	8.0		
Phenanthrene	0.0	20	12	12	60	60	0.0		
Fluoranthene	0.0	20	12	13	60	65	8.0		
Pyrene	0.1	20	13	13	65	65	0.0		
Chrysene	0.1	20	13	13	65	65	0.0		

Case Narrative

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
 Analytical Chemistry Manager

CHAIN OF CUSTODY RECORD

CLIENT INFO	COMPANY	ATC Group Services LLC
	ADDRESS	46555 Humboldt Dr. Ste. 100
	CITY, STATE, ZIP	Novi, MI 48377
	TELEPHONE	810-287-1679
	FAX	
	CONTACT	Gerard DeBusschere
	ADDITIONAL PHONE	248-863-2563
	EMAIL ADDRESS	gerard.debuschere@atcgs.com

PROJECT INFO	REPORT NO. (LAB USE)	11734	Page 1 of 1
	P.O. NUMBER		
	PROJECT NUMBER	188EM20011	
	PROJECT NAME	Ann Arbor Fuel Farm	
	SAMPLING LOCATION	Ann Arbor, MI	
	SAMPLES COLLECTED BY	Spencer Overbeck	
	TURN AROUND TIME	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> By Date:	
	SPECIAL INSTRUCTIONS		

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air
U=Unknown or Other

** GRAB/COMP: G=Grab Sample, C=Composite Sample

LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE	GRAB / COMP	ANALYSIS REQUESTED	REMARKS / PRESERVATIVES
1		MW-1	3	0940	6/9/21	W	G	X X	240 ML HCL VOAS + 1500 ML Amber
2		MW-2		1003					
3		MW-3		1026					
4		MW-4		1049					
5		MW-5		1112					
6		MW-6		0917					
7		DUP-1		0000					Taken @ MW-6
8									
9									
10									

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY
	1	1425 6/9/21	
	2		
3			

SAMPLE RECEIVED	
<input checked="" type="checkbox"/> Wet Ice	RD
<input type="checkbox"/> Blue Ice	

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

Data Qualifiers: S Internal Standard results outside of acceptance limits
 R QC spike recovery outside of acceptance limits
 R RPD outside of acceptance limits
 E Reporting limit is elevated
 D Result is from a dilution
 J Result should be considered estimated
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 F Matrix Spike four times rule applied
 C See Case Narrative

Report Number: 11734
 Report Date: June 14, 2021
 Project Name: Ann Arbor Fuel Farm
 Project Number: 188EM20011
 Page: 10 of 10

November 5, 1996

Ms. Vicki Katko
Michigan Department of Environmental Quality
Environmental Response Division
Jackson State Office Building
301 E. Louis Glick Hwy.
Jackson, Michigan 49201



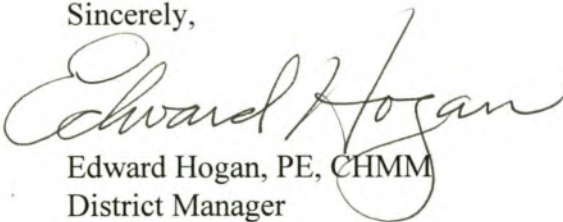
SUBJECT: Alsalis Diesel Fuel Spill
2000 S. Industrial, Ann Arbor, Michigan
Smith Environmental Project No. 05-8030-20

Dear Ms. Katko:

In preparation for our project status meeting scheduled for Wednesday, November 13, 1996, I am forwarding for your information a drawing depicting the extent of site remediation and location of excavation and closure samples. Supporting this drawing are two tables presenting the results of laboratory analyses of samples collected following the initial site remediation (Table 1) and the results of analysis performed on samples collected subsequent to the supplemental site remediation (Table 2), representing closure samples.

If you have any questions regarding the information presented herein, please don't hesitate to call either Jeff King or Ed Hogan.

Sincerely,


Edward Hogan, PE, CHMM
District Manager

attachments

cc: Mr. Sumedh Bahl, City of Ann Arbor
Ms. Stephanie Chrisman, REMSA
Mr. Richard Connors, Plunkett & Cooney

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
S-1, 5'	None Detected	NA
S-2, 4'	None Detected	NA
S-5, 5'	None Detected	NA
B-1, 8'	None Detected	NA
B-2, 8'	None Detected	NA
S-6, 4'	None Detected	NA
S-7, 5'	None Detected	NA
B-3, 8'	None Detected	NA
S-10, 2'	None Detected	NA
B-7, 4'	None Detected	NA
S-12, 3'	1,300 ug/kg benzo (g,h,i) perylene	1,500,000
S-15, 3'	400 ug/kg benzo (g,h,i) perylene	1,500,000
S-18, 3'	None Detected	NA
S-19, 3'	None Detected	NA
B-8, 5'	None Detected	NA
B-9, 4'	None Detected	NA
S-20, 3'	2,000 ug/kg naphthalene	5,200
*	900 ug/kg acenaphthylene	520
	3,800 ug/kg acenaphthene	26,000
*	1,700 ug/kg phenanthrene	520
	600 ug/kg anthracene	150,000
	7,000 ug/kg fluoranthene	18,000
	1,400 ug/kg benzo (a) anthracene	14,000
	1,100 ug/kg benzo (b) fluoranthene	14,000
*	1,700 ug/kg benzo (a) pyrene	1,400
	3,800 ug/kg benzo (g,h,i) perylene	1,500,000
B-10, 4'	None Detected	NA
S-21, 3'	None Detected	NA

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
B-11, 3'	560 ug/kg benzo (a) anthracene	14,000
	580 ug/kg chrysene	1,400,000
	440 ug/kg benzo (b) fluoranthene	14,000
	540 ug/kg benzo (a) pyrene	1,400
B-12, 4'	Jar broken during transport by lab	NA
B-13, 4'	2,300 ug/kg naphthalene	5,200
	1,500 ug/kg acenaphthene	26,000
	* 810 ug/kg phenanthrene	520
	780 ug/kg fluoranthene	18,000
	1,200 ug/kg pyrene	11,000
	500 ug/kg indeno (1,2,3-cd) pyrene	14,000
	* 1,600 ug/kg ethylbenzene	1,500
* 6,700 ug/kg xylenes	5,600	
S-22, 3'	8 ug/kg ethylbenzene	1,500
	16 ug/kg xylenes	5,600
B-16, 4'	310 ug/kg ethylbenzene	1,500
	20 ug/kg toluene	16,000
	360 ug/kg xylenes	5,600
S-23, 3'	30 ug/kg ethylbenzene	1,500
	9 ug/kg xylenes	5,600
B-17, 4'	810 ug/kg acenaphthene	26,000
	500 ug/kg phenanthrene	520
	590 ug/kg benzo (a) anthracene	14,000
	670 ug/kg chrysene	1,400,000
	440 ug/kg benzo (b) fluoranthene	14,000
	570 ug/kg benzo (a) pyrene	1,400
	5,000 ug/kg benzo (g,h,i) perylene	1,500,000
	91 ug/kg ethylbenzene	1,500
	22 ug/kg toluene	16,000
	320 ug/kg xylenes	5,600

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
B-18, 4'	Jar broken during transport by lab	NA
S-24, 3'	1,800 ug/kg naphthalene	5,200
*	1,400 ug/kg acenaphthylene	520
	480 ug/kg fluoranthene	18,000
	530 ug/kg benzo (g,h,i) perylene	1,500,000
	23 ug/kg ethylbenzene	1,500
	6 ug/kg xylenes	5,600
B-19, 3'	830 ug/kg naphthalene	5,200
	820 ug/kg acenaphthene	26,000
	370 ug/kg fluorene	18,000
*	1,300 ug/kg phenanthrene	520
	480 ug/kg anthracene	150,000
	2,200 ug/kg fluoranthene	18,000
	1,600 ug/kg pyrene	11,000
	1,100 ug/kg benzo (a) anthracene	14,000
	1,200 ug/kg chrysene	1,400,000
	720 ug/kg benzo (b) fluoranthene	14,000
	390 ug/kg benzo (k) fluoranthene	140,000
	720 ug/kg benzo (a) pyrene	1,400
	890 ug/kg indeno (1,2,3-cd) pyrene	14,000
	620 ug/kg dibenzo (a,h) anthracene	1,400
	6,300 ug/kg benzo (g,h,i) perylene	1,500,000
S-25, 3'	200 ug/kg acenaphthene	26,000
*	550 ug/kg phenanthrene	520
	470 ug/kg anthracene	150,000
	720 ug/kg fluoranthene	18,000
	790 ug/kg pyrene	11,000
	630 ug/kg benzo (a) anthracene	14,000
	700 ug/kg chrysene	1,400,000
	650 ug/kg benzo (b) fluoranthene	14,000
	470 ug/kg benzo (k) fluoranthene	140,000
	660 ug/kg benzo (a) pyrene	1,400
	580 ug/kg indeno (1,2,3-cd) pyrene	14,000
	430 ug/kg dibenzo (a,h) anthracene	1,400
	780 ug/kg benzo (g,h,i) perylene	1,500,000

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
B-21, 4' *	1,600 ug/kg phenanthrene	520
	1,100 ug/kg anthracene	150,000
	13,000 ug/kg fluoranthene	18,000
	9,000 ug/kg pyrene	11,000
	6,700 ug/kg benzo (a) anthracene	14,000
	6,000 ug/kg chrysene	1,400,000
	4,300 ug/kg benzo (b) fluoranthene	14,000
	2,200 ug/kg benzo (k) fluoranthene	140,000
	* 2,600 ug/kg benzo (a) pyrene	1,400
	1,800 ug/kg indeno (1,2,3-cd) pyrene	14,000
	* 1,500 ug/kg dibenzo (a,h) anthracene	1,400
	1,300 ug/kg benzo (g,h,i) perylene	1,500,000
	12 ug/kg ethylbenzene	1,500
8 ug/kg xylenes	5,600	
S-27, 3' *	1,500 ug/kg naphthalene	5,200
	* 910 ug/kg acenaphthylene	520
	390 ug/kg pyrene	11,000
	630 ug/kg benzo (g,h,i) perylene	1,500,000
B-22, 4'	1,000 ug/kg chrysene	1,400,000
	55 ug/kg ethylbenzene	1,500
	63 ug/kg xylenes	5,600
S-28, 3'	37 ug/kg ethylbenzene	1,500
	11 ug/kg xylenes	5,600
S-29, 3'	None Detected	NA

Notes: ug/kg = micrograms per kilogram
 NA = Not applicable
 * = concentration above Part 201 Generic Residential 20X Drinking Water Value

- Sample ID nomenclature: S = Sidewall Sample, B = Bottom Sample
- Sample depths referenced below ground surface (feet)
- Excavated areas represented by samples beginning with S-20 and B-10 and continuing to the end of Table 1 were subsequently re-excavated as depicted on Figure 2. Final closure samples are presented in Table 2.

TABLE 2
CLOSURE SAMPLE RESULTS

**ANALYTICAL RESULTS OF SOIL SAMPLES
 ASSOCIATED WITH FINAL EXCAVATION
 AT
 ATSALIS DIESEL FUEL SPILL
 2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN**

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
S-1, 5'	None Detected	NA
S-2, 4'	None Detected	NA
S-5, 5'	None Detected	NA
B-1, 8'	None Detected	NA
B-2, 8'	None Detected	NA
S-6, 4'	None Detected	NA
S-7, 5'	None Detected	NA
B-3, 8'	None Detected	NA
S-10, 2'	None Detected	NA
B-7, 4'	None Detected	NA
S-12, 3'	1,300 ug/kg benzo (g,h,i) perylene	1,500,000
S-15, 3'	400 ug/kg benzo (g,h,i) perylene	1,500,000
S-18, 3'	None Detected	NA
S-19, 3'	None Detected	NA
B-8, 5'	None Detected	NA
B-9, 4'	None Detected	NA
B-10, 4'	None Detected	NA
S-21, 3'	None Detected	NA
B-11, 3'	560 ug/kg benzo (a) anthracene 580 ug/kg chrysene 440 ug/kg benzo (b) fluoranthene 540 ug/kg benzo (a) pyrene	14,000 1,400,000 14,000 1,400
S-22, 3'	8 ug/kg ethylbenzene 16 ug/kg xylenes	1,500 5,600
S-23, 3'	30 ug/kg ethylbenzene 9 ug/kg xylenes	1,500 5,600

TABLE 2
CLOSURE SAMPLE RESULTS

**ANALYTICAL RESULTS OF SOIL SAMPLES
 ASSOCIATED WITH FINAL EXCAVATION
 AT
 ATSALIS DIESEL FUEL SPILL
 2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN**

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
B-22, 4'	1,000 ug/kg chrysene 55 ug/kg ethylbenzene 63 ug/kg xylenes	1,400,000 1,500 5,600
S-28, 3'	37 ug/kg ethylbenzene 11 ug/kg xylenes	1,500 5,600
S-29, 3'	None Detected	NA
B-23, 4.5'	None Detected	NA
B-24, 4.5'	None Detected	NA
B-25, 4.5'	None Detected	NA
S-30, 3'	None Detected	NA
S-31, 3'	None Detected	NA
S-32, 3'	430 ug/kg fluoranthene 640 ug/kg pyrene 340 ug/kg indeno (1,2,3-cd) pyrene	18,000 11,000 14,000
B-26, 4.5'	None Detected	NA
S-33, 3'	None Detected	NA
S-34, 3'	None Detected	NA

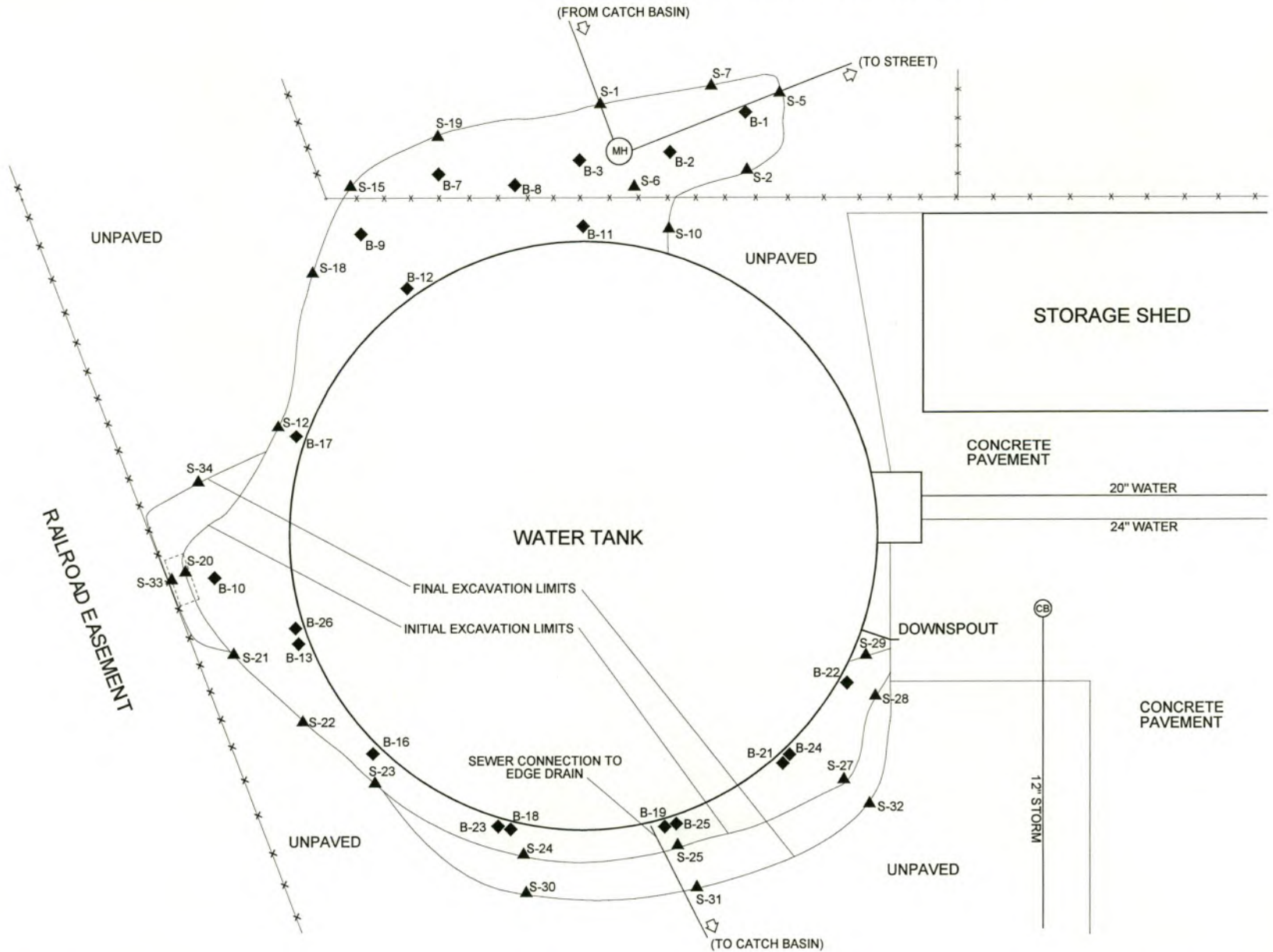
Notes: ug/kg = micrograms per kilogram

NA = Not applicable

* = concentration above Part 201 Generic Residential 20X Drinking Water Value

- Sample ID nomenclature: S = Sidewall Sample, B = Bottom Sample
- Sample depths referenced below ground surface
- Table 2 reflects supplemental excavation which removed residual soils exhibiting contaminant concentrations in excess of Part 201 Generic Residential cleanup criteria. Final closure samples results demonstrate compliance with Part 201.
- Sample B-23 continuing to the end of Table 2 represents the supplemental and final excavation sampling
- Samples collected at approx. double the frequency recommended in VSR document
- A total of 1,236 cubic yards of soil were removed during cleanup operations
- A total of 19,300 gallons of water/product were removed during cleanup operations

US ARMY RESERVE CENTER



LEGEND

- ◆ EXCAVATION BOTTOM SAMPLE
- ▲ EXCAVATION SIDEWALL SAMPLE
- APPROXIMATE FORMER TANK LOCATION

CITY OF ANN ARBOR
WATER AND UTILITIES

2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

FIGURE 2
CLOSURE SAMPLE LOCATIONS

SCALE	1" = 30'
PROJECT NO.	05-8030-20
DATE	11/96
DRAWN BY	JK



13485 STAMFORD COURT
LIVONIA, MICHIGAN 48150



CLOSURE REPORT

**ATSALIS DIESEL FUEL SPILL
CITY OF ANN ARBOR PROPERTY
2000 SOUTH INDUSTRIAL
ANN ARBOR, MICHIGAN**



PREPARED FOR:

**PLUNKETT & COONEY
900 MARQUETTE BUILDING
DETROIT, MICHIGAN 48226**

SMITH TECHNOLOGY PROJECT NO. 05-8030-20

FEBRUARY 6, 1997

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1.0 INTRODUCTION

Smith Technology Corporation (Smith Technology) was retained by General Star Management Company through Plunkett & Cooney, P.C., its legal counsel, to provide project coordination and management of corrective action activities associated with a release of diesel fuel from a temporary above ground storage tank at 2000 S. Industrial in Ann Arbor, Michigan. The remedial measures performed at the site during July through October 1996 were sufficient to achieve unrestricted closure with respect to the subject release. This report was prepared to document corrective action activities.

2.0 SITE DESCRIPTION AND BACKGROUND

The site is operated by the City of Ann Arbor as a field services office and maintenance yard for city water and utilities. The location of the site is shown on Figure 1, Site Location Map, in Appendix A. Onsite structures include a field services office, storage sheds, garages, a vehicle fueling station, and a 5 million gallon above ground water storage tank. The site layout is shown on Figure 2.

On April 21, 1996 a diesel fuel release was discovered on the City of Ann Arbor property at 2000 S. Industrial. The release source was found to be a 1,000 gallon temporary above ground fuel storage tank located on the subject site west of the 5 million gallon above ground water storage tank. The fuel tank had reportedly been vandalized. The fuel tank belonged to Atsalis Brothers Painting, a contractor retained by the City of Ann Arbor to sandblast and paint the referenced onsite water tank.

Initially, it was reported that the release impacted soil north and west of the water tank, as well as soil on the U.S. Army Reserve Center property adjacent to the north. The released fuel entered a sewer manhole on the Army Reserve Center property from where it ultimately traveled to Mill Creek. It was later reported that released fuel had also flowed around the southern portion of the water tank foundation and into a nearby catch basin on the subject City of Ann Arbor property.



The release to the sewers and surface water was cleaned up by a contractor (HI-PO) retained by Atsalis. This cleanup was observed/overseen by Michigan Department of Environmental Quality (MDEQ) representatives. Waste materials generated during this operation were disposed of by HI-PO. Concurrent with the sewer and surface water cleanup, Atsalis personnel performed limited impacted soil and free product removal at the release site. Atsalis' operation generated approximately 2,000 gallons of mixed diesel fuel and water which was staged in two 1,000 gallon poly tanks and several 55-gallon drums (supplied by Atsalis) onsite. Atsalis also removed approximately 30 cubic yards of impacted soil which was replaced with fill soils. The removed impacted soil was staged in a roll-off box onsite prior to transport for disposal by Atsalis.

Because of the impacted soil removal, soil replacement, placement of a tarp on the ground surface around the tank perimeter, and heavy equipment traffic during sandblasting and painting operations, the area on City of Ann Arbor property impacted by the release could not be distinguished based on our initial visual observations. However, an area of dead grass in the vicinity of the sewer manhole on the Army Reserve Center property was observed.

3.0 PRELIMINARY WORK

Prior to performing any remedial work, Smith Technology performed a preliminary site investigation to assess the approximate extent of impact. The results of our investigation were used to develop a scope of work for the removal of impacted soil and restoration of the site.

3.1 Project Coordination and Health and Safety Plan Preparation

In May 1996 Smith Technology was retained by General Star Management Company, through Plunkett & Cooney, P.C., the law firm representing the insurance company, to provide environmental engineering services associated with project coordination and management of corrective action activities in response to the subject diesel fuel release. During May and June 1996, Smith Technology met with City of Ann Arbor and Army Reserve Center personnel to



operations. Smith Technology visited the site to take measurements and observe site features and visual evidence of impact at ground surface in order to prepare a base drawing of the site. Smith Technology requested that the City of Ann Arbor and Army Reserve Center provide the locations of all buried structures and utilities onsite, and reviewed available site plans and drawings. A drawing of the concrete ring wall foundation for the water tank showed the foundation bottom to be approximately 4.5 feet below ground surface.

During the course of an approximate two month period, Smith Technology prepared and submitted extensive documentation to the City of Ann Arbor in response to concerns raised and conditions required by the City prior to conducting work on City of Ann Arbor property, especially concerning work adjacent to the 5 million gallon water tank. Smith Technology also prepared and submitted a work plan describing our proposed investigative and corrective action activities. Upon providing sufficient documentation to the City of Ann Arbor, Smith Technology executed an access agreement with the City in order to perform the work.

Prior to performing the work, Smith Technology contacted Ms. Vicki Katko of the Michigan Department of Environmental Quality (MDEQ), the site project manager, and informed her that we were proceeding with site investigation and corrective action. Smith Technology contacted MISS DIG, the local utility locating service, prior to initiating field work in order to identify potential underground utilities within the work area. Smith Technology developed a site-specific health and safety plan to address potential health and safety hazards at the site that may be encountered during field activities. The health and safety plan was reviewed by Smith Technology field personnel and maintained onsite during all Smith Technology field activities.



3.2 Field Soil Screening Survey

On July 8, 1996 Smith Technology advanced a total of 21 borings from within and around the impacted areas using a stainless steel hand auger. The borings were advanced to depths of 1 to 5 feet below ground surface. Soil samples collected from the borings were placed into new ziploc plastic bags, allowed to warm for a few minutes, and then screened for indications of organic constituents using an organic vapor analyzer (OVA). The results of field screening activities were sufficient to provide information on the approximate extent of impacted soil, except to the south of the water tank. Because visual, olfactory, and OVA indications of impact around the southern portion of the water tank were inconclusive, samples collected from the borings in that area were submitted to Brighton Analytical for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PNAs).

Areas adjacent to the water tank consisted of moist sand and gravel fill from ground surface to the explored depth of the borings (up to 3 feet). Areas further away from the water tank contained various amounts of fill and/or topsoil which was underlain by sandy clay.

The results of the field screening along with the laboratory analysis (of samples collected to the south of the tank) indicated that impact requiring corrective action existed adjacent to the south, north, and west portions of the water tank onsite and within the area of dead grass in the vicinity of the sewer manhole on the Army Reserve Center property. Based on the boring locations where impact was encountered and the presence of the underlying clay layer, Smith Technology initially estimated that approximately 400 cubic yards of soil were impacted by the spill. The depth of impact appeared to range from 2 to 5 feet.

Based on observed site conditions and the results of our field screening survey, it was decided that excavation and disposal of impacted soil would be the most timely and cost effective remedial approach to satisfy the City of Ann Arbor's requirement for unrestricted closure with respect to the subject release.



3.3 Liquid Waste Sampling and Disposal

On July 8, 1996 Smith Technology collected samples of the liquid waste (mixed diesel fuel and water) staged onsite in order to characterize the waste for disposal. The samples were submitted to Midwest Analytical Services for analysis of ignitability, pH/corrosivity, reactive cyanide and sulfide, polychlorinated biphenyls (PCBs), and TCLP metals, volatiles, and semi-volatiles. The results of laboratory analyses indicated that the liquid waste was suitable for disposal as non-hazardous waste.

After soliciting cost estimates from several liquid waste disposal facilities, Dearborn Refining Co. in Dearborn, Michigan was selected as the disposal site. On September 17, 1996 the 2,000 gallons of liquid waste from the poly tanks and drums was transferred into a tanker truck subcontracted by Dearborn Refining Co. and transported for disposal at Dearborn Refining Co. Atsalis subsequently removed the poly tanks from the site. On October 4, 1996 the drums were loaded and transported by Dearborn Refining Co. for disposal at Dearborn Refining Co.

3.4 Solicitation of Contractor Services

Based on the results of our field soil screening survey, Smith Technology prepared contract documents to competitively bid the removal and disposal of impacted soil and subsequent site restoration. On August 19, 1996 a pre-bid meeting was held at the site with representatives from Smith Technology, City of Ann Arbor, Army Reserve Center, B & V Construction, Carlo Environmental Technologies, EnviroVac Services, and H. Domine Enterprises. B & V Construction was ultimately selected to perform the work.

4.0 SITE REMEDIATION AND RESTORATION

4.1 Initial Excavation and Sampling

Prior to beginning work, Smith Technology contacted Ms. Vicki Katko of MDEQ to inform her of our plans to begin excavation at the site on October 8, 1996. On October 8-10, 1996 the first phase of excavation and disposal of impacted soil was performed. Excavation was started in the vicinity of the sewer manhole and piping on the Army Reserve Center property and was continued in areas west and south of the water tank, ending near the tank downspout at the southeastern part of the tank. Upon completion, the excavated areas were fenced to prevent unauthorized entry. Excavated soil was transported by B & V for disposal at the Wayne Disposal Type II landfill in Canton Township, Michigan.

The area in the vicinity of the sewer manhole was excavated to a depth of 8 feet to remove impacted soil. Wet sand was encountered beneath the clay layer at a depth of 4 to 8 feet. To fully access impacted soils at depth, the manhole and several sections of piping were removed. Because the manhole was removed, the catch basin which drains to the manhole was sealed with plastic placed below the grate. Sand and gravel backfill encountered around the manhole along with the presence of sand beneath the clay layer, both of which were not observed during our soil screening survey, resulted in a deeper and more extensive area of impact than previously estimated.

Remedial excavation for the remaining areas was terminated at a depth of 4 feet. While excavating adjacent to the northern water tank foundation, an edge drain system surrounding the foundation wall was encountered at a depth of 3.5 to 4 feet. The drain consisted of 4" perforated clay pipe surrounded by gravel. Upon breaking the drain, trapped water and diesel fuel were released. The release area was bermed to minimize spreading. As excavation and drain system removal progressed around the water tank foundation, tanker trucks were used to remove the water and diesel fuel encountered. The removed liquids were transported to Dearborn Refining Co. for disposal. The drain system was found to be connected to a sewer pipe leading to a catch

basin southeast of the water tank. Neither the drain system nor its sewer connection were identified on any drawings made available to Smith Technology, nor did any City of Ann Arbor personnel involved with the project know of their existence. The presence of the drain system and surrounding highly permeable gravel backfill and bedding, along with the presence of sand beneath the clay layer in areas further away from the water tank foundation, both of which were previously unknown, were responsible for creating a deeper and more extensive area of impact than previously estimated.

When visual and olfactory observations along with OVA readings indicated the potential for closure, excavation bottom and sidewall samples were collected to determine if soil impacted by the release had been adequately removed. Soil samples were collected at approximately double the frequency sufficient to satisfy the requirements in the April 1994 MDEQ Verification of Soil Remediation (VSR) Guidance Document. Soil sample locations and excavated areas are shown on Figure 2.

The soil samples were analyzed for BTEX and PNAs using EPA SW 846 analytical methods and detection limits, in accordance with the September 13, 1995 MDEQ Operational Memorandum #6, Revision 4 regarding analytical detection level guidance. Laboratory analysis was performed by AAC Trinity (formerly Kemron Environmental Services) in Farmington Hills, Michigan on an expedited (48 hour) turnaround basis.

The results of laboratory analyses were compared to Generic Residential 20 X Groundwater cleanup criteria established under Part 201 of the Natural Resources and Environmental Protection Act (Public Act 451 of 1994). The results indicated that unrestricted closure was achieved for the excavated areas north and northwest of the water tank, including the area on the Army Reserve Center property. However, the results indicated that additional remedial excavation would be necessary in order to achieve unrestricted closure for the remainder of the site, consisting primarily of soil adjacent to and to the west and south of the water tank. The analytical results of soil samples collected during this phase of excavation are summarized on



Table 1 of Appendix B. Laboratory data sheets and chain-of-custody documentation are presented in Appendix C.

4.2 Final Excavation and Sampling

Prior to resuming work, Smith Technology contacted Ms. Vicki Katko of MDEQ to inform her of our plans to continue excavation at the site on October 24, 1996. On October 24, 1996 the final phase of excavation and disposal of impacted soil was completed. Prior to and during soil removal operations, accumulated water within the excavation was removed by tanker trucks and transported for disposal at Dearborn Refining Co. Impacted bottom areas adjacent to the water tank remaining from the previous excavation activities were excavated an additional 0.5 feet to a depth of approximately 4.5 feet below ground surface and sampled. Remaining impacted sidewall areas were excavated an additional 5-10 feet radially outward from the water tank and sampled. No indications of impact were observed within any of the excavation bottom and sidewall samples collected during this second phase of excavation. Soil sample locations and excavated areas are shown on Figure 2.

As before, soil samples were collected at approximately double the frequency sufficient to satisfy the requirements in the April 1994 MDEQ VSR Guidance Document. The samples were analyzed for BTEX and PNAs by AAC Trinity on an expedited (48 hour) turnaround basis. The results of laboratory analyses indicated that the additional soil removed during the second phase of excavation was sufficient to successfully remediate the site. The results indicate that unrestricted closure is warranted with respect to the subject diesel fuel release. The analytical results of soil samples collected during this phase of excavation are summarized on Table 2 of Appendix B. Laboratory data sheets and chain-of-custody documentation are presented in Appendix C.

4.3 Site Restoration

On October 24-26, 1996 the site was completely restored to its original condition except for replacement of the portion of the chain link fence which divides the two properties and the three pine trees and sod removed from the Army Reserve Center property during soil removal operations. During site restoration operations, accumulated water within the excavation was removed by tanker trucks and transported for disposal at Dearborn Refining Co., thereby allowing for proper compaction of backfill materials in accordance with City of Ann Arbor requirements.

Based on direction provided by Mr. Sumedh Bahl of the City of Ann Arbor Engineering Department, the removed portion of the edge drain surrounding the water tank was replaced and tied into the existing sewer line using flexible perforated PVC piping wrapped in a geotextile fabric. The piping was surrounded with approximately 1 foot of ¾" to 1" (6A) gravel. Because the sewer manhole removed from the Army Reserve Center property was still intact, it was able to be reinstalled. New PVC sewer piping was connected from the manhole to the existing cast iron pipes. The plastic within the catch basin which drains to the manhole was removed.

In accordance with City of Ann Arbor requirements, the excavated areas were backfilled with MDOT Class II sand placed in approximately 1-foot lifts and compacted to at least 95% of maximum density. The upper 6 inches of the excavated area on City of Ann Arbor property was backfilled with MDOT 21A gravel and compacted to at least 95% of maximum density. The upper 6 inches of the excavated area on the Army Reserve Center property was backfilled with topsoil, pursuant to Army Reserve Center requirements.

Compaction was verified using a Troxler nuclear moisture-density gauge. Laboratory maximum density testing and field moisture-density testing were performed by CTI and Associates, Inc. The laboratory and field test results are presented in Appendix D.



During mid-November 1996 the removed portion of the chain link fence which divides the two properties was replaced. Three pine trees approximately 6 feet tall were planted on the Army Reserve Center property to replace the three pine trees removed during soil removal operations. Because of much lower than normal temperatures during late October through November and the lack of availability of sod during that period, sod will be replaced over the excavated area on the Army Reserve Center property in Spring 1997.

4.4 Waste Materials

During site remediation and restoration operations, a total of 1,236 cubic yards of impacted soil were removed and disposed by B & V at Wayne Disposal. This total exceeded our original estimate by 836 cubic yards because of unobserved and unforeseen conditions including the presence of: (1) granular backfill surrounding the sewer manhole on the Army Reserve Center property; (2) the edge drain system and surrounding gravel around the water tank foundation; and (3) extensive sand beneath what was initially thought to be a confining basal clay layer. Disposal receipts for the removed impacted soil are presented in Appendix E.

During site remediation and restoration operations, a total of 19,300 gallons of water/product were removed and transported by tanker trucks subcontracted by Dearborn Refining Co. and transported for disposal at Dearborn Refining Co. Manifests for the removed liquid wastes, including those for the liquids removed and stored during initial response operations in April 1996, are presented in Appendix F.

5.0 SITE CLOSURE

In a November 5, 1996 facsimile transmittal to Ms. Vicki Katko of the MDEQ, the site project manager, Smith Technology provided a summary of the analytical data along with a site drawing showing excavation limits and sample locations. The documents were transmitted in anticipation of a November 13, 1996 meeting to discuss project status. A copy of our November 5, 1996 transmittal is presented in Appendix G.



In response to our transmittal, Ms. Katko stated during a November 6, 1996 telephone conversation with Smith Technology that existing documentation is sufficient to demonstrate that closure has been attained and a separate meeting (to review that documentation) will not be necessary. Ms. Katko also requested that Smith Technology provide documentation of laboratory analytical methods and detection limits.

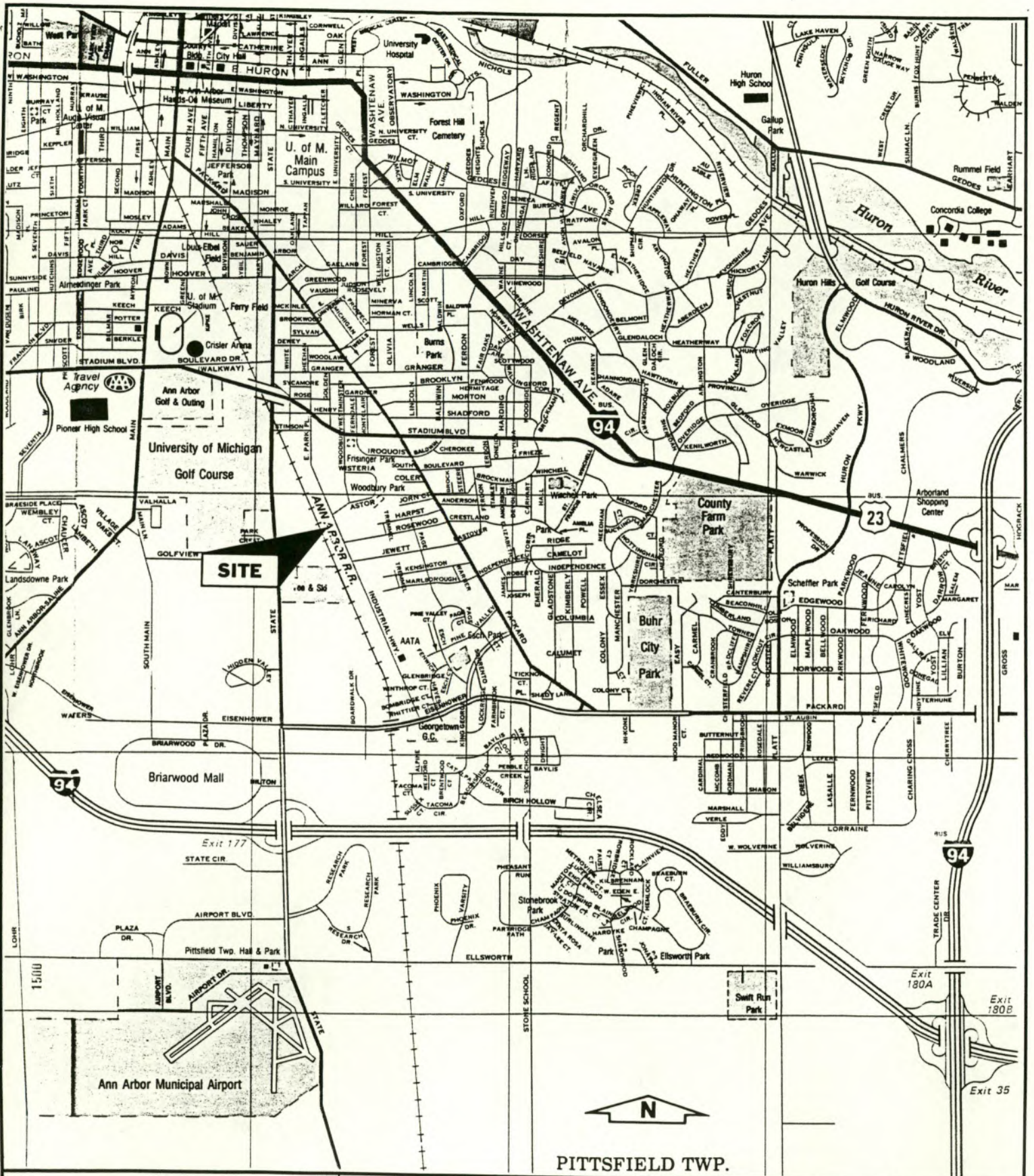
On November 11, 1996 Smith Technology transmitted to Ms. Katko a copy of a project laboratory data sheet along with a letter confirming that the aforementioned project status meeting was not necessary because closure had been attained. The letter also stated our intention to prepare and submit a final report of site remediation and closure, including all laboratory data sheets, waste manifests, and related project documentation. A copy of our November 11, 1996 transmittal is presented in Appendix H.

Based on the data generated during site remediation and confirmation sampling, it is our professional opinion that all applicable closure requirements under Part 201 of the Michigan Natural Resources and Environmental Protection Act (Public Act 451 of 1994) have been satisfied. No further action is recommended with respect to the subject diesel fuel release.

SMITH

APPENDIX A

FIGURES



SMITH
 ENVIRONMENTAL TECHNOLOGIES CORPORATION

13485 STAMFORD COURT LIVONIA, MICHIGAN 48150

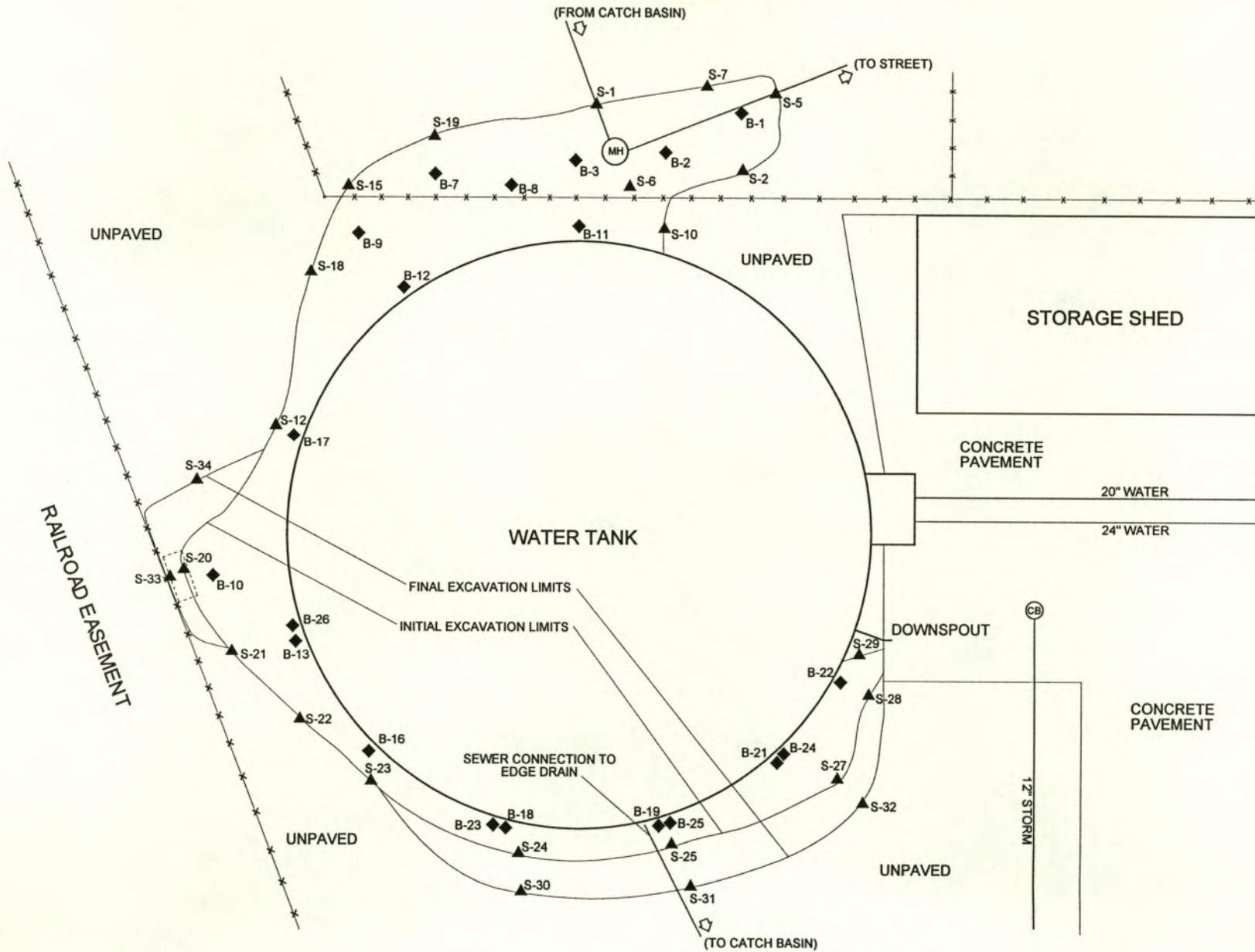
CITY OF ANN ARBOR
 WATER AND UTILITIES
 2000 S. INDUSTRIAL
 ANN ARBOR, MICHIGAN

FIGURE 1
 SITE LOCATION MAP

SCALE: 1" = APPROX 2 MI
 PROJECT NO.: 05-8030-20
 PREPARED BY: JK

SOURCE:
 AAA MICHIGAN
 ANN ARBOR & YPSILANTI

US ARMY RESERVE CENTER



LEGEND

- ◆ EXCAVATION BOTTOM SAMPLE
- ▲ EXCAVATION SIDEWALL SAMPLE
- APPROXIMATE FORMER TANK LOCATION

CITY OF ANN ARBOR
 WATER AND UTILITIES
 2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

FIGURE 2
 CLOSURE SAMPLE LOCATIONS

SCALE
 1" = 30'
 PROJECT NO.
 05-8030-20
 DATE
 11/96
 DRAWN BY
 JK



13485 STAMFORD COURT
 LIVONIA, MICHIGAN 48150

SMITH

APPENDIX B

TABLES

**TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN**

Date	Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
10-8-96	S-1, 5'	None Detected	NA
10-8-96	S-2, 4'	None Detected	NA
10-8-96	S-5, 5'	None Detected	NA
10-8-96	B-1, 8'	None Detected	NA
10-8-96	B-2, 8'	None Detected	NA
10-8-96	S-6, 4'	None Detected	NA
10-8-96	S-7, 5'	None Detected	NA
10-8-96	B-3, 8'	None Detected	NA
10-9-96	S-10, 2'	None Detected	NA
10-9-96	B-7, 4'	None Detected	NA
10-9-96	S-12, 3'	1,300 ug/kg benzo (g,h,i) perylene	1,500,000
10-9-96	S-15, 3'	400 ug/kg benzo (g,h,i) perylene	1,500,000
10-9-96	S-18, 3'	None Detected	NA
10-9-96	S-19, 3'	None Detected	NA
10-9-96	B-8, 5'	None Detected	NA
10-9-96	B-9, 4'	None Detected	NA
10-9-96	S-20, 3'	2,000 ug/kg naphthalene	5,200
	*	900 ug/kg acenaphthylene	520
		3,800 ug/kg acenaphthene	26,000
	*	1,700 ug/kg phenanthrene	520
		600 ug/kg anthracene	150,000
		7,000 ug/kg fluoranthene	18,000
		1,400 ug/kg benzo (a) anthracene	14,000
		1,100 ug/kg benzo (b) fluoranthene	14,000
	*	1,700 ug/kg benzo (a) pyrene	1,400
		3,800 ug/kg benzo (g,h,i) perylene	1,500,000
10-9-96	B-10, 4'	None Detected	NA
10-9-96	S-21, 3'	None Detected	NA

**TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN**

Date	Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
10-10-96	B-11, 3'	560 ug/kg benzo (a) anthracene 580 ug/kg chrysene 440 ug/kg benzo (b) fluoranthene 540 ug/kg benzo (a) pyrene	14,000 1,400,000 14,000 1,400
10-10-96	B-12, 4'	Jar broken during transport by lab	NA
10-10-96	B-13, 4'	2,300 ug/kg naphthalene 1,500 ug/kg acenaphthene * 810 ug/kg phenanthrene 780 ug/kg fluoranthene 1,200 ug/kg pyrene 500 ug/kg indeno (1,2,3-cd) pyrene * 1,600 ug/kg ethylbenzene * 6,700 ug/kg xylenes	5,200 26,000 520 18,000 11,000 14,000 1,500 5,600
10-10-96	S-22, 3'	8 ug/kg ethylbenzene 16 ug/kg xylenes	1,500 5,600
10-10-96	B-16, 4'	310 ug/kg ethylbenzene 20 ug/kg toluene 360 ug/kg xylenes	1,500 16,000 5,600
10-10-96	S-23, 3'	30 ug/kg ethylbenzene 9 ug/kg xylenes	1,500 5,600
10-10-96	B-17, 4'	810 ug/kg acenaphthene 500 ug/kg phenanthrene 590 ug/kg benzo (a) anthracene 670 ug/kg chrysene 440 ug/kg benzo (b) fluoranthene 570 ug/kg benzo (a) pyrene 5,000 ug/kg benzo (g,h,i) perylene 91 ug/kg ethylbenzene 22 ug/kg toluene 320 ug/kg xylenes	26,000 520 14,000 1,400,000 14,000 1,400 1,500,000 1,500 16,000 5,600

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Date	Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
10-10-96	B-18, 4'	Jar broken during transport by lab	NA
10-10-96	S-24, 3'	1,800 ug/kg naphthalene * 1,400 ug/kg acenaphthylene 480 ug/kg fluoranthene 530 ug/kg benzo (g,h,i) perylene 23 ug/kg ethylbenzene 6 ug/kg xylenes	5,200 520 18,000 1,500,000 1,500 5,600
10-10-96	B-19, 3'	830 ug/kg naphthalene 820 ug/kg acenaphthene 370 ug/kg fluorene * 1,300 ug/kg phenanthrene 480 ug/kg anthracene 2,200 ug/kg fluoranthene 1,600 ug/kg pyrene 1,100 ug/kg benzo (a) anthracene 1,200 ug/kg chrysene 720 ug/kg benzo (b) fluoranthene 390 ug/kg benzo (k) fluoranthene 720 ug/kg benzo (a) pyrene 890 ug/kg indeno (1,2,3-cd) pyrene 620 ug/kg dibenzo (a,h) anthracene 6,300 ug/kg benzo (g,h,i) perylene	5,200 26,000 18,000 520 150,000 18,000 11,000 14,000 1,400,000 14,000 140,000 1,400 14,000 1,400 1,500,000
10-10-96	S-25, 3'	200 ug/kg acenaphthene * 550 ug/kg phenanthrene 470 ug/kg anthracene 720 ug/kg fluoranthene 790 ug/kg pyrene 630 ug/kg benzo (a) anthracene 700 ug/kg chrysene 650 ug/kg benzo (b) fluoranthene 470 ug/kg benzo (k) fluoranthene 660 ug/kg benzo (a) pyrene 580 ug/kg indeno (1,2,3-cd) pyrene 430 ug/kg dibenzo (a,h) anthracene 780 ug/kg benzo (g,h,i) perylene	26,000 520 150,000 18,000 11,000 14,000 1,400,000 14,000 140,000 1,400 14,000 1,400 1,500,000

**TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN**

Date	Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
10-10-96	B-21, 4' *	1,600 ug/kg phenanthrene 1,100 ug/kg anthracene 13,000 ug/kg fluoranthene 9,000 ug/kg pyrene 6,700 ug/kg benzo (a) anthracene 6,000 ug/kg chrysene 4,300 ug/kg benzo (b) fluoranthene 2,200 ug/kg benzo (k) fluoranthene * 2,600 ug/kg benzo (a) pyrene 1,800 ug/kg indeno (1,2,3-cd) pyrene * 1,500 ug/kg dibenzo (a,h) anthracene 1,300 ug/kg benzo (g,h,i) perylene 12 ug/kg ethylbenzene 8 ug/kg xylenes	520 150,000 18,000 11,000 14,000 1,400,000 14,000 140,000 1,400 14,000 1,400 1,500,000 1,500 5,600
10-10-96	S-27, 3' *	1,500 ug/kg naphthalene * 910 ug/kg acenaphthylene 390 ug/kg pyrene 630 ug/kg benzo (g,h,i) perylene	5,200 520 11,000 1,500,000
10-10-96	B-22, 4'	1,000 ug/kg chrysene 55 ug/kg ethylbenzene 63 ug/kg xylenes	1,400,000 1,500 5,600
10-10-96	S-28, 3'	37 ug/kg ethylbenzene 11 ug/kg xylenes	1,500 5,600
10-10-96	S-29, 3'	None Detected	NA

Notes: ug/kg = micrograms per kilogram
NA = Not applicable
* = concentration above Part 201 Generic Residential 20X Drinking Water Value

- Sample ID nomenclature: S = Sidewall Sample, B = Bottom Sample
- Sample depths referenced below ground surface (feet)
- Excavated areas represented by samples beginning with S-20 and continuing to the end of Table 1 which exceeded the Part 201 Generic Residential 20X Drinking Water Value were subsequently re-excavated as depicted on Figure 2. Final closure samples are presented in Table 2.

TABLE 2
CLOSURE SAMPLE RESULTS
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH FINAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Date	Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
10-8-96	S-1, 5'	None Detected	NA
10-8-96	S-2, 4'	None Detected	NA
10-8-96	S-5, 5'	None Detected	NA
10-8-96	B-1, 8'	None Detected	NA
10-8-96	B-2, 8'	None Detected	NA
10-8-96	S-6, 4'	None Detected	NA
10-8-96	S-7, 5'	None Detected	NA
10-8-96	B-3, 8'	None Detected	NA
10-9-96	S-10, 2'	None Detected	NA
10-9-96	B-7, 4'	None Detected	NA
10-9-96	S-12, 3'	1,300 ug/kg benzo (g,h,i) perylene	1,500,000
10-9-96	S-15, 3'	400 ug/kg benzo (g,h,i) perylene	1,500,000
10-9-96	S-18, 3'	None Detected	NA
10-9-96	S-19, 3'	None Detected	NA
10-9-96	B-8, 5'	None Detected	NA
10-9-96	B-9, 4'	None Detected	NA
10-9-96	B-10, 4'	None Detected	NA
10-9-96	S-21, 3'	None Detected	NA
10-10-96	B-11, 3'	560 ug/kg benzo (a) anthracene 580 ug/kg chrysene 440 ug/kg benzo (b) fluoranthene 540 ug/kg benzo (a) pyrene	14,000 1,400,000 14,000 1,400
10-10-96	S-22, 3'	8 ug/kg ethylbenzene 16 ug/kg xylenes	1,500 5,600
10-10-96	S-23, 3'	30 ug/kg ethylbenzene 9 ug/kg xylenes	1,500 5,600

TABLE 2
CLOSURE SAMPLE RESULTS
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH FINAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Date	Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
10-10-96	B-22, 4'	1,000 ug/kg chrysene 55 ug/kg ethylbenzene 63 ug/kg xylenes	1,400,000 1,500 5,600
10-10-96	S-28, 3'	37 ug/kg ethylbenzene 11 ug/kg xylenes	1,500 5,600
10-10-96	S-29, 3'	None Detected	NA
10-24-96	B-23, 4.5'	None Detected	NA
10-24-96	B-24, 4.5'	None Detected	NA
10-24-96	B-25, 4.5'	None Detected	NA
10-24-96	S-30, 3'	None Detected	NA
10-24-96	S-31, 3'	None Detected	NA
10-24-96	S-32, 3'	430 ug/kg fluoranthene 640 ug/kg pyrene 340 ug/kg indeno (1,2,3-cd) pyrene	18,000 11,000 14,000
10-24-96	B-26, 4.5'	None Detected	NA
10-24-96	S-33, 3'	None Detected	NA
10-24-96	S-34, 3'	None Detected	NA

Notes: ug/kg = micrograms per kilogram
NA = Not applicable

- Sample ID nomenclature: S = Sidewall Sample, B = Bottom Sample
- Sample depths referenced below ground surface
- Table 2 reflects supplemental excavation which removed residual soils exhibiting contaminant concentrations in excess of Part 201 Generic Residential cleanup criteria. Final closure sample results demonstrate compliance with Part 201.
- Sample B-23 continuing to the end of Table 2 represents the supplemental and final excavation sampling

Appendix C

SMITH

APPENDIX C

LABORATORY DATA SHEETS
AND
CHAIN-OF-CUSTODY DOCUMENTATION

AAC Trinity Inc.
38855 Hills Tech Drive
Ste 550
Farmington Hills, MI 48331

Phone: (810)848-9656

SMITH TECHNOLOGY
13485 STAMFORD CT
LIVONIA MI 48150

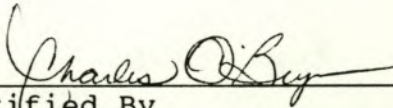
Attn: JEFF KING
Invoice Number:

Order #: 96-10-067
Date: 10/11/96 16:01
Work ID: ATSA LIS DIESEL SPILL/05803020
Date Received: 10/09/96
Date Completed: 10/10/96
Client Code: SMTH_354G

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	S-1, 5'
02	S-2, 4'
03	S-5, 5'
04	B-1, 8'

<u>Sample Number</u>	<u>Sample Description</u>
05	B-2, 8'
06	S-6, 4'
07	S-7, 5'
08	B-3, 8'



Certified By
Charles O'Bryan, Laboratory Director

Sample: 01A S-1, 5'

Collected: 10/08/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	86	1	% wt.	10/09/96	JE

Sample: 02A S-2, 4'

Collected: 10/08/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	92	1	% wt.	10/09/96	JE

Sample: 03A S-5, 5'

Collected: 10/08/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	91	1	% wt.	10/09/96	JE

Sample: 04A B-1, 8'

Collected: 10/08/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	87	1	% wt.	10/09/96	JE

Sample: 05A B-2, 8'

Collected: 10/08/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	89	1	% wt.	10/09/96	JE

Sample: 06A S-6, 4'

Collected: 10/08/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	92	1	% wt.	10/09/96	JE

Sample: 07A S-7, 5'

Collected: 10/08/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	91	1	% wt.	10/09/96	JE

Sample: 08A B-3, 8'

Collected: 10/08/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	88	1	% wt.	10/09/96	JE

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 3

Sample Description: S-1, 5' Collected: 10/08/96 11:40 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 01A Category: SOIL

ANALYST: MG EXTRACTED: 10/09/96 FILE #:
INSTRMT: 9010 INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 130 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 4

Sample Description: S-1, 5' Collected: 10/08/96 11:40 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 01A Category: SOIL

ANALYST: TAN FILE #: 1008021
INSTRMT: 3600CX INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 72.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 5

Sample Description: S-2,4'

Collected: 10/08/96 11:50 Method: 8310

Test Description: Polyaromatic Hydrocarbons

Test Code: PAHN

Lab No: 02A Category: SOIL

ANALYST: MG EXTRACTED: 10/09/96 FILE #:
INSTRMT: 9010 INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 98 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 6

Sample Description: S-2,4' Collected: 10/08/96 11:50 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 02A Category: SOIL

ANALYST: TAN FILE #: 1008022
INSTRMT: 3400CX INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 61.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 7

Sample Description: S-5,5' Collected: 10/08/96 13:15 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 03A Category: SOIL

ANALYST: MG EXTRACTED: 10/09/96 FILE #:
INSTRMT: 9010 INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 130 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 8

Sample Description: S-5,5' Collected: 10/08/96 13:15 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 03A Category: SOIL

ANALYST: TAN FILE #: 1008023
INSTRMT: 3400CX INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 81.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 9

Sample Description: B-1,8' Collected: 10/08/96 13:15 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 04A Category: SOIL

ANALYST: MG EXTRACTED: 10/09/96 FILE #:
INSTRMT: 9010 INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 100 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 10

Sample Description: B-1,8' Collected: 10/08/96 13:15 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 04A Category: SOIL

ANALYST: TAN FILE #: 1008033
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 50.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 11

Sample Description: B-2,8' Collected: 10/08/96 13:40 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 05A Category: SOIL

ANALYST: MG EXTRACTED: 10/09/96 FILE #:
INSTRMT: 9010 INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 120 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 12

Sample Description: B-2,8'

Collected: 10/08/96 13:40 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 05A Category: SOIL

ANALYST: TAN

FILE #: 1008025

INSTRMT: 3400CX

INJECTED: 10/09/96

FACTOR: 1

UNITS:

ug/kg

VERIFIED: CO

CAS#
71-43-2
100-41-4
108-88-3
1330-20-7

COMPOUND	RESULT	MDL
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 54.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 13

Sample Description: S-6,4'

Collected: 10/08/96 14:30 Method: 8310

Test Description: Polyaromatic Hydrocarbons

Test Code: PAHN

Lab No: 06A

Category: SOIL

ANALYST: MG EXTRACTED: 10/09/96 FILE #:
INSTRMT: 9010 INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES

p-Terphenyl NA % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 14

Sample Description: S-6,4'

Collected: 10/08/96 14:30 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 06A Category: SOIL

ANALYST: TAN

FILE #: 1008026

INSTRMT: 3400CX

INJECTED: 10/09/96

FACTOR: 1

UNITS:

ug/kg

VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 72.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 15

Sample Description: S-7,5' Collected: 10/08/96 14:45 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 07A Category: SOIL

ANALYST: MG EXTRACTED: 10/09/96 FILE #:
INSTRMT: 9010 INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 115 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 16

Sample Description: S-7,5'

Collected: 10/08/96 14:45 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 07A Category: SOIL

ANALYST: TAN

FILE #: 1008027

INSTRMT: 3400CX

INJECTED: 10/09/96

FACTOR: 1

UNITS:

ug/kg

VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 59.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 17

Sample Description: B-3,8' Collected: 10/08/96 16:00 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 08A Category: SOIL

ANALYST: MG EXTRACTED: 10/09/96 FILE #:
INSTRMT: 9010 INJECTED: 10/09/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 135 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 18

Sample Description: B-3,8'

Collected: 10/08/96 16:00 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 08A Category: SOIL

ANALYST: TAN

FILE #: 1008028

INSTRMT: 3400CX

INJECTED: 10/09/96

FACTOR: 1

UNITS:

ug/kg

VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 64.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-067
10/11/96 16:01

AAC Trinity Inc.
TEST METHODOLOGIES

Page 19

Polyaromatic Hydrocarbons Method: EPA 8310

Volatile Aromatics (BETX) Method: EPA 8020

Percent Solids

EPA Method 160.3 - Gravimetric, Dried at 103-105 Degrees C
Test results have been reported as "DRY WEIGHT" using the
formula below:

$$\text{RESULT (DRY WT.)} = \frac{\text{Conc (mg/kg or ug/kg)} * 100}{\text{Percent Solids}}$$

AAC Trinity, Inc.
Quality Control Report

Method: 8310
Date: 10/9/96
Sample I.D.: 96-10-067-06

Instrument: 9010
Operator: MG

Surrogates	Method Blank	MS Rec.	MS % Rec.	MSD Rec.	MSD % Rec.	RPD
p-Terphenyl	NA	21.00	105.00	26.70	133.50	23.90
Target Compounds						
Naphthalene	BDL	8.20	41.00	10.50	52.50	24.60
Acenaphthylene	BDL	11.60	58.00	12.20	61.00	5.04
Acenaphthene	BDL	15.70	78.50	14.60	73.00	7.26
Fluorene	BDL	15.20	76.00	16.30	81.50	6.98
Phenanthrene	BDL	18.20	91.00	20.00	100.00	9.42
Anthracene	BDL	18.80	94.00	20.50	102.50	8.65
Fluoranthene	BDL	20.90	104.50	25.50	127.50	19.83
Pyrene	BDL	23.50	117.50	25.20	126.00	6.98
Benzo(a)anthracene	BDL	21.90	109.50	24.40	122.00	10.80
Chrysene	BDL	24.50	122.50	28.40	142.00	14.74
Benzo(b)fluoranthene	BDL	22.70	113.50	26.60	133.00	15.82
Benzo(k)fluoranthene	BDL	22.70	113.50	27.10	135.50	17.67
Benzo(a)pyrene	BDL	21.20	106.00	25.10	125.50	16.85
Benzo(ghi)perylene	BDL	18.20	91.00	23.80	119.00	26.67
Dibenzo(ah)anthracene	BDL	24.40	122.00	28.30	141.50	14.80
Indeno(123cd)pyrene	BDL	25.60	128.00	30.10	150.50	16.16

BDL = Below Detection Limit

Det = Detected below quantification range

NA = Not available

AAC Trinity, Inc. Quality Control Report

Method: 8020
Date: 10/9/96
Sample I.D.: 96-10-067-08

Instrument: 3400cx
Operator: TAN

Surrogates	Method Blank (% Rec.)	MS Rec.	MS % Rec.	MSD Rec.	MSD % Rec.	RPD
a,a,a-TFT	84	11.60	58.00	10.20	51.00	12.84
Target Compounds						
Benzene	BDL	14.20	71.00	13.60	68.00	4.32
Ethylbenzene	BDL	12.30	61.50	12.00	60.00	2.47
Toluene	BDL	12.20	61.00	11.70	58.50	4.18
Total Xylenes	BDL	32.70	54.50	28.60	47.67	13.38

BDL = Below Detection Limit



AAC Trinity, Inc.
 38855 Hills Tech Drive, Suite 550
 Farmington Hills, MI 48331
 (810) 848-9656
 FAX (810) 848-9657

CHAIN-OF-CUSTODY RECORD / SAMPLE LOG

Company Name: <i>Smith Technology</i>				Project Contact: <i>Jeff King</i>				Acct. No.:																									
Telephone No.: <i>(313) 513-2522</i>				Project Name: <i>Atsalis Diesel Spill</i>				Page <i>1</i> of <i>1</i>																									
Project No.: <i>05-8030-20</i>			PO. No.:			<table border="1"> <tr> <th rowspan="2">Number of Samples</th> <th colspan="10">ANALYTICAL REQUEST</th> <th rowspan="2">TURNAROUND REQUIREMENTS OR COMMENTS</th> </tr> <tr> <td colspan="10" style="text-align: center; border: none;"> <i>BTEX, PNAS</i> </td> </tr> </table>						Number of Samples	ANALYTICAL REQUEST										TURNAROUND REQUIREMENTS OR COMMENTS	<i>BTEX, PNAS</i>									
Number of Samples	ANALYTICAL REQUEST												TURNAROUND REQUIREMENTS OR COMMENTS																				
	<i>BTEX, PNAS</i>																																
Sampler (print): <i>Jeff King</i>			Signature: <i>Jeffrey R. King</i>																														
Client Sample No.	Air	Solid	Fluid	Date	Time	Sample Volume	Sample Identification																										
<i>S-1, 5'</i>		X		<i>10/8/96</i>	<i>11:40</i>									<i>Rush TAT</i>																			
<i>S-2, 4'</i>		X			<i>11:50</i>																												
<i>S-5, 5'</i>		X			<i>13:15</i>																												
<i>B-1, 8'</i>		X			<i>13:15</i>																												
<i>B-2, 8'</i>		X			<i>13:40</i>																												
<i>S-6, 4'</i>		X			<i>14:30</i>																												
<i>S-7, 5'</i>		X			<i>14:45</i>																												
<i>B-3, 8'</i>		X			<i>16:00</i>																												
Relinquished by: (Signature) <i>Jeffrey R. King</i>			Date	Time	Received by: (Signature) <i>Jade Bennett</i>			Relinquished by: (Signature)			Date	Time	Received by: (Signature)																				
Relinquished by: (Signature)			Date	Time	Received for Laboratory by: (Signature)			Date	Time	Remarks:																							

AAC Trinity Inc.
38855 Hills Tech Drive
Ste 550
Farmington Hills, MI 48331

Phone: (810)848-9656

SMITH TECHNOLOGY
13485 STAMFORD CT
LIVONIA MI 48150

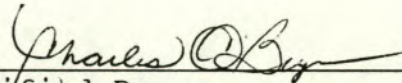
Attn: JEFF KING
Invoice Number:

Order #: 96-10-079
Date: 10/14/96 12:15
Work ID: 05.8030.20/ATSALIS DIESEL
Date Received: 10/10/96
Date Completed: 10/11/96
Client Code: SMTH_354G

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	S-10, 2'
02	B-7, 4'
03	S-12, 3'
04	S-15, 3'
05	S-18, 3'
06	S-19, 3'

<u>Sample Number</u>	<u>Sample Description</u>
07	B-8, 5'
08	B-9, 4'
09	S-20, 3'
10	B-10, 4'
11	S-21, 3'



Certified By
Charles O'Bryan, Laboratory Director

Sample Description: S-10, 2' Collected: 10/09/96 09:50 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 01A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA163
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES

p-Terphenyl 120 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 3

Sample Description: S-10, 2'

Collected: 10/09/96 09:50 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 01A Category: SOIL

ANALYST: TAN FILE #: 10002
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 72.3 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 4

Sample Description: B-7, 4' Collected: 10/09/96 11:15 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 02A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA166
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 100 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 5

Sample Description: B-7, 4'

Collected: 10/09/96 11:15 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 02A Category: SOIL

ANALYST: TAN

FILE #: 10003

INSTRMT: 3400CX

INJECTED: 10/10/96

FACTOR: 1

UNITS: ug/kg

VERIFIED: CO

CAS#
71-43-2
100-41-4
108-88-3
1330-20-7

COMPOUND	RESULT	MDL
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 73.7 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 6

Sample Description: S-12, 3' Collected: 10/09/96 14:10 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 03A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA167
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	1300	330

SURROGATES
p-Terphenyl 110 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 7

Sample Description: S-12, 3' Collected: 10/09/96 14:10 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 03A Category: SOIL

ANALYST: TAN FILE #: 10004
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 82.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 8

Sample Description: S-15, 3' Collected: 10/09/96 15:10 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 04A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA168
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	400	330

SURROGATES
p-Terphenyl 180 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 9

Sample Description: S-15, 3'

Collected: 10/09/96 15:10 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 04A Category: SOIL

ANALYST: TAN FILE #: 10005
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 79.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 10

Sample Description: S-18, 3' Collected: 10/09/96 16:20 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 05A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA169
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 95 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 11

Sample Description: S-18, 3' Collected: 10/09/96 16:20 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 05A Category: SOIL

ANALYST: TAN FILE #: 10001
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 76.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 12

Sample Description: S-19, 3' Collected: 10/09/96 16:25 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 06A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA170
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 135 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 13

Sample Description: S-19, 3' Collected: 10/09/96 16:25 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 06A Category: SOIL

ANALYST: TAN FILE #: 10006
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 69.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 14

Sample Description: B-8, 5' Collected: 10/09/96 16:30 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 07A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA171
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 110 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 15

Sample Description: B-8, 5'

Collected: 10/09/96 16:30 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 07A Category: SOIL

ANALYST: TAN

FILE #: 10007

INSTRMT: 3400CX

INJECTED: 10/10/96

FACTOR: 1

UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 66.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 16

Sample Description: B-9, 4' Collected: 10/09/96 16:35 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 08A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #:
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 135 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 17

Sample Description: B-9, 4'

Collected: 10/09/96 16:35 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 08A Category: SOIL

ANALYST: TAN

FILE #: 10010

INSTRMT: 3400CX

INJECTED: 10/10/96

FACTOR: 1

UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 54.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: S-20, 3' Collected: 10/09/96 16:45 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 09A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA174
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	2000	330
208-96-8	Acenaphthylene	900	330
83-32-9	Acenaphthene	3800	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	1700	330
120-12-7	Anthracene	600	330
206-44-0	Fluoranthene	7000	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	1400	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	1100	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	1700	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	3800	330

SURROGATES
p-Terphenyl 85 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 19

Sample Description: S-20, 3' Collected: 10/09/96 16:45 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 09A Category: SOIL

ANALYST: TAN FILE #: 10011
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 67.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 20

Sample Description: B-10, 4' Collected: 10/09/96 16:50 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 10A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA175
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 140 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: B-10, 4' Collected: 10/09/96 16:50 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 10A Category: SOIL

ANALYST: TAN FILE #: 10012
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 61.9 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: S-21, 3' Collected: 10/09/96 16:55 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 11A Category: SOIL

ANALYST: MG EXTRACTED: 10/10/96 FILE #: PNA176
INSTRMT: 9010 INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 115 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 23

Sample Description: S-21, 3' Collected: 10/09/96 16:55 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 11A Category: SOIL

ANALYST: TAN FILE #: 10013
INSTRMT: 3400CX INJECTED: 10/10/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 66.9 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-079
10/14/96 12:15

AAC Trinity Inc.
TEST METHODOLOGIES

Page 24

Polyaromatic Hydrocarbons Method: EPA 8310

Volatile Aromatics (BETX) Method: EPA 8020

AAC Trinity, Inc. Quality Control Report

Method: 8020
Date: 10/10/96
Sample I.D.: 96-10-079-11

Instrument: 3400cx
Operator: TAN

Surrogates	Method Blank (% Rec.)	MS Rec.	MS % Rec.	MSD Rec.	MSD % Rec.	RPD
a,a,a-TFT	95.3	11.60	58.00	13.80	69.00	17.32
Target Compounds						
Benzene	BDL	14.80	74.00	15.50	77.50	4.62
Ethylbenzene	BDL	14.40	72.00	15.50	77.50	7.36
Toluene	BDL	13.70	68.50	14.60	73.00	6.36
Total Xylenes	BDL	37.10	61.83	39.00	65.00	4.99

BDL = Below Detection Limit

AAC Trinity, Inc.
Quality Control Report

Method: 8310
Date: 10/10/96
Sample I.D.: 96-10-079-01

Instrument: 9010
Operator: MG

Surrogates	Method Blank	MS Rec.	MS % Rec.	MSD Rec.	MSD % Rec.	RPD
p-Terphenyl	120%	22.60	113.00	25.80	129.00	13.22
Target Compounds						
Naphthalene	BDL	18.10	90.50	16.70	83.50	8.05
Acenaphthylene	BDL	19.40	97.00	21.20	106.00	8.87
Acenaphthene	BDL	22.80	114.00	23.80	119.00	4.29
Fluorene	BDL	20.20	101.00	23.90	119.50	16.78
Phenanthrene	BDL	23.80	119.00	27.70	138.50	15.15
Anthracene	BDL	21.20	106.00	24.70	123.50	15.25
Fluoranthene	BDL	22.30	111.50	27.50	137.50	20.88
Pyrene	BDL	23.40	117.00	29.90	149.50	24.39
Benzo(a)anthracene	BDL	23.50	117.50	26.60	133.00	12.38
Chrysene	BDL	27.20	136.00	28.30	141.50	3.96
Benzo(b)fluoranthene	BDL	24.00	120.00	27.10	135.50	12.13
Benzo(k)fluoranthene	BDL	23.50	117.50	29.70	148.50	23.31
Benzo(a)pyrene	BDL	22.30	111.50	25.70	128.50	14.17
Benzo(ghi)perylene	BDL	25.60	128.00	Det		NA
Dibenzo(ah)anthracene	BDL	24.20	121.00	37.60	188.00	43.37
Indeno(123cd)pyrene	BDL	11.60	58.00	9.60	48.00	18.87

BDL = Below Detection Limit

Det = Detected outside of quantification range

NA = Not available

AAC Trinity Inc.
38855 Hills Tech Drive
Ste 550
Farmington Hills, MI 48331

Phone: (810)848-9656

SMITH TECHNOLOGY
13485 STAMFORD CT
LIVONIA MI 48150

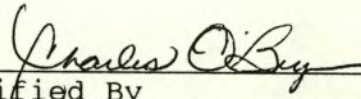
Attn: JEFF KING
Invoice Number:

Order #: 96-10-086
Date: 10/16/96 09:15
Work ID: 05-8030-20
Date Received: 10/11/96
Date Completed: 10/14/96
Client Code: SMTH_354G

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	B-11, 3'
02	B-13, 4'
03	S-22, 3'
04	B-16, 4'
05	S-23, 3'
06	B-17, 4'
07	S-24, 3'

<u>Sample Number</u>	<u>Sample Description</u>
08	B-19, 3'
09	S-25, 3'
10	B-21, 4'
11	S-27, 3'
12	B-22, 4'
13	S-28, 3'
14	S-29, 3'



Certified By
Charles O'Bryan, Laboratory Director

Sample: 01A B-11, 3'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	93	1	% wt.	10/14/96	JE

Sample: 02A B-13, 4'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	91	1	% wt.	10/14/96	JE

Sample: 03A S-22, 3'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	93	1	% wt.	10/14/96	JE

Sample: 04A B-16, 4'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	90	1	% wt.	10/14/96	JE

Sample: 05A S-23, 3'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	93	1	% wt.	10/14/96	JE

Sample: 06A B-17, 4'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	93	1	% wt.	10/14/96	JE

Sample: 07A S-24, 3'

Collected: 10/10/95 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	90	1	% wt.	10/14/96	JE

Sample: 08A B-19, 3'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	89	1	% wt.	10/14/96	JE

Sample: 09A S-25, 3'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	93	1	% wt.	10/14/96	JE

Sample: 10A B-21, 4'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	91	1	% wt.	10/14/96	JE

Sample: 11A S-27, 3'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	92	1	% wt.	10/14/96	JE

Sample: 12A B-22, 4'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	91	1	% wt.	10/14/96	JE

Sample: 13A S-28, 3'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	91	1	% wt.	10/14/96	JE

Sample: 14A S-29, 3'

Collected: 10/10/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	92	1	% wt.	10/14/96	JE

Order # 96-10-086
10/16/96 09:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: B-11, 3' Collected: 10/10/96 07:45 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 01A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	560	330
218-01-9	Chrysene	580	330
205-99-2	Benzo(b)fluoranthene	440	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	540	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES

p-Terphenyl 84 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-086
10/16/96 09:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 5

Sample Description: B-11, 3' Collected: 10/10/96 07:45 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 01A Category: SOIL

ANALYST: TAN FILE #: 1011003
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 64.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Sample Description: B-13, 4' Collected: 10/10/96 07:55 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 02A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	2300	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	1500	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	810	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	780	330
129-00-0	Pyrene	1200	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	500	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 120 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-086
10/16/96 09:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: B-13, 4' Collected: 10/10/96 07:55 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 02A Category: SOIL

ANALYST: TAN FILE #: 1011024
INSTRMT: 3400CX INJECTED: 10/14/96 FACTOR: 100 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	500
100-41-4	Ethylbenzene	1600	500
108-88-3	Toluene	ND	500
1330-20-7	Xylenes, Total	6700	500

SURROGATES
a,a,a-trifluorotoluene 78.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-086
10/16/96 09:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: S-22, 3' Collected: 10/10/96 08:30 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 03A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 97 _____ % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

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Sample Description: S-22, 3' Collected: 10/10/96 08:30 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 03A Category: SOIL

ANALYST: TAN FILE #: 1011005
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	8	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	16	5.0

SURROGATES
a,a,a-trifluorotoluene 70.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Sample Description: B-16, 4' Collected: 10/10/96 09:25 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 04A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kh VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 85 _____ % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

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Sample Description: B-16, 4' Collected: 10/10/96 09:25 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 04A Category: SOIL

ANALYST: TAN FILE #: 1011006
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	20
100-41-4	Ethylbenzene	310	20
108-88-3	Toluene	20	20
1330-20-7	Xylenes, Total	360	20

SURROGATES
a,a,a-trifluorotoluene 97.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

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TEST RESULTS BY SAMPLE

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Sample Description: S-23, 3' Collected: 10/10/96 09:30 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 05A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/14/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 100 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

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Sample Description: S-23, 3' Collected: 10/10/96 09:30 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 05A Category: SOIL

ANALYST: TAN FILE #: 1011007
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	30	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	9	5.0

SURROGATES
a,a,a-trifluorotoluene 70.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

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Sample Description: B-17, 4' Collected: 10/10/96 10:15 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 06A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	810	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	500	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	590	330
218-01-9	Chrysene	670	330
205-99-2	Benzo(b)fluoranthene	440	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	570	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	5000	330

SURROGATES
p-Terphenyl 130 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

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Sample Description: B-17, 4' Collected: 10/10/96 10:15 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 06A Category: SOIL

ANALYST: TAN FILE #: 1011008
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	91	5.0
108-88-3	Toluene	22	5.0
1330-20-7	Xylenes, Total	320	5.0

SURROGATES
a,a,a-trifluorotoluene 89.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Sample Description: S-24, 3' Collected: 10/10/95 10:35 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 07A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	1800	330
208-96-8	Acenaphthylene	1400	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	480	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	530	330

SURROGATES
p-Terphenyl 57 _____ % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

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TEST RESULTS BY SAMPLE

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Sample Description: S-24, 3' Collected: 10/10/95 10:35 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 07A Category: SOIL

ANALYST: TAN FILE #: 1011009
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	23	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	6	5.0

SURROGATES
a,a,a-trifluorotoluene 69.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED

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Sample Description: B-19, 3' Collected: 10/10/96 11:10 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 08A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	830	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	820	330
86-73-7	Fluorene	370	330
85-01-8	Phenanthrene	1300	330
120-12-7	Anthracene	480	330
206-44-0	Fluoranthene	2200	330
129-00-0	Pyrene	1600	330
56-55-3	Benzo(a)anthracene	1100	330
218-01-9	Chrysene	1200	330
205-99-2	Benzo(b)fluoranthene	720	330
207-08-9	Benzo(k)fluoranthene	390	330
50-32-8	Benzo(a)pyrene	720	330
193-39-5	Indeno(1,2,3-cd)pyrene	890	330
53-70-3	Dibenzo(a,h)anthracene	620	330
191-24-2	Benzo(g,h,i)perylene	6300	330

SURROGATES
p-Terphenyl 79 _____ % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

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TEST RESULTS BY SAMPLE

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Sample Description: B-19, 3' Collected: 10/10/96 11:10 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 08A Category: SOIL

ANALYST: TAN FILE #: 1011010
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 58.6 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Sample Description: S-25, 3' Collected: 10/10/96 11:15 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 09A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	200	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	550	330
120-12-7	Anthracene	470	330
206-44-0	Fluoranthene	720	330
129-00-0	Pyrene	790	330
56-55-3	Benzo(a)anthracene	630	330
218-01-9	Chrysene	700	330
205-99-2	Benzo(b)fluoranthene	650	330
207-08-9	Benzo(k)fluoranthene	470	330
50-32-8	Benzo(a)pyrene	660	330
193-39-5	Indeno(1,2,3-cd)pyrene	580	330
53-70-3	Dibenzo(a,h)anthracene	430	330
191-24-2	Benzo(g,h,i)perylene	780	330

SURROGATES
p-Terphenyl 64 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

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Sample Description: S-25, 3' Collected: 10/10/96 11:15 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 09A Category: SOIL

ANALYST: TAN FILE #: 1011011
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 51.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Sample Description: B-21, 4' Collected: 10/10/96 12:55 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 10A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	1600	330
120-12-7	Anthracene	1100	330
206-44-0	Fluoranthene	13000	330
129-00-0	Pyrene	9000	330
56-55-3	Benzo(a)anthracene	6700	330
218-01-9	Chrysene	6000	330
205-99-2	Benzo(b)fluoranthene	4300	330
207-08-9	Benzo(k)fluoranthene	2200	330
50-32-8	Benzo(a)pyrene	2600	330
193-39-5	Indeno(1,2,3-cd)pyrene	1800	330
53-70-3	Dibenzo(a,h)anthracene	1500	330
191-24-2	Benzo(g,h,i)perylene	1300	330

SURROGATES
p-Terphenyl * _____ % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

* Sample matrix interference.

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Sample Description: B-21, 4' Collected: 10/10/96 12:55 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 10A Category: SOIL

ANALYST: TAN FILE #: 1011012
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	12	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	8	5.0

SURROGATES
a,a,a-trifluorotoluene 103.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

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Sample Description: S-27, 3' Collected: 10/10/96 13:00 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 11A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	1500	330
208-96-8	Acenaphthylene	910	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	390	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	630	330

SURROGATES
p-Terphenyl 120 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

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Sample Description: S-27, 3' Collected: 10/10/96 13:00 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 11A Category: SOIL

ANALYST: TAN FILE #: 1011015
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 76.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

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Sample Description: B-22, 4' Collected: 10/10/96 13:40 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 12A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	1000	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 77 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

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Sample Description: B-22, 4' Collected: 10/10/96 13:40 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 12A Category: SOIL

ANALYST: TAN FILE #: 1011017
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	55	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	63	5.0

SURROGATES
a,a,a-trifluorotoluene 111.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

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Sample Description: S-28, 3' Collected: 10/10/96 13:45 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 13A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 170 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-086
10/16/96 09:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: S-28, 3'
Test Description: Volatile Organics (BETX)

Collected: 10/10/96 13:45 Method: 8020
Test Code: BETX5 Lab No: 13A Category: SOIL

ANALYST: TAN FILE #: 1011018
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	37	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	11	5.0

SURROGATES

a,a,a-trifluorotoluene 72.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-086
10/16/96 09:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: S-29, 3' Collected: 10/10/96 13:45 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 14A Category: SOIL

ANALYST: MG EXTRACTED: 10/11/96 FILE #:
INSTRMT: 9010 INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 120 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-086
10/16/96 09:15

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: S-29, 3'
Test Description: Volatile Organics (BETX)

Collected: 10/10/96 13:45 Method: 8020
Test Code: BETX5 Lab No: 14A Category: SOIL

ANALYST: TAN FILE #: 1011019
INSTRMT: 3400CX INJECTED: 10/11/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 89.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-086
10/16/96 09:15

AAC Trinity Inc.
TEST METHODOLOGIES

Page 32

Polyaromatic Hydrocarbons Method: EPA 8310

Volatile Aromatics (BETX) Method: EPA 8020

Percent Solids

EPA Method 160.3 - Gravimetric, Dried at 103-105 Degrees C
Test results have been reported as "DRY WEIGHT" using the
formula below:

$$\text{RESULT (DRY WT.)} = \frac{\text{Conc (mg/kg or ug/kg)} * 100}{\text{Percent Solids}}$$

AAC Trinity, Inc.

Quality Control Report

Method: 8020
Date: 10/11/96
Sample I.D.: 96-10-086-14

Instrument: 3400cx
Operator: TAN

Surrogates	Method Blank (% Rec.)	MS Rec.	MS % Rec.	MSD Rec.	MSD % Rec.	RPD
a,a,a-TFT	102.5	16.40	82.00	18.90	94.50	14.16
Target Compounds						
Benzene	BDL	19.30	96.50	19.30	96.50	0.00
Ethylbenzene	BDL	22.40	112.00	22.60	113.00	0.89
Toluene	BDL	18.90	94.50	18.40	92.00	2.68
Total Xylenes	BDL	56.20	93.67	48.90	81.50	13.89

BDL = Below Detection Limit

AAC Trinity, Inc.
Quality Control Report

Method: 8310
Date: 10/11/96
Sample I.D.: 96-10-086-01

Instrument: 9010
Operator: MG

Surrogates	Method Blank	MS Rec.	MS % Rec.	MSD Rec.	MSD % Rec.	RPD
p-Terphenyl	84%	7.80	39.00	8.20	41.00	5.00
Target Compounds						
Naphthalene	BDL	*		*		
Acenaphthylene	BDL	*		*		
Acenaphthene	BDL	*		*		
Fluorene	BDL	*		*		
Phenanthrene	BDL	*		*		
Anthracene	BDL	*		*		
Fluoranthene	BDL	*		*		
Pyrene	BDL	*		*		
Benzo(a)anthracene	BDL	*		*		
Chrysene	BDL	*		*		
Benzo(b)fluoranthene	BDL	*		*		
Benzo(k)fluoranthene	BDL	*		*		
Benzo(a)pyrene	BDL	*		*		
Benzo(ghi)perylene	BDL	*		*		
Dibenzo(ah)anthracene	BDL	*		*		
Indeno(123cd)pyrene	BDL	*		*		

BDL = Below Detection Limit

Det = Detected outside of quantification range

NA = Not available

* Sample Matrix Interference

AAC Trinity Inc.
38855 Hills Tech Drive
Ste 550
Farmington Hills, MI 48331

Phone: (810)848-9656

SMITH TECHNOLOGY
13485 STAMFORD CT
LIVONIA MI 48150

Attn: JEFF KING

Purchase Order: 32891
Invoice Number: 101036

Order #: 96-10-181
Date: 11/01/96 11:37
Work ID: 05-8030-20/ATSALIS DIESEL
Date Received: 10/25/96
Date Completed: 10/28/96

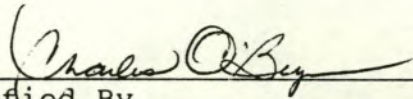
Client Code: SMTH_354G

Report Revised 10/31/96. Sample 06A re analyzed.

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	B-23/4.5'
02	B-24/4.5'
03	B-25/4.5'
04	S-30/3'
05	S-31/3'

<u>Sample Number</u>	<u>Sample Description</u>
06	S-32/3'
07	B-26/4.5'
08	S-33/3'
09	S-34/4'



Certified By
Charles O'Bryan, Laboratory Director

Sample: 01A B-23/4.5'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	84	1	% wt.	10/25/96	MG

Sample: 02A B-24/4.5'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	89	1	% wt.	10/25/96	MG

Sample: 03A B-25/4.5'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	88	1	% wt.	10/25/96	MG

Sample: 04A S-30/3'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	90	1	% wt.	10/25/96	MG

Sample: 05A S-31/3'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	89	1	% wt.	10/25/96	MG

Sample: 06A S-32/3'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	88	1	% wt.	10/25/96	MG

Sample: 07A B-26/4.5'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	93	1	% wt.	10/25/96	MG

Sample: 08A S-33/3'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	78	1	% wt.	10/25/96	MG

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 3

Sample: 09A S-34/4'

Collected: 10/24/96 Category: SOIL

<u>Test Description</u>	<u>Result</u>	<u>Det Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Percent Solids	88	1	% wt.	10/25/96	MG

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 4

Sample Description: B-23/4.5' Collected: 10/24/96 10:15 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 01A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA240
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 44 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 5

Sample Description: B-23/4.5' Collected: 10/24/96 10:15 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 01A Category: SOIL

ANALYST: TAN FILE #: 1011054
INSTRMT: 3400CX INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 77.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 6

Sample Description: B-24/4.5' Collected: 10/24/96 10:30 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 02A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA241
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 105 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 7

Sample Description: B-24/4.5' Collected: 10/24/96 10:30 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 02A Category: SOIL

ANALYST: TAN FILE #: 1011055
INSTRMT: 3400CX INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 80.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 8

Sample Description: B-25/4.5' Collected: 10/24/96 10:40 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 03A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA243
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 75 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 9

Sample Description: B-25/4.5' Collected: 10/24/96 10:40 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 03A Category: SOIL

ANALYST: TAN FILE #: 1011056
INSTRMT: 3400CX INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 69.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 10

Sample Description: S-30/3' Collected: 10/24/96 11:00 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 04A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PAN245
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 155 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 11

Sample Description: S-30/3'

Collected: 10/24/96 11:00 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 04A Category: SOIL

ANALYST: TAN

FILE #: 1011057

INSTRMT: 3400CX

INJECTED: 10/25/96

FACTOR: 1

UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 67.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 12

Sample Description: S-31/3' Collected: 10/24/96 11:05 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 05A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA246
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 85 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 13

Sample Description: S-31/3'

Collected: 10/24/96 11:05 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 05A Category: SOIL

ANALYST: TAN

FILE #: 1011058

INSTRMT: 3400CX

INJECTED: 10/25/96

FACTOR: 1

UNITS:

ug/kg

VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 76.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

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Sample Description: S-32/3' Collected: 10/24/96 11:10 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 06A Category: SOIL

ANALYST: MG EXTRACTED: 10/29/96 FILE #: PNA247
INSTRMT: 9010 INJECTED: 10/29/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	430	330
129-00-0	Pyrene	640	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	340	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES

p-Terphenyl 120 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 15

Sample Description: S-32/3'

Collected: 10/24/96 11:10 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 06A Category: SOIL

ANALYST: TAN

FILE #: 1011059

INSTRMT: 3400CX

INJECTED: 10/25/96

FACTOR: 1

UNITS:

ug/kg

VERIFIED: CO

CAS#
71-43-2
100-41-4
108-88-3
1330-20-7

COMPOUND	RESULT	MDL
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 70.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 16

Sample Description: B-26/4.5' Collected: 10/24/96 14:10 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 07A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA248
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 95 _____ % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 17

Sample Description: B-26/4.5'

Collected: 10/24/96 14:10 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 07A Category: SOIL

ANALYST: TAN

FILE #: 1011060

INSTRMT: 3400CX

INJECTED: 10/25/96

FACTOR: 1

UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 67.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD

DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 18

Sample Description: S-33/3' Collected: 10/24/96 16:40 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 08A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA250
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 115 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 19

Sample Description: S-33/3'

Collected: 10/24/96 16:40 Method: 8020

Test Description: Volatile Organics (BETX)

Test Code: BETX5 Lab No: 08A Category: SOIL

ANALYST: TAN

FILE #: 1011061

INSTRMT: 3400CX

INJECTED: 10/25/96

FACTOR: 1

UNITS:

ug/kg

VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES

a,a,a-trifluorotoluene 62.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 20

Sample Description: S-34/4' Collected: 10/24/96 17:00 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 09A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA251
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 90 _____ % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

- ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
- NA = NOT ANALYZED
- NF = NOT FOUND
- DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 21

Sample Description: S-34/4' Collected: 10/24/96 17:00 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 09A Category: SOIL

ANALYST: TAN FILE #: 1011062
INSTRMT: 3400CX INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 72.0 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST METHODOLOGIES

Page 22

Polyaromatic Hydrocarbons Method: EPA 8310

Volatile Aromatics (BETX) Method: EPA 8020

Percent Solids

EPA Method 160.3 - Gravimetric, Dried at 103-105 Degrees C
Test results have been reported as "DRY WEIGHT" using the
formula below:

$$\text{RESULT (DRY WT.)} = \frac{\text{Conc (mg/kg or ug/kg)} * 100}{\text{Percent Solids}}$$



AAC Trinity, Inc.
 38855 Hills Tech Drive, Suite 550
 Farmington Hills, MI 48331
 (810) 848-9656
 FAX (810) 848-9657

CHAIN-OF-CUSTODY RECORD / SAMPLE LOG

Company Name: <i>Smith Technology</i>				Project Contact: <i>Jeff King</i>				Acct. No.:												
Telephone No.: <i>(313)513-2522 fax 513-0026</i>				Project Name: <i>Atsatis Diesel Clean up</i>				Page <i>1</i> of <i>1</i>												
Project No.: <i>05-8030-20</i>			P.O. No.: <i>32891</i>			Number of Samples	ANALYTICAL REQUEST						TURNAROUND REQUIREMENTS OR COMMENTS							
Sampler (print): <i>Jeff King</i>			Signature: <i>Jeffrey R. King</i>				/BTEX, PNAS													
Client Sample No	Air	Solid	Fluid	Date	Time	Sample Volume	Sample Identification													
<i>B-23, 4.5'</i>		X		<i>10/24/96</i>	<i>10:15</i>			<i>1</i>	X											<i>Need results faxed by Monday 10-28-96</i>
<i>B-24, 4.5'</i>					<i>10:30</i>			<i>1</i>	X											
<i>B-25, 4.5'</i>					<i>10:40</i>			<i>1</i>	X											
<i>S-30, 3'</i>					<i>11:00</i>			<i>1</i>	X											
<i>S-31, 3'</i>					<i>11:05</i>			<i>1</i>	X											
<i>S-32, 3'</i>					<i>11:10</i>			<i>1</i>	X											
<i>B-26, 4.5'</i>					<i>14:10</i>			<i>1</i>	X											
<i>S-33, 3'</i>					<i>16:40</i>			<i>1</i>	X											
<i>S-34, 4'</i>					<i>17:00</i>			<i>1</i>	X											
Relinquished by: (Signature) <i>Jeffrey R. King</i>		Date	Time	Received by: (Signature) <i>Judi Bennett</i>		Relinquished by: (Signature)		Date	Time	Received by: (Signature)										
Relinquished by: (Signature)		Date	Time	Received for Laboratory by: (Signature)		Date	Time	Remarks:												

SMITH

APPENDIX D
GEOTECHNICAL REPORTS



and
**ASSOCIATES,
INCORPORATED**
GEOTECHNICAL • ENVIRONMENTAL &
CONSTRUCTION MATERIALS ENGINEERS

- 5070 W. Pierson Road, FLINT, MI 48504 (810) 230-7676
- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
- 3803 Gembrit Circle, KALAMAZOO, MI 49001 (616) 373-5500
- 26091 Sherwood, Suite 114, WARREN, MI 48091 (810) 754-0200

REPORT NO.

1

FIELD REPORT

PROJECT: City of Ann Arbor Army Reserve

DATE: 10-9-96

CLIENT: Smith Environmental Technology

PROJECT NO.: 61020116

WEATHER: Clear

TEMPERATURE: 60°

RESUME OF WORK ACCOMPLISHED THIS DATE:

This technician arrived at the above referenced job site to collect a Class II sample.

The sample was then transported to our laboratory for proper testing.

All test results will be forwarded as they become available.

TECHNICIAN:

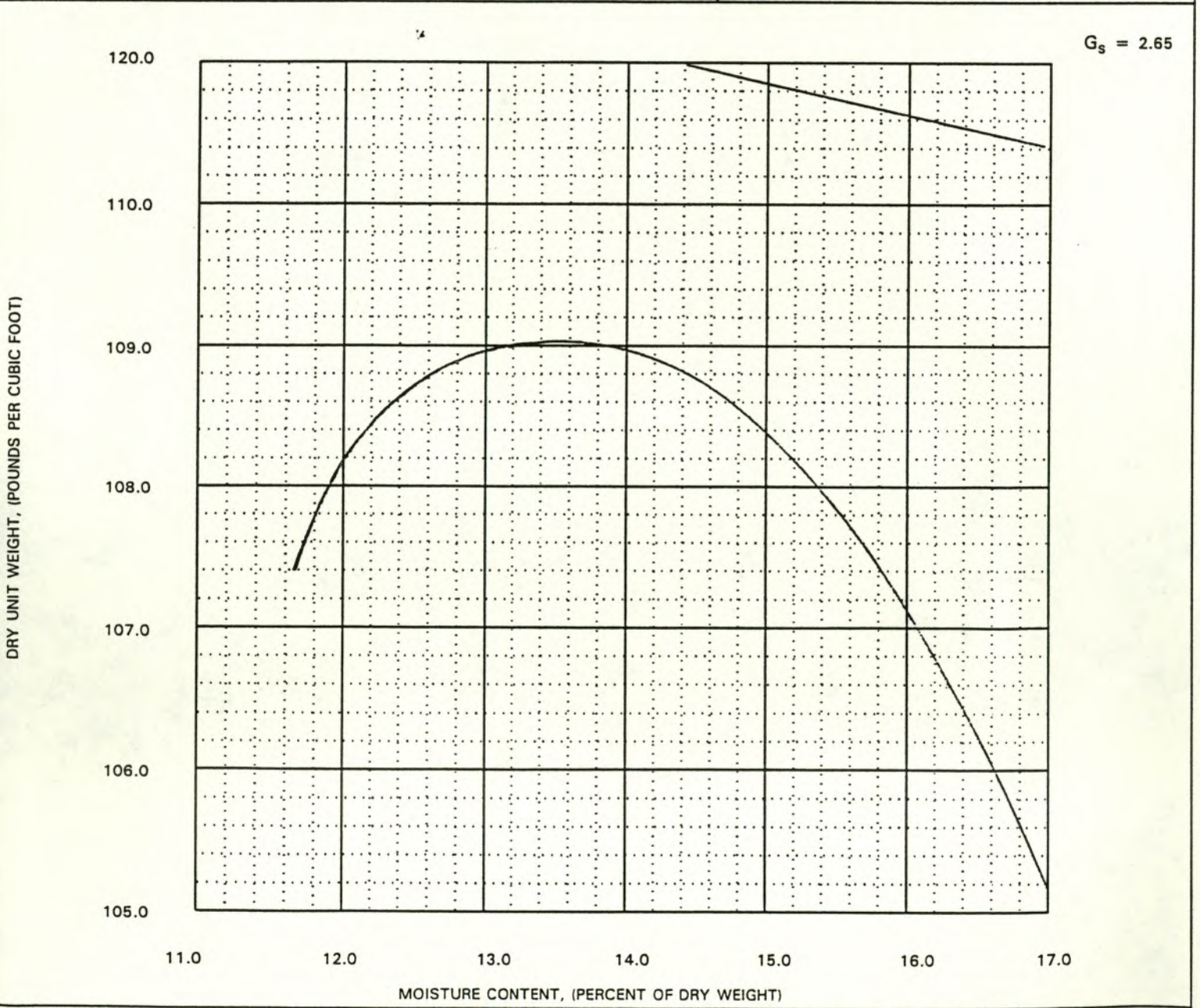
Torrey Bennett



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- 12482 Emerson Drive, BRIGHTON, MI 48116 (810) 486-5100
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- 5070 W. Pierson Road, FLINT, MI 48504 (810) 230-7676

SOIL COMPACTION TEST GRAPH				REPORT NO. 1	
PROJECT Ann Arbor Armory			PROJECT NO. 61020116		
CLIENT Smith Environmental Tech			<input type="checkbox"/> ASTM D-698 <input checked="" type="checkbox"/> ASTM D-1557		METHOD <input type="checkbox"/> A <input type="checkbox"/> C <input checked="" type="checkbox"/> B
TYPE OF SOIL Class II sand			SAMPLE LOCATION On site		
SAMPLED BY T. Bennett	TESTED BY RBF/MY	TEST DATE 10-12-96	SAMPLE NO. 1	SAMPLE DATE 10-9-96	
TYPE OF RAMMER <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> MANUAL			PREPARATION PROCEDURE <input checked="" type="checkbox"/> MOIST <input type="checkbox"/> DRY		



MAXIMUM DENSITY 109.1 #/ft ³	OPTIMUM MOISTURE CONTENT: 13.6 %	NATURAL MOISTURE CONTENT: 11.3 %
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- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
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REPORT NO. 1

SIEVE ANALYSIS (ASTM C117, C136, MTM 108-88, MTM 109-88, D421, D422)									
PROJECT: Ann Arbor Armory			PROJECT NO.: 61020116			DATE: 10-11-96			
CLIENT: Smith Tech.			DATE SAMPLED: 10-9-96			SAMPLE NO.: 1			
SAMPLED OR SAMPLE SUBMITTED BY: T. Bennett					SOURCE: <input checked="" type="checkbox"/> ON-SITE <input type="checkbox"/> PIT				
					On-site				
MEETS SPECIFICATIONS FOR Class II sand					DOES NOT MEET SPECIFICATIONS FOR				
WASHED GRADATION					REMARKS:				
SIEVE NO.	SPEC.	FRACTIONAL WT. RETAINED	FRACTIONAL % RETAINED	CUMULATIVE % PASSING					
3"	100.0				A. Crushed Count <input type="checkbox"/> yes <input checked="" type="checkbox"/> no				
2"					B. Deleterious Particle <input type="checkbox"/> yes <input checked="" type="checkbox"/> no				
1-3/4"					C. Sieve Requirement <input type="checkbox"/> 3/8" <input type="checkbox"/> #4				
1-1/2"					D. Total Test Weight g				
1"	60-100				E. Weight Obviously Crushed				
3/4"					F. Weight Questionable				
1/2"					G. % Crushed				
3/8"		0.0	0.0	100.0	Specification (min.)				
#4		0.8	0.1	99.9	H. Weight Soft Particles				
#8		0.4	0.1	99.8	I. Weight Chert				
#10					J. Weight Coal and Coke				
#16		2.0	0.3	99.5	K. % Soft Particles				
#20					Specification (max.)				
#30		20.2	3.2	96.3	L. % Chert				
#40					Specification (max.)				
#50		160.7	25.6	70.7	M. % Soft Particle and Chert				
#60					Specification (max.)				
#80					N. % Coal and Coke				
#100	0-30	354.9	55.1	15.6	Specification (max.)				
#200		67.1	10.7	4.9	O. Fineness Modulus				
PAN		6.1	4.9		Specification				
Loss By Wash	0-7	15.0		2.4	P. Tare Weight				1407.2
TOTAL SAMPLE		627.2	100.0	0.0	LAB TECHNICIAN: C. Sandon				



- 5070 West Pierson Road, FLINT, MI 48505 (810) 230-7676
- 26091 Sherwood, Suite 114, WARREN, MI 48091 (810) 754-0200
- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
- 1938 Portage Road, KALAMAZOO, MI 49001 (616) 373-5500

REPORT OF FIELD COMPACTION TESTS

REPORT NO. 2

(PAGE 1 OF 1)

PROJECT: City of Ann Arbor Army Reserve	DATE: 10-24-96	PROJECT NO.: 61020116
CLIENT: Smith Environmental Technologies Corp	CONTRACTOR: B & V	
WEATHER: Cloudy	TEMPERATURE RANGE: 50° TO 60° F	
NUCLEAR GAUGE NO: 5368	STD DENS.: 2114	STD MST.: 634
METHOD OF COMPACTION: Static	DENSITY REQUIRED: 95.0%	
TYPE OF FILL REQUIRED: Granular	THICKNESS OF LIFTS REQUIRED: 1'	

TEST NO.	LOCATION	SOIL ID NO.	PROCTOR VALUE Max. / %H ₂ O	DEPTH BELOW FINISHED GRADE	PERCENT MOISTURE	PERCENT COMPACTION
1	15' south of downspout 1' off tower		135.3 / 7.8	2'	7.0	95.2
2	25' southeast of downspout 1' off tower		135.3 / 7.8	2'	6.9	96.3
3	35' southeast of downspout 1' off tower		135.3 / 7.8	2'	6.5	97.6
4	40' southeast of downspout 1' off tower		135.3 / 7.8	2'	6.6	96.2
5	45' southeast of downspout 1' off tower		135.3 / 7.8	2'	6.5	96.3
6	55' southeast of downspout 1' off tower		135.3 / 7.8	2'	7.0	95.6
7	70' southeast of downspout 1' off tower		135.3 / 7.8	2'	8.1	95.6
8	60' southeast of downspout 1' off tower		135.3 / 7.8	2'	7.8	97.5
9	40' southeast of downspout 1' off tower		135.3 / 7.8	2'	6.9	96.3

* DENOTES FAILING TEST

Time on Site	11:00 AM
Overall Location of Fill Placed	Perimeter of water tank (contaminate plane)
Type of Equipment Used For Compaction	Static steel drum roller
Variation in Lift Sizes from that Required	1 foot intervals
Outstanding Failing Test(s)	
Delays Due to Equipment Breakdown	None

TECHNICIAN:

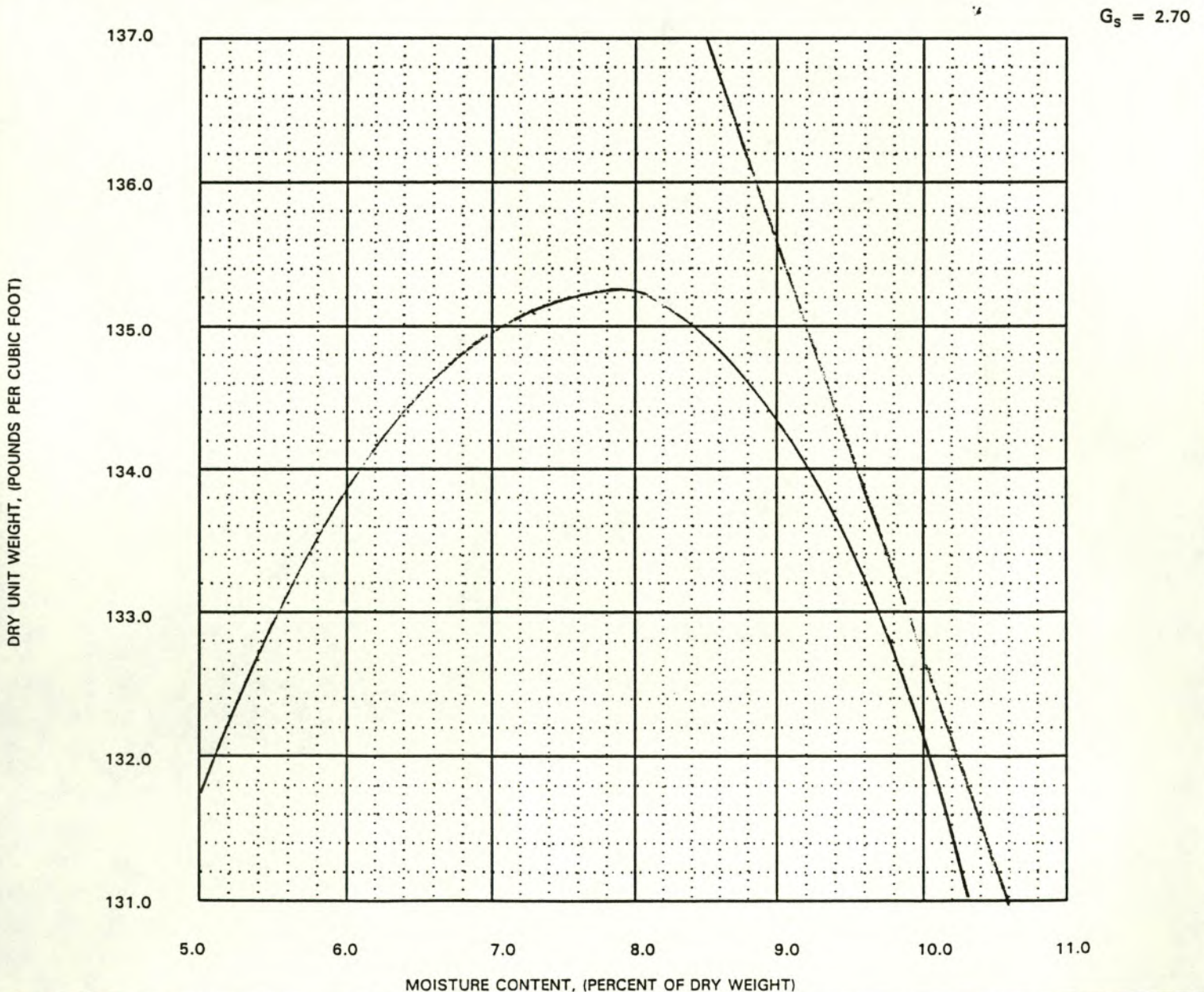
Bill Raitter



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- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
- 3803 Gembrit Circle, KALAMAZOO, MI 49001 (616) 373-5500
- 5070 W. Pierson Road, FLINT, MI 48504 (810) 230-7676

SOIL COMPACTION TEST GRAPH				REPORT NO. 2	
PROJECT Ann Arbor Armory			PROJECT NO. 61020116		
CLIENT Smith Environmental Tech			<input type="checkbox"/> ASTM D-698 <input checked="" type="checkbox"/> ASTM D-1557		METHOD <input type="checkbox"/> A <input type="checkbox"/> C <input checked="" type="checkbox"/> B
TYPE OF SOIL Brown gravely sand with traces of silt and clay			SAMPLE LOCATION On site stockpile		
SAMPLED BY B. Raitter	TESTED BY JC	TEST DATE 10-24-96	SAMPLE NO. 2	SAMPLE DATE 10-24-96	
TYPE OF RAMMER <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> MANUAL			PREPARATION PROCEDURE <input checked="" type="checkbox"/> MOIST <input type="checkbox"/> DRY		



MAXIMUM DENSITY	135.3	#/ft ³	OPTIMUM MOISTURE CONTENT:	7.8	%	NATURAL MOISTURE CONTENT:	5.6	%
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- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
- 3803 Gembrit Circle, KALAMAZOO, MI 49001 (616) 373-5500

REPORT NO. 2

SIEVE ANALYSIS (ASTM C117, C136, MTM 108-88, MTM 109-88, D421, D422)									
PROJECT: Ann Arbor Armory		PROJECT NO.: 61020116		DATE: 10-24-96					
CLIENT: Smith Environmental Tech.		DATE SAMPLED: 10-24-96		SAMPLE NO.: 2					
SAMPLED OR SAMPLE SUBMITTED BY: B. Raitter				SOURCE: <input checked="" type="checkbox"/> ON-SITE <input type="checkbox"/> PIT		On-site stockpile			
MEETS SPECIFICATIONS FOR Class II					DOES NOT MEET SPECIFICATIONS FOR				
WASHED GRADATION					REMARKS:				
SIEVE NO.	SPEC.	FRACTIONAL WT. RETAINED	FRACTIONAL % RETAINED	CUMULATIVE % PASSING					
3"	100	0.0	0.0	100	A. Crushed Count <input type="checkbox"/> yes <input checked="" type="checkbox"/> no				
2"					B. Deleterious Particle <input type="checkbox"/> yes <input checked="" type="checkbox"/> no				
1-3/4"					C. Sieve Requirement <input type="checkbox"/> 3/8" <input type="checkbox"/> #4				
1-1/2"					D. Total Test Weight <input type="checkbox"/> g				
1"	60-100	0.0	0.0	100	E. Weight Obviously Crushed <input type="checkbox"/>				
3/4"		9.7	1.1	98.9	F. Weight Questionable <input type="checkbox"/>				
1/2"		13.0	1.5	97.4	G. % Crushed <input type="checkbox"/>				
3/8"		50.3	5.6	91.8	Specification (min.) <input type="checkbox"/>				
#4		169.0	18.5	73.3	H. Weight Soft Particles <input type="checkbox"/>				
#8		144.9	16.2	57.1	I. Weight Chert <input type="checkbox"/>				
#10					J. Weight Coal and Coke <input type="checkbox"/>				
#16		123.0	13.8	43.3	K. % Soft Particles <input type="checkbox"/>				
#20					Specification (max.) <input type="checkbox"/>				
#30		119.7	13.4	29.9	L. % Chert <input type="checkbox"/>				
#40					Specification (max.) <input type="checkbox"/>				
#50		133.7	15.0	14.9	M. % Soft Particle and Chert <input type="checkbox"/>				
#60					Specification (max.) <input type="checkbox"/>				
#80					N. % Coal and Coke <input type="checkbox"/>				
#100	0-30	61.1	6.8	8.1	Specification (max.) <input type="checkbox"/>				
#200		18.0	2.0	6.1	O. Fineness Modulus <input type="checkbox"/>				
PAN		3.7	6.1		Specification <input type="checkbox"/>				
Loss By Wash	0-7	51.0		5.7	P. Tare Weight				1407.7
TOTAL SAMPLE		893.1	100	0.0	LAB TECHNICIAN: J. Cassar				



- 5070 W. Pierson Road, FLINT, MI 48504 (810) 230-7676
- 26091 Sherwood, Suite 114, WARREN, MI 48091 (810) 754-0200
- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
- 3803 Gembrit Circle, KALAMAZOO, MI 49001 (616) 373-5500

REPORT OF FIELD COMPACTION TESTS

REPORT NO. 3

(PAGE 1 OF 2)

PROJECT: City of Ann Arbor Army Reserve	DATE: 10-26-96	PROJECT NO.: 61020116
CLIENT: Smith Environmental Technologies Corp	CONTRACTOR: B & V Construction	
WEATHER: Overcast	TEMPERATURE RANGE: 53° TO 56° F	
NUCLEAR GAUGE NO: 5323	STD DENS.: 2267	STD MST.: 668
METHOD OF COMPACTION: Roller	DENSITY REQUIRED: 95.0%	
TYPE OF FILL REQUIRED: -	THICKNESS OF LIFTS REQUIRED: 12"	

TEST NO.	LOCATION	SOIL ID NO.	MICHIGAN CONE Maximum Density	DEPTH BELOW FINISHED GRADE	PERCENT MOISTURE	PERCENT COMPACTION
1	9' south of manhole at S-6	M/C1	126		6.5	99.8
2	9' east of manhole at B-1	M/C1	126		7.7	98.9
3	9' north of manhole at S-1	M/C1	126		7.1	99.3
4	12' west of manhole at B-8	M/C1	126		6.7	98.1
5	6' N of tower 27' W of manhole at B-7	M/C1	126		6.8	99.3
6	21' north of tower at S-15	M/C1	126		6.8	99.5
7	3' north of water tank at B-11	M/C2	135		6.1	99.2
8	3' north of water tank at B-12	M/C2	135		5.4	98.5
9	3' north west of water tank at B-17	M/C2	135		5.0	98.2
10	3' west of water tank at B-10	M/C2	135		5.7	98.0

* DENOTES FAILING TEST

REMARKS:

Time on Site 10:00

Overall Location of Fill Placed _____

Type of Equipment Used For Compaction SV500D roller

Variation in Lift Sizes from that Required None

Outstanding Failing Test(s) None

Delays Due to Equipment Breakdown None

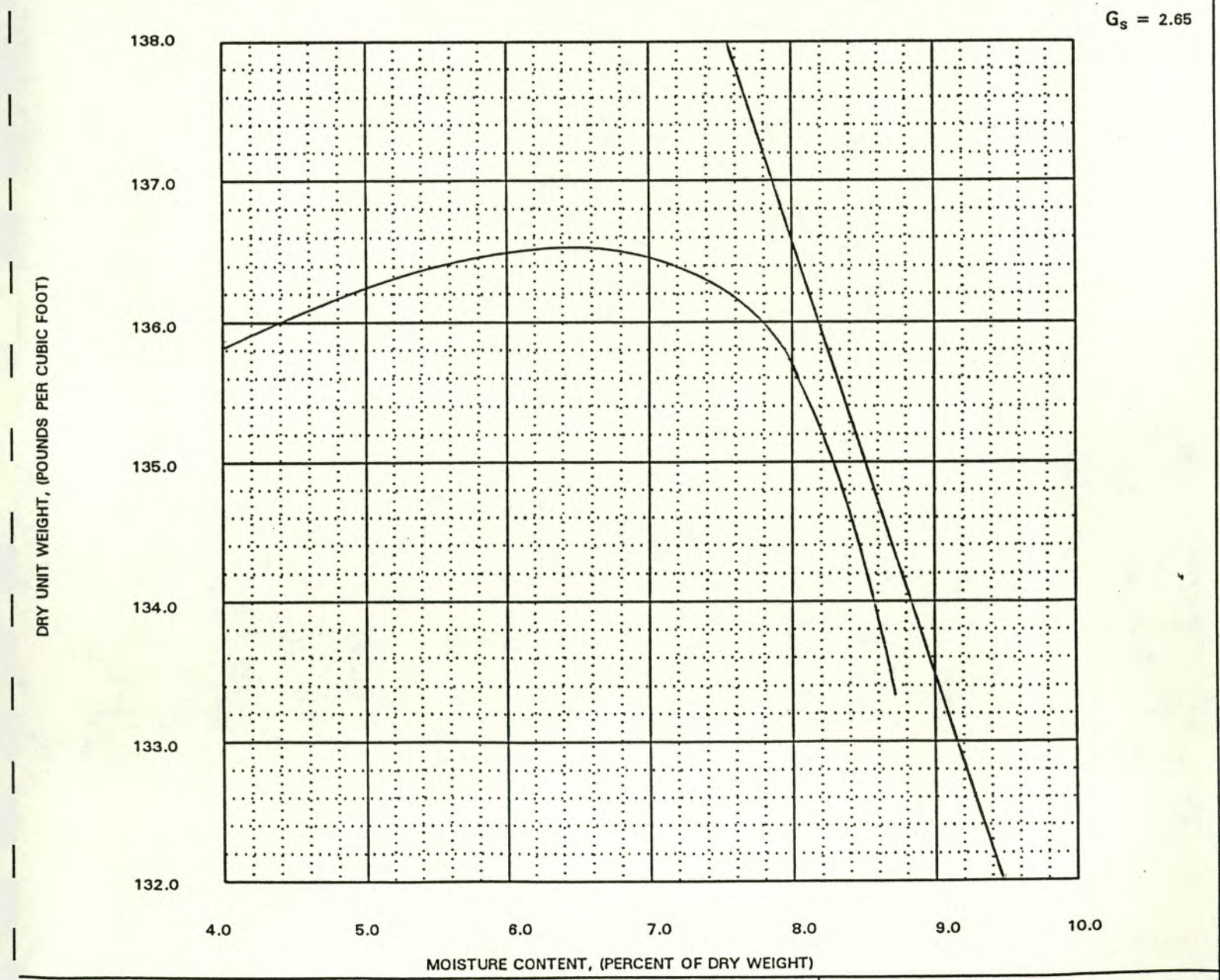
TECHNICIAN: Joe Morgan



and ASSOCIATES, INCORPORATED
 GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS ENGINEERS

- 12482 Emerson Drive, BRIGHTON, MI 48116 (810) 486-5100
- 26091 Sherwood, Suite 114, WARREN, MI 48091 (810) 754-0200
- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
- 3803 Gembrit Circle, KALAMAZOO, MI 49001 (616) 373-5500
- 5070 W. Pierson Road, FLINT, MI 48504 (810) 230-7676

SOIL COMPACTION TEST GRAPH			REPORT NO.	3	
PROJECT Ann Arbor Armory			PROJECT NO.	61020116	
CLIENT Smith Environmental Tech			<input type="checkbox"/> ASTM D-698 <input checked="" type="checkbox"/> ASTM D-1557	METHOD <input type="checkbox"/> A <input checked="" type="checkbox"/> C <input type="checkbox"/> B	
TYPE OF SOIL Brown gravelly sand with trace of silt and clay			SAMPLE LOCATION On site		
SAMPLED BY J. Morgan	TESTED BY J.C.	TEST DATE 10-31-96	SAMPLE NO. 3	SAMPLE DATE 10-26-96	
TYPE OF RAMMER <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> MANUAL			PREPARATION PROCEDURE <input checked="" type="checkbox"/> MOIST <input type="checkbox"/> DRY		



MAXIMUM DENSITY	136.5	#/ft ³	OPTIMUM MOISTURE CONTENT:	6.5	%	NATURAL MOISTURE CONTENT:	4.5	%
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and ASSOCIATES, INCORPORATED
 GEOTECHNICAL, ENVIRONMENTAL &
 CONSTRUCTION MATERIALS ENGINEERS

- 5084 W. Pierson Road, Flint, MI 48504 (810) 230-7676
- 26091 Sherwood, Suite 114, WARREN, MI 48091 (810) 754-0200
- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
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REPORT NO. 3

SIEVE ANALYSIS (ASTM C117, C136, MTM 108-88, MTM 109-88, D421, D422)									
PROJECT: Ann Arbor Army Reserve		PROJECT NO.: 61020116		DATE: 10-30-96					
CLIENT: Smith Environmental Tech		DATE SAMPLED: 10-26-96		SAMPLE NO.: 2					
SAMPLED OR SAMPLE SUBMITTED BY: J. Morgan				SOURCE: <input checked="" type="checkbox"/> ON-SITE		<input type="checkbox"/> PIT			
MEETS SPECIFICATIONS FOR Class II					DOES NOT MEET SPECIFICATIONS FOR				
WASHED GRADATION					REMARKS:				
SIEVE NO.	SPEC.	FRACTIONAL WT. RETAINED	FRACTIONAL % RETAINED	CUMULATIVE % PASSING					
3"	100.0	0.0	0.0	100.0	A. Crushed Count	<input type="checkbox"/>	yes	<input checked="" type="checkbox"/>	no
2"					B. Deleterious Particle	<input type="checkbox"/>	yes	<input checked="" type="checkbox"/>	no
1-3/4"					C. Sieve Requirement	<input type="checkbox"/>	3/8"	<input type="checkbox"/>	#4
1-1/2"					D. Total Test Weight	g			
1"	60-100	0.0	0.0	100.0	E. Weight Obviously Crushed				
3/4"		58.5	7.0	93.0	F. Weight Questionable				
1/2"		128.4	15.2	77.8	G. % Crushed				
3/8"		62.5	7.5	70.3	Specification (min.)				
#4		103.6	12.4	57.9	H. Weight Soft Particles				
#8		66.1	7.9	50.0	I. Weight Chert				
#10					J. Weight Coal and Coke				
#16		64.3	7.7	42.3	K. % Soft Particles				
#20					Specification (max.)				
#30		74.9	9.0	33.3	L. % Chert				
#40					Specification (max.)				
#50		117.0	14.0	19.3	M. % Soft Particle and Chert				
#60					Specification (max.)				
#80					N. % Coal and Coke				
#100	0-30	77.4	9.3	10.0	Specification (max.)				
#200		24.0	2.9	9.1	O. Fineness Modulus				
PAN		3.9	7.1		Specification				
Loss By Wash	0-7	55.5		6.6	P. Tare Weight	1415.8			
TOTAL SAMPLE		836.1	100.0	0.0	LAB TECHNICIAN: JC				



and
**ASSOCIATES,
INCORPORATED**
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CONSTRUCTION MATERIALS ENGINEERS

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- 6400 Jackson Road, ANN ARBOR, MI 48103 (313) 995-3777
- 3803 Gembrit Circle, KALAMAZOO, MI 49001 (616) 373-5500
- 26091 Sherwood, Suite 114, WARREN, MI 48091 (810) 754-0200

REPORT NO.

4

FIELD REPORT

PROJECT:	City of Ann Arbor Army Reserve	DATE:	10-25-96
CLIENT:	Smith Environmental Technologies	PROJECT NO.:	61020116
WEATHER:	Clear, sunny, light wind	TEMPERATURE:	40°- 62°

RESUME OF WORK ACCOMPLISHED THIS DATE:

As requested, this technician arrived at the above referenced project to perform in-place density testing.

In-place density measurements were taken using a nuclear density gauge. Field test results indicate the granular fill has been compacted and the project specifications for compaction have been achieved at today's test locations.

Also today, this technician obtained one granular fill sample and transported it back to our laboratory for further testing.

Test results will be forwarded as they become available.

Please refer to today's Report of Field Compaction for further information.

The client and contractor were informed of all of today's field test results and observations.

TECHNICIAN:

Matthew Kelly



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 GEOTECHNICAL • ENVIRONMENTAL & CONSTRUCTION MATERIALS ENGINEERS

- 5070 W. Pierson Road, FLINT, MI 48504 (810) 230-7676
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REPORT OF FIELD COMPACTION TESTS

REPORT NO. 4

(PAGE 1 OF 1)

PROJECT: City of Ann Arbor Army Reserve	DATE: 10-25-96	PROJECT NO.: 61020116
CLIENT: Smith Environmental Technologies	CONTRACTOR: B & V Construction	
WEATHER: Clear, sunny, light wind	TEMPERATURE RANGE: 40° TO 62° F	
NUCLEAR GAUGE NO: 16653	STD DENS.: 2995	STD MST.: 610
METHOD OF COMPACTION: Static	DENSITY REQUIRED: 95.0%	
TYPE OF FILL REQUIRED: Class II Granular	THICKNESS OF LIFTS REQUIRED: 12"	

TEST NO.	LOCATION	SOIL ID NO.	MICHIGAN CONE Maximum Density	DEPTH BELOW FINISHED GRADE	PERCENT MOISTURE	PERCENT COMPACTION
1	STA B-13 3' N of N side of existing tank	MC/1	126.0	1 ½'	6.3	98.3
2	9' N of N edge of concrete at STA B-13	MC/1	126.0	1'	7.0	98.0
3	30' NW of STA B-18 at SW side of water	MC/1	126.0	1'	6.3	97.6
4	15' E, 9' N of STA B-12 at N side of tank	MC/1	126.0	2 ½'	7.6	98.4
5	18' N of STA B-12 at N side of water tank	MC/1	126.0	2 ½'	6.8	98.2
6	12' N, 21' E of STA B-12 at N side of tank	MC/1	126.0	1 ½'	5.6	98.2
7	21' N and 9' W of B-12 at N side of tank	MC/1	126.0	1 ½'	5.5	99.0
8	9' S of S-1 at N side of water tank	MC/1	126.0	3 ½'	5.5	99.5
9	6' W of B-3 at N side of water tank	MC/1	126.0	2 ½'	6.0	96.2

* DENOTES FAILING TEST

REMARKS:

Time on Site	8:30 a.m.
Overall Location of Fill Placed	North and west side of existing water tank
Type of Equipment Used For Compaction	Vibratory roller
Variation in Lift Sizes from that Required	None
Outstanding Failing Test(s)	None
Delays Due to Equipment Breakdown	None

TECHNICIAN:

Matthew Kelly

SMITH

APPENDIX E
SOIL SHIPPING PAPERS



B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 001

CONSIGNOR

Atsalis Brothers Painting
2000 South Industrial
Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
5011 S. Lilley Road
Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE <i>Ray Atsalis</i>	DATE 10/8/96
CARRIER SIGNATURE <i>Ernie Kuhn #6006</i>	DATE 10-8-96
CONSIGNEE SIGNATURE <i>gmj</i>	DATE 10-8-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 002

CONSIGNOR

Atsalis Brothers Painting
 2000 South Industrial
 Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
 5011 S. Lilley Road
 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE John D. Smith 6001	DATE 10/8/96
CONSIGNEE SIGNATURE 	DATE 10-8-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





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**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 003

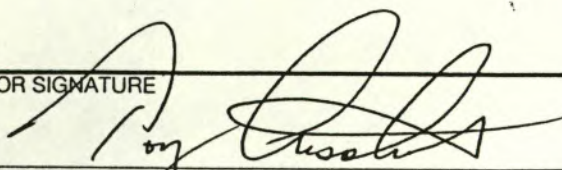
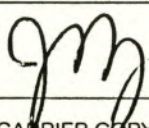
CONSIGNOR

Atsalis Brothers Painting
2000 South Industrial
Ann Arbor, Michigan

CONSIGNEE

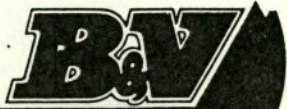
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5011 S. Lilley Road
Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE Roger L. Donald #6004	DATE 10-8-96
CONSIGNEE SIGNATURE 	DATE 10-8-96

WHITE - CONSIGNOR COPY YELLOW - CARRIER COPY PINK - CONSIGNEE COPY





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APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 004

CONSIGNOR

Atsalis Brothers Painting
 2000 South Industrial
 Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
 5011 S. Lilley Road
 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE Ernie Rubin #6006	DATE 10-8-96
CONSIGNEE SIGNATURE 	DATE 10-8-96

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YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





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DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 005

CONSIGNOR

Atsalis Brothers Painting
 2000 South Industrial
 Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
 5011 S. Lilley Road
 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE John P. Lint 6001	DATE 10/8/96
CONSIGNEE SIGNATURE 	DATE 10-8-96

WHITE - CONSIGNOR COPY YELLOW - CARRIER COPY PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(810) 624-0030 FAX (810) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 006

CONSIGNOR

Atsalis Brothers Painting

2000 South Industrial

Ann Arbor, Michigan

CONSIGNEE

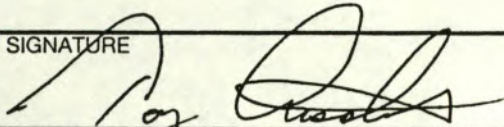
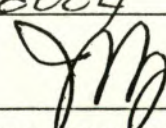
Wayne Disposal - Canton

5011 S. Lilley Road

Canton Township, MI 48188

PRIMARY CARRIER: **B & V CONSTRUCTION, INC.**

QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE Roger A. Donald # 6004	DATE 10-8-96
CONSIGNEE SIGNATURE 	DATE 10-8-96

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YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 007

CONSIGNOR

Atsalis Brothers Painting
 2000 South Industrial
 Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
 5011 S. Lilley Road
 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE #6006	DATE 10-8-96
CONSIGNEE SIGNATURE 	DATE 10-8-96

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PINK - CONSIGNEE COPY





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**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 008

CONSIGNOR

Atsalis Brothers Painting

2000 South Industrial

Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton

5011 S. Lilley Road

Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE 	DATE 10/8/96
CONSIGNEE SIGNATURE 	DATE 10-8-96

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**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 009

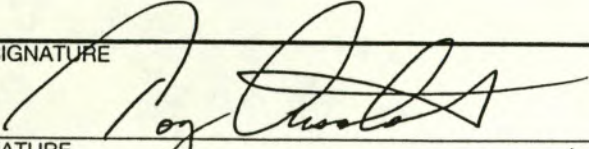
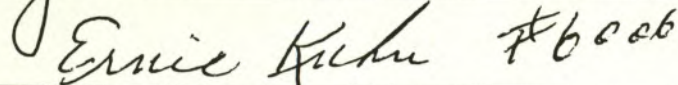
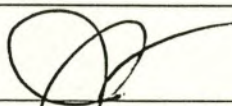
CONSIGNOR

CONSIGNEE

Atsalis Brothers Painting
2000 South Industrial
Ann Arbor, Michigan

Wayne Disposal - Canton
5011 S. Lilley Road
Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE 	DATE 10-8-96
CONSIGNEE SIGNATURE 	DATE 10-8-96

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**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 010

CONSIGNOR

Atsalis Brothers Painting

 2000 South Industrial

 Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton

 5011 S. Lilley Road

 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/8/96
CARRIER SIGNATURE John P. Lindy 6001	DATE 10/8/96
CONSIGNEE SIGNATURE 	DATE 10-8-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96
SHIPPER NO. 011

CONSIGNOR

Atsalis Brothers Painting
 2000 South Industrial
 Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
 5011 S. Lilley Road
 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE <i>Roy Atsalis</i>	DATE <i>10-8-96</i>
CARRIER SIGNATURE <i>Roger Donald #6004</i>	DATE <i>10-8-96</i>
CONSIGNEE SIGNATURE <i>[Signature]</i>	DATE <i>10-8-96</i>

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96 ^{DRE}
SHIPPER NO. 012

CONSIGNOR

Atsalis Brothers Painting
2000 South Industrial
Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
5011 S. Lilley Road
Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

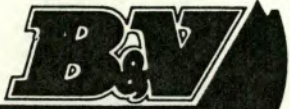
CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE Ernie Kuhn #6006	DATE 10-9-96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





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(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96 ^{DRL}
SHIPPER NO. 013

CONSIGNOR

Atsalis Brothers Painting
2000 South Industrial
Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
5011 S. Lilley Road
Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE John P. Lutz 6001	DATE 10/9/96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96 <i>one</i>
SHIPPER NO. 014

CONSIGNOR

Atsalis Brothers Painting
2000 South Industrial
Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
5011 S. Lilley Road
Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE <i>[Signature]</i>	DATE 10/9/96
CARRIER SIGNATURE Roger #6004	DATE 10-9-96
CONSIGNEE SIGNATURE <i>[Signature]</i>	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96 <i>DR</i>
SHIPPER NO. 015

CONSIGNOR

Atsalis Brothers Painting

2000 South Industrial

Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton

5011 S. Lilley Road

Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE <i>[Signature]</i>	DATE 10/9/96
CARRIER SIGNATURE <i>[Signature]</i> #6009	DATE 10/9/96
CONSIGNEE SIGNATURE <i>[Signature]</i>	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY



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**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96
SHIPPER NO. 016

CONSIGNOR

Atsalis Brothers Painting
2000 South Industrial
Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
5011 S. Lilley Road
Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE Ernie Puhu #6006	DATE 10-9-96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY



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FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96 DM
SHIPPER NO. 017

CONSIGNOR

CONSIGNEE

Atsalis Brothers Painting
 2000 South Industrial
 Ann Arbor, Michigan

Wayne Disposal - Canton
 5011 S. Lilley Road
 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE <i>[Signature]</i>	DATE 10/9/96
CARRIER SIGNATURE <i>[Signature]</i>	DATE 10/9/96
CONSIGNEE SIGNATURE <i>[Signature]</i>	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





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FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96 DM
SHIPPER NO. 018

CONSIGNOR

Atsalis Brothers Painting
 2000 South Industrial
 Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
 5011 S. Lilley Road
 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE <i>[Signature]</i>	DATE 10/9/96
CARRIER SIGNATURE <i>Roger L Donald #6004</i>	DATE 10-9-96
CONSIGNEE SIGNATURE <i>[Signature]</i>	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96 ORR
SHIPPER NO. 019

CONSIGNOR

Atsalis Brothers Painting
 2000 South Industrial
 Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton
 5011 S. Lilley Road
 Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE 	DATE 10/9/96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/08/96 10/9/96 DR
SHIPPER NO. 020

CONSIGNOR

Atsalis Brothers Painting

2000 South Industrial

Ann Arbor, Michigan

CONSIGNEE

Wayne Disposal - Canton

5011 S. Lilley Road

Canton Township, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non- Hazardous Petroleum Contaminated Soil
	C Soil 1
	\$2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE Ernie Kuhn #6006	DATE 10-9-96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





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FAX (313) 624-2817

APPROVAL NO.	100496CA
DATE SHIPPED	10/9/96
SHIPPER NO.	021

NON-HAZARDOUS DISPOSAL RECORD

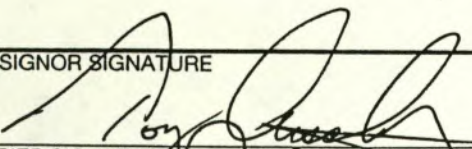
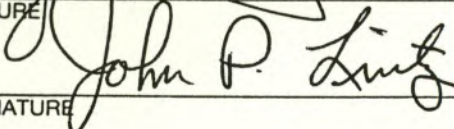
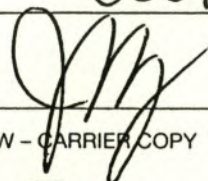
CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 SOUTH INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY RD.
CANTON TOWNSHIP, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	CSOIL 1
	# 2224

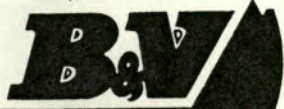
CONSIGNOR SIGNATURE 	DATE 10-9-96
CARRIER SIGNATURE  6001	DATE 10/9/96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





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(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/9/96
SHIPPER NO. 022

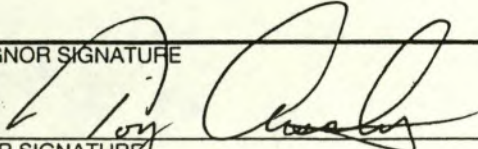
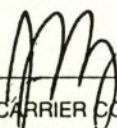
CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 SOUTH INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LIMEY RD
CANTON, TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

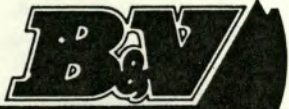
CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE Roger L. Donald #6004	DATE 10-9-96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





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FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO.	100496
DATE SHIPPED	10/9/96
SHIPPER NO.	023

CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 SOUTH INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - Canton
5011 S. LILLEY RD.
CANTON TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE 	DATE 10/9/96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/9/96
SHIPPER NO. 024

CONSIGNOR

ATSALIS BROTHERS PAINTING
 2000 S. INDUSTRIAL
 ANN ARBOR, MI

CONSIGNEE

Wayne Disposal - Canton
 5011 S. LILLEY RD.
 CANTON TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE Eric Kuhn #6006	DATE 10-9-96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/9/96
SHIPPER NO. 025

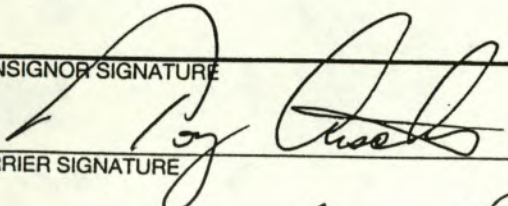

CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY RD
CANTON TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE <u>Roger Donald #6004</u>	DATE 10-9-96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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FAX (313) 624-2817

APPROVAL NO. 100496CA
DATE SHIPPED 10/9/96
SHIPPER NO. 026

**NON-HAZARDOUS
DISPOSAL RECORD**

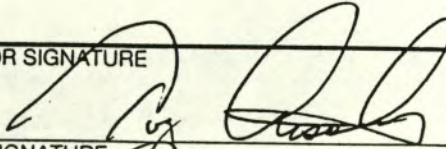
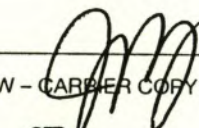
CONSIGNOR

ATKINS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY RD
CANTON, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE John P. Lutz 6001	DATE 10/9/96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496 CA
DATE SHIPPED 10/9/96
SHIPPER NO. 027

CONSIGNOR

ATSALIS BROTHERS PAINTING
 2000 S. INDUSTRIAL
 ANN ARBOR, MI

CONSIGNEE

Wayne Disposal - CANTON
 5011 S. LILLEY RD.
 CANTON, MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL I
	#2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE 	DATE 10/9/96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

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FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496 CA
DATE SHIPPED 10/9/96
SHIPPER NO. 028

CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

Wayne Disposal - Canton
5011 S. LINLEY RD.
CANTON, TWP., MI 48182

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	↳ SOIL 1
	# 2224

CONSIGNOR SIGNATURE 	DATE 10/9/96
CARRIER SIGNATURE Eric Rubin #6006	DATE 10-9-96
CONSIGNEE SIGNATURE 	DATE 10-9-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY



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48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO.	100496CA
DATE SHIPPED	10/10/96
SHIPPER NO.	029

CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
Ann Arbor, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LIVERY.
CANTON TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	Non-Hazardous Petroleum Contaminated Soil
	CSOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/10/96
CARRIER SIGNATURE Eric Ruhn #6006	DATE 10-10-96
CONSIGNEE SIGNATURE 	DATE 10-10-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/10/96
SHIPPER NO. 030

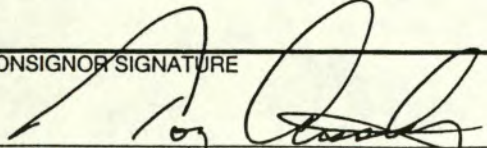
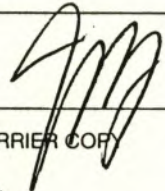
CONSIGNOR

ATISALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY
CANTON, TWP. MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C. SOIL 4
	# 2224

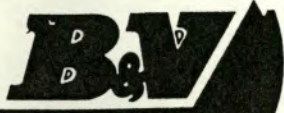
CONSIGNOR SIGNATURE 	DATE 10/10/96
CARRIER SIGNATURE Roger A. Donald #6004	DATE 10-10-96
CONSIGNEE SIGNATURE 	DATE 10-10-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

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(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/10/96
SHIPPER NO. 031

CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
Ann Arbor, MI

CONSIGNEE

Wayne Disposal Canton
5011 S. Liley Rd
Canton Twp., MI 48108

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	CSOL 1
	#2224

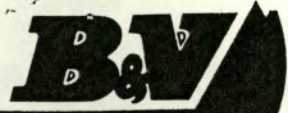
CONSIGNOR SIGNATURE 	DATE 10/10/96
CARRIER SIGNATURE Ernie Kuhn #6006	DATE 10-10-96
CONSIGNEE SIGNATURE 	DATE 10-10-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/10/96
SHIPPER NO. 032

CONSIGNOR

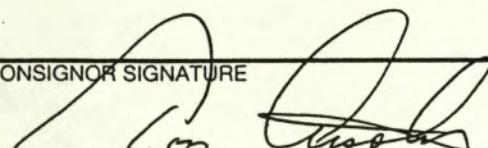
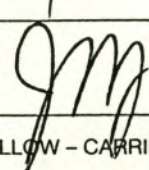
ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY RD
CANTON TWP, MI 48188

PRIMARY CARRIER: **B & V CONSTRUCTION, INC.**

QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/10/96
CARRIER SIGNATURE Roger L. Donald	DATE 10-10-96
CONSIGNEE SIGNATURE 	DATE 10-10-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 170496CA
DATE SHIPPED 10/10/96
SHIPPER NO. 033

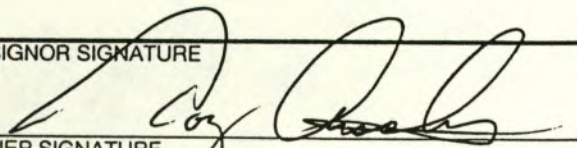
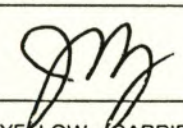
CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY RD.
CANTON, TWP., MI 48108

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
2.8	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/10/96
CARRIER SIGNATURE Ernie Kuhn #6006	DATE 10-10-96
CONSIGNEE SIGNATURE 	DATE 10-10-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY



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B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO.	100496 CA
DATE SHIPPED	10/10/96
SHIPPER NO.	034

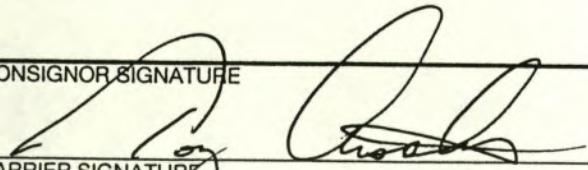
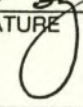
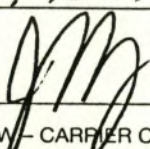
CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY RD.
CANTON, TWP., MI 48108

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	# 2224

CONSIGNOR SIGNATURE 	DATE 10/10/96
CARRIER SIGNATURE 	DATE 10-10-96
CONSIGNEE SIGNATURE 	DATE 10-10-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO.	100496 CA
DATE SHIPPED	10/10/96
SHIPPER NO.	035

CONSIGNOR

ATALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY ROAD
CANTON TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C/SOIL 1
	# 2224

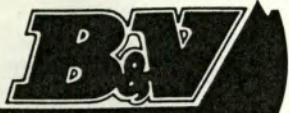
CONSIGNOR SIGNATURE		DATE	10/10/96
CARRIER SIGNATURE	Ernie Kuhn #6006	DATE	10-10-96
CONSIGNEE SIGNATURE		DATE	10-10-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 6070, Wixom, MI 48393-6070

(313) 624-0030

FAX (313) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/10/96
SHIPPER NO. 036

CONSIGNOR

ATSALIS BROTHERS PAINTING
1000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 S. LILLEY RD.
CANTON TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	Q SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/10/96
CARRIER SIGNATURE Roger L. Donald #6004	DATE 10-10-96
CONSIGNEE SIGNATURE 	DATE 10-10-96

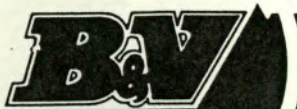
WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY



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48400 West Road, P.O. Box 930029, Wixom, MI 48393-0029

(810) 624-0030 FAX (810) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496 CA
DATE SHIPPED 10/24/96
SHIPPER NO. 037

CONSIGNOR

ATSALIS BROTHERS PAINTING
 2000 S. INDUSTRIAL
 ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL ~~CANTON~~
 5011 S. LILLY
 CANTON TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
40	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	# 2224

CONSIGNOR SIGNATURE <i>Ray Daniels</i>	DATE 10/24/96
CARRIER SIGNATURE <i>Ray Daniels #6021</i>	DATE 10/24/96
CONSIGNEE SIGNATURE <i>[Signature]</i>	DATE 10-24-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.
48400 West Road, P.O. Box 930029, Wixom, MI 48393-0029
(810) 624-0030 FAX (810) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/24/96
SHIPPER NO. 038

CONSIGNOR
ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE
Wayde Disposal - Canton
5011 S. LILLEY
CANTON TWP., MI 48108

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
40	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/24/96
CARRIER SIGNATURE 	DATE 10/24/96
CONSIGNEE SIGNATURE 	DATE 10-24-96

WHITE - CONSIGNOR COPY YELLOW - CARRIER COPY PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 930029, Wixom, MI 48393-0029

(810) 624-0030 FAX (810) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/24/96
SHIPPER NO. 039

CONSIGNOR

ATSALAI'S BROTHERS PAINTING
 2000 S. INDUSTRIAL
 ANN ARBOR, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
 5011 S. LILLEY
 CANTON Twp., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
40	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	CSOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/24/96
CARRIER SIGNATURE 	DATE 10/24/96
CONSIGNEE SIGNATURE 	DATE 10-24-96

WHITE - CONSIGNOR COPY YELLOW - CARRIER COPY PINK - CONSIGNEE COPY





B&V Environment Services Div.
48400 West Road, P.O. Box 930029, Wixom, MI 48393-0029
(810) 624-0030 FAX (810) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO.	100496 CA
DATE SHIPPED	10/25/96
SHIPPER NO.	040

CONSIGNOR
ATSALLS BROTHERS PAINTING
2000 S. INDUSTRIAL
Ann Arbor, MI

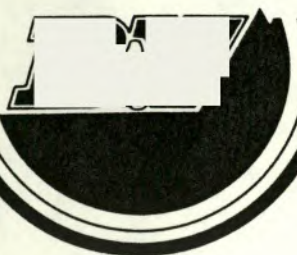
CONSIGNEE
WAYNE DISPOSAL - CANTON
5011 LILLEY RD
CANTON TWP., MI 48188

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
28	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10/25/96
CARRIER SIGNATURE Eric G... #6006	DATE 10-25-96
CONSIGNEE SIGNATURE 	DATE 10-25-96

WHITE - CONSIGNOR COPY YELLOW - CARRIER COPY PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 930029, Wixom, MI 48393-0029

(810) 624-0030 FAX (810) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496 CA
DATE SHIPPED 10/25/96
SHIPPER NO. 041

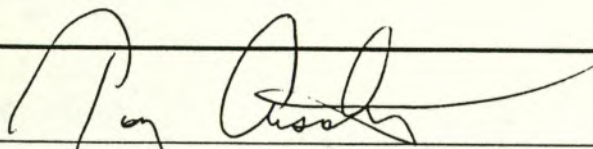
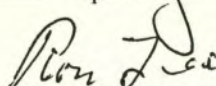
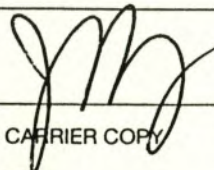
CONSIGNOR

ATSALAI BROTHERS PAINTING
2000 S. INDUSTRIAL
ANN ARBOR, MI

CONSIGNEE

WAYDE DISPOSAL - CANTON
5011 S. LILLEY
CANTON TWP., MI

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
40	NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL
	C SOIL 1
	#2224

CONSIGNOR SIGNATURE 	DATE 10-25-96
CARRIER SIGNATURE  #6026	DATE 10-25-96
CONSIGNEE SIGNATURE 	DATE 10-25-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY





B&V Environment Services Div.

48400 West Road, P.O. Box 930029, Wixom, MI 48393-0029

(810) 624-0030 FAX (810) 624-2817

**NON-HAZARDOUS
DISPOSAL RECORD**

APPROVAL NO. 100496CA
DATE SHIPPED 10/25/96
SHIPPER NO. 042

CONSIGNOR

ATSALIS BROTHERS PAINTING
2000 S. INDUSTRIAL
ADL ANSON, MI

CONSIGNEE

WAYNE DISPOSAL - CANTON
5011 LILLEY RD.
CANTON TWP., MI

PRIMARY CARRIER: B & V CONSTRUCTION, INC.	
QTY. IN CUBIC YARDS	DESCRIPTION OF NON-HAZARDOUS WASTE
40	NON-HAZARDOUS PETROLEUM IMPACTED SOIL
	CSOIL 4
	#2224

CONSIGNOR SIGNATURE 	DATE 10/25/96
CARRIER SIGNATURE 	DATE 10-25-96
CONSIGNEE SIGNATURE 	DATE 10-25-96

WHITE - CONSIGNOR COPY

YELLOW - CARRIER COPY

PINK - CONSIGNEE COPY



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SMITH

APPENDIX F

LIQUID WASTE MANIFESTS

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

1969.
 Failure to file is punishable under
 section 299.548 MCL or Section 10 of
 Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

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 TED T
 T BE
 SPIL
 CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M I G 0 0 0 0 4 6 6 5 0		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address ATSA LIS BROTHERS PAINTING 22189 E. 14 MILE RD. CLINTON TWP., MI 48035		A. State Manifest Document Number MI 4025191		B. State Generator's ID		C. State Transporter's ID		D. Transporter's Phone 313-941-5812	
4. Generator's Phone (810) 790-0123 Tony Atsalakis		5. Transporter 1 Company Name SUBURBAN OIL CO.		6. US EPA ID Number M I D 0 7 9 8 7 4 6 5 3		E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Designated Facility Name and Site Address DEARBORN REFINING 3901 WYOMING DEARBORN, MI 48120		10. US EPA ID Number M I D 0 0 5 5 1 0 8 0 5		G. State Facility's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No. N/H	
a. waste water + Diesel fuel		001 RT 2000 G		019 LN					
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above		a/ /		b/ /		c/ /	
				d/ /					
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name TONY ATSAKAKIS		Signature 		Date 09/17/96					
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name MATT HIGGINS		Signature 		Date 09/17/96			
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name		Signature		Date			

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
 ATT. DIS. REJ. PR.

1979, as amended and Act 136, PA. 1969
 Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, PA. 1969

Form Approved. OMB No. 2050-0039 Expires 9-30-94

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M I G 0 0 0 0 4 6 6 5 0		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address ATSALIS BROTHERS PAINTING 22189 E. 14 MILE RD. CLINTON TOWNSHIP, MI, 48035						A. State Manifest Document Number MI 3110072							
4. Generator's Phone ()						B. State Generator's ID							
5. Transporter 1 Company Name DRC			6. US EPA ID Number			C. State Transporter's ID							
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone							
9. Designated Facility Name and Site Address DEARBORN REFINING COMPANY 3901 WYOMING AVE. DEARBORN, MI, 48120			10. US EPA ID Number M I D 0 0 5 5 1 0 8 0 5			E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). a. WATER AND OIL						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No. N/H	
						0 1 A D R.		1 1 0 0		G A L			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above LIQUID WASTE						K. Handling Codes for Wastes Listed Above				a/ /			
										b/ /			
										c/ /			
										d/ /			
15. Special Handling Instructions and Additional Information													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name X GEORGE ATSALAKIS						Signature X <i>[Signature]</i>				Date Month Day Year 11 04 96			
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature				Date			
Printed/Typed Name						Signature				Date			
18. Transporter 2 Acknowledgement or Receipt of Materials						Signature				Date			
Printed/Typed Name X ROGER CHANDLER						Signature X <i>[Signature]</i>				Date Month Day Year 11 04 96			
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										Date			
Printed/Typed Name						Signature				Date			

SPON 14110 50 AN AT 51 JT OF 92-476 AN AT 4, IN ITING GENI LUTIC CHIG D TO BE R SPILL CENTER AT 1-800-424-9802 24 HOURS PER DAY FACILITY

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
 ATT. DIS. REJ. PR.

1979, as amended and Act 136, P.A. 1969.
 Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>MI000046650</i>	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <i>ATSALIS Bros. Painting 22189 E. 14 mile rd. Clinton Twp. MI 48035</i>		A. State Manifest Document Number <i>MI 4025244</i>		B. State Generator's ID		
4. Generator's Phone ()	5. Transporter 1 Company Name <i>Suburban oil</i>		6. US EPA ID Number <i>MI00079874653</i>	C. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address <i>Dearborn Refining 3901 Wyoming Dearborn MI 48120</i>		10. US EPA ID Number <i>MI0005516505</i>		E. State Transporter's ID		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).		12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol	I. Waste No. N/H
a. <i>rain water from Exc. Hole</i>		<i>001 TT</i>		<i>3500 G</i>	<i>0.294 L</i>	
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		a/ / b/ / c/ / d/ /
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name <i>TONY ASACAKIS</i>		Signature <i>[Signature]</i>		Date <i>10/09/96</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <i>MATT HIGGINS</i>		Signature <i>[Signature]</i>		Date <i>10/09/96</i>
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date
Printed/Typed Name		Signature		Date		

ENCLOSURE SYSTEM, IN COMPLIANCE WITH THE HAZARDOUS WASTE RESPONSE ACT OF 1980 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
 ATT. DIS. REJ. PR.

1979, as amended and Act 136, P.A. 1969.
 Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M I G 0 0 0 0 4 6 6 5 0		Manifest Document No. 98312		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address ATSALIS BROTHERS PAINTING 22189 E. 14 MILE ROAD CLINTON TOWNSHIP, MI. 48035						A. State Manifest Document Number MI 4008512					
4. Generator's Phone ()						B. State Generator's ID					
5. Transporter 1 Company Name ENMANCO, INC.			6. US EPA ID Number M I D 9 8 0 6 8 1 6 2 1			C. State Transporter's ID					
7. Transporter 2 Company Name						D. Transporter's Phone (810)731-3130					
9. Designated Facility Name and Site Address DEARBORN REFINING CO. 3401 WYOMING AVE. DEARBORN, MI. 48120						10. US EPA ID Number M I D 0 0 5 5 8 1 8 0 6			E. State Transporter's ID		
						F. Transporter's Phone					
						G. State Facility's ID					
						H. Facility's Phone (313)843-1704					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol	I. Waste No. N/H	
a. NON REGULATED MATERIAL						001 T T 01800		G	029 L	N	
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above a) WATER & OIL						K. Handling Codes for Wastes Listed Above			a/ /		
									b/ /		
									c/ /		
									d/ /		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE #(810)731-3130											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name Nick HSAANKS						Signature <i>Nick Hsaank</i>			Date 10/10/96		
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name THOMAS WILEY			Signature <i>Thomas Wiley</i>		
									Date 10/10/96		
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature		
									Date		
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name						Signature			Date		
									Month Day Year		

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 G E N E R A T O R
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 C H I G /
 D T O
 B E R
 I P I L L S
 C E N T E R A T 1-800-424-8802 24 HOURS PER DAY.
 F A C I L I T Y



ENMANCO
KEEPING NATURE & INDUSTRY IN BALANCE
UTICA, MI
(810) 731-3130

DAILY JOB REPORT

24 HOUR SERVICE

JOB # 19267 EMP. # 65 NAME THOMAS WILEY DATE 9-10-96

OFFICE USE ONLY

FIRM
ATSALIS BROTHERS PAINTING
22189 E 14 MILE RD

JOB#	ST	OT	OTHER	TOTAL	MISC. EXP.

MANIFEST #

SHIPPER #

MI 400 8512

EQUIPMENT	START	FINISH	TOTAL	DISPOSAL IN	DISPOSAL OUT
<u># 7</u>	<u>06:20</u>				

DEMURRAGE DUE TO: _____

STARTING MILEAGE 070945

ENDING MILEAGE _____

DROP ROLL-OFF BOX # _____

PICK-UP ROLL-OFF BOX # _____

DISPOSAL SITE	DESCRIPTION	AMOUNT	DUMP #
<u>DEARBORN REFINING</u>	<u>NON REGULATED MATERIAL</u>	<u>1800 G</u>	

ENTER AMOUNT

CHECK IF APPLIES

OTHER

- TYVEK SUITS SORBENT PADS AIR EQUIPMENT _____
- GLOVES SORBENT BOOM SAFETY GEAR _____
- BOOTS _____ TRASH PUMP _____
- PETTY CASH _____ OVERNIGHT _____

JOB DESCRIPTION: PUMP OIL + WATER FROM HOLE IN THE GROUND BY TANK
ON SITE 08:40 - 13:15

Thomas Wiley
EMPLOYEE

THE ENVIRONMENTAL
MANAGEMENT PEOPLE

[Signature]
COMPANY REPRESENTATIVE

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MIG00000466502096		Manifest Document No. 4 of 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator Name and Mailing Address MYSALIS BROS. PAINTING 22189 E. 14 MILE RD. CLINTON TWP. MI 48035						A. State Manifest Document Number MI 4520964							
4. Generator's Phone ()						B. State Generator's ID							
5. Transporter 1 Company Name GEODYNAMIC IND.			6. US EPA ID Number MID985651363			C. State Transporter's ID							
7. Transporter 2 Company Name						D. Transporter's Phone 313-432-1234							
8. US EPA ID Number						E. State Transporter's ID							
9. Designated Facility Name and Site Address DEARBORN REFINING 3901 WYOMING DEARBORN, MI 48120						F. Transporter's Phone							
10. US EPA ID Number MID005510805						G. State Facility's ID							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. RAIN WATER FROM EXE. HOLE						No. Type 001 TT		06300 G		029 LN		N/H	
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
						a/ / b/ / c/ / d/ /							
15. Special Handling Instructions and Additional Information													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name TOM ASALAKO						Signature <i>[Signature]</i>						Date Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature <i>[Signature]</i>						Date Month Day Year 11/21/96	
Printed/Typed Name BRIAN LYLE						Signature <i>[Signature]</i>						Date Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature						Date Month Day Year	
Printed/Typed Name						Signature						Date Month Day Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name						Signature						Date Month Day Year	

SP01... NATIC ...60 AT... T OF ... AT ... IN W ... NG ... 3ENC ... UTIO ... HIGA ... D TO ... BE RI ... CENTER AT 1-800-424-8802 24 HOURS PER DAY. ... FACILITY

GEOdynamic Industries, Incorporated

12853 Levan
Livonia, MI 48150
(313) 432-1234 • FAX (313) 432-7919

PAGE NO.	WORK ORD. NO.	CANCELLATION DATE	CUST. NO.
1	06053	/ /	DEA02

WORK ORDER

DEARBORN REFINING
3901 WYDMING
DEARBORN, MI 48120

J
O
B
S
I
T
E

ATSALIS BROS. PAINTING
22189 E. 14 MILE RD.
CLINTON TWP., MI 48035

ORDER DATE	CUSTOMER P.O. NO.	DRIVER	VEHICLE	TERMS
10/21/96		<i>[Signature]</i>	116 8-1	Net 30
SPOSAL FACILITY	SCHEDULED DATE	LOCATION	START TIME	FINISH TIME
	10/22/96		6:15	
DESCRIPTION	QUANTITY ORDERED	QUANTITY SHIPPED	LDD	
TRANSPORT/DISPOSE WASTE WATER				
TODAY'S DATE: 10-24-96	9285	6300		
TIME IN: 7:30	9321			
TIME OUT: _____				
DELAYS: _____				
TIME IN DISPOSAL FACILITY: _____				
TIME OUT DISPOSAL FACILITY: _____				
MANIFEST #: 4520964				
MILEAGE: _____				
ODOMETER READING: _____				
DRIVER'S SIGNATURE: <i>[Signature]</i>				
CUSTOMER'S SIGNATURE: <i>[Signature]</i>				

WORK ORDER NO. 06053

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
 ATT. DIS. REJ. PR.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>MIG000046650</i>		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address <i>ATSAIS Bros. 22189 E. 14. mile Clinton Twp. MI 48035</i>						A. State Manifest Document Number <i>MI 4025250</i>		B. State Generator's ID									
4. Generator's Phone ()						6. US EPA ID Number		C. State Transporter's ID									
5. Transporter 1 Company Name <i>Suburban oil</i>						6. US EPA ID Number <i>MI0001874653</i>		D. Transporter's Phone									
7. Transporter 2 Company Name						8. US EPA ID Number		E. State Transporter's ID									
9. Designated Facility Name and Site Address <i>Dearborn Refining 3901 Wyoming Dearborn MI 48120</i>						10. US EPA ID Number <i>MI00005510805</i>		G. State Facility's ID									
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No. N/H					
a. <i>Rain water from EX. Hole</i>						<i>001111</i>		<i>1800 G</i>		<i>029K</i>		<i>W</i>					
b.																	
c.																	
d.																	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above				a/ / -		b/ /		c/ /		d/ /	
15. Special Handling Instructions and Additional Information																	
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Printed/Typed Name <i>Toni Anderson</i>						Signature <i>Toni Anderson</i>				Date <i>10/24/96</i>		Month Day Year					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name <i>Matt Higgins</i>				Signature <i>Matt Higgins</i>				Date <i>10/24/96</i>		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name				Signature				Date		Month Day Year	
19. Discrepancy Indication Space																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.																	
Printed/Typed Name						Signature				Date		Month Day Year					

GEOdynamic Industries Incorporated

an earth services company

JOB
WORK
ORDER

9114

Merrillwood Building • 251 Merrill Street • Birmingham, MI 48009
Phone 810-642-3436 • FAX 810-642-3438

		DATE OF ORDER 10/21/96
JOB #	MANIFEST # 4513856	STARTING TIME
CUSTOMER ATLAS Bros.		ENDING TIME
JOB SITE		
ADDRESS 22189 E. 17 MILE		
CITY CLINTON TWP	STATE MI	ZIP 48035
DESCRIPTION OF WORK:		

2,000 GAL

VEHICLE/EQUIPMENT #	START TIME	END TIME	START ODOMETER	END ODOMETER	FUEL
DEAR. REF.	11:30		9357		
ATLAS	12:30	2:30	9891		

MATERIAL:

authorized to sign by Tony Atsalakis

Approved By (Print):	Approved By (Signature): <i>Tony Atsalakis</i>
Employee Name:	Signature: <i>[Signature]</i>

I HEREBY ACKNOWLEDGE THE SATISFACTORY COMPLETION OF THE ABOVE DESCRIBED WORK.

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

Part 121 of Act 451, 1994, as amended.
Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI1G000046650113855		Manifest Document No. 13855		2. Page 1 of		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address Atsalis Brothers Painting 22189 E. Fourteen Mile Rd. Clinton Township, MI 48035						A. State Manifest Document Number MI 4513855		B. State Generator's ID							
4. Generator's Phone (810) 740-0123						C. State Transporter's ID		D. Transporter's Phone (810) 731-3130							
5. Transporter 1 Company Name ENMANCO, INC.			6. US EPA ID Number MI1D9806816211			E. State Transporter's ID		F. Transporter's Phone							
7. Transporter 2 Company Name						8. US EPA ID Number		G. State Facility's ID							
9. Designated Facility Name and Site Address Dearborn Refining Co. 3401 Wyoming Ave. Dearborn, MI 48120						10. US EPA ID Number MI1D0005581806		H. Facility's Phone (313) 843-1704							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). a. NON REGULATED MATERIAL						12. Containers No. Type 001 TT		13. Total Quantity 03900 G		14. Unit Wt/Vol G		I. Waste No. N/H 029 L N			
b.															
c.															
d.															
J. Additional Descriptions for Materials Listed Above WATER AND OIL						K. Handling Codes for Wastes Listed Above		a/ /		b/ /		c/ /		d/ /	
15. Special Handling Instructions and Additional Information Emergency Phone# (810) 731-3130															
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Printed/Typed Name TONY ATSAKAKIS						Signature Authorized to sign by Tony Atsalakis			Date 10/25/96						
17. Transporter 1 Acknowledgement of Receipt of Materials															
Printed/Typed Name JOHN J. HIRSHMANN JR.						Signature			Date 10/25/96						
18. Transporter 2 Acknowledgement of Receipt of Materials															
Printed/Typed Name						Signature			Date						
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name						Signature			Date						

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 SPILL
 CENTER AT 1-800-424-8802 24 HOURS PER DAY
 FACILITY



ENMANCO
KEEPING NATURE & INDUSTRY IN BALANCE
UTICA, MI
(810) 731-3130

DAILY JOB REPORT

24 HOUR SERVICE

JOB # _____ EMP. # 69 NAME John Hirschmann JR DATE 10-25-96

OFFICE USE ONLY

FIRM ATS/IS BRUS. PAINTING

JOB#	ST	OT	OTHER	TOTAL	MISC. EXP.

MANIFEST # _____

SHIPPER # _____

EQUIPMENT	START	FINISH	TOTAL	DISPOSAL IN	DISPOSAL OUT
<u>31-14T-69 m.h.</u>	<u>0900</u>				

DEMURRAGE DUE TO: _____

STARTING MILEAGE 191020

ENDING MILEAGE _____

DROP ROLL-OFF BOX # _____

PICK-UP ROLL-OFF BOX # _____

DISPOSAL SITE	DESCRIPTION	AMOUNT	DUMP #
<u>DEARBORN REFINING</u>	<u>NON-HAZ OIL CONTAMINATED H₂O</u>	<u>39M G</u>	

ENTER AMOUNT

CHECK IF APPLIES

OTHER

- TYVEK SUITS
- GLOVES
- BOOTS
- PETTY CASH

- SORBENT PADS
- SORBENT BOOM

- AIR EQUIPMENT
- SAFETY GEAR
- TRASH PUMP
- OVERNIGHT

JOB DESCRIPTION:

Pump out H₂O from Hdr 2
HAUL TO DISPOSAL

ON SITE 1000-1405

EMPLOYEE

THE ENVIRONMENTAL
MANAGEMENT PEOPLE

Atty P. 162
COMPANY REPRESENTATIVE

SMITH

APPENDIX G

NOVEMBER 5, 1996 TRANSMITTAL TO MDEQ

November 5, 1996

Ms. Vicki Katko
Michigan Department of Environmental Quality
Environmental Response Division
Jackson State Office Building
301 E. Louis Glick Hwy.
Jackson, Michigan 49201

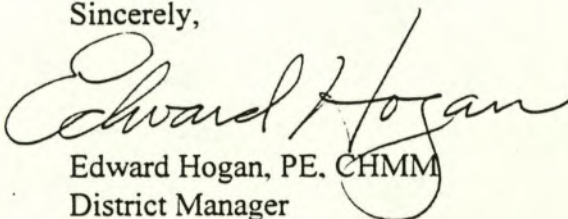
SUBJECT: Alsalis Diesel Fuel Spill
2000 S. Industrial, Ann Arbor, Michigan
Smith Environmental Project No. 05-8030-20

Dear Ms. Katko:

In preparation for our project status meeting scheduled for Wednesday, November 13, 1996, I am forwarding for your information a drawing depicting the extent of site remediation and location of excavation and closure samples. Supporting this drawing are two tables presenting the results of laboratory analyses of samples collected following the initial site remediation (Table 1) and the results of analysis performed on samples collected subsequent to the supplemental site remediation (Table 2), representing closure samples.

If you have any questions regarding the information presented herein, please don't hesitate to call either Jeff King or Ed Hogan.

Sincerely,


Edward Hogan, PE, CHMM
District Manager

attachments

cc: Mr. Sumedh Bahl, City of Ann Arbor
Ms. Stephanie Chrisman, REMSA
Mr. Richard Connors, Plunkett & Cooney

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
S-1, 5'	None Detected	NA
S-2, 4'	None Detected	NA
S-5, 5'	None Detected	NA
B-1, 8'	None Detected	NA
B-2, 8'	None Detected	NA
S-6, 4'	None Detected	NA
S-7, 5'	None Detected	NA
B-3, 8'	None Detected	NA
S-10, 2'	None Detected	NA
B-7, 4'	None Detected	NA
S-12, 3'	1,300 ug/kg benzo (g,h,i) perylene	1,500,000
S-15, 3'	400 ug/kg benzo (g,h,i) perylene	1,500,000
S-18, 3'	None Detected	NA
S-19, 3'	None Detected	NA
B-8, 5'	None Detected	NA
B-9, 4'	None Detected	NA
S-20, 3'	2,000 ug/kg naphthalene	5,200
	* 900 ug/kg acenaphthylene	520
	3,800 ug/kg acenaphthene	26,000
	* 1,700 ug/kg phenanthrene	520
	600 ug/kg anthracene	150,000
	7,000 ug/kg fluoranthene	18,000
	1,400 ug/kg benzo (a) anthracene	14,000
	1,100 ug/kg benzo (b) fluoranthene	14,000
	* 1,700 ug/kg benzo (a) pyrene	1,400
	3,800 ug/kg benzo (g,h,i) perylene	1,500,000
B-10, 4'	None Detected	NA
S-21, 3'	None Detected	NA

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
B-11, 3'	560 ug/kg benzo (a) anthracene	14,000
	580 ug/kg chrysene	1,400,000
	440 ug/kg benzo (b) fluoranthene	14,000
	540 ug/kg benzo (a) pyrene	1,400
B-12, 4'	Jar broken during transport by lab	NA
B-13, 4'	2,300 ug/kg naphthalene	5,200
	1,500 ug/kg acenaphthene	26,000
	* 810 ug/kg phenanthrene	520
	780 ug/kg fluoranthene	18,000
	1,200 ug/kg pyrene	11,000
	500 ug/kg indeno (1,2,3-cd) pyrene	14,000
	* 1,600 ug/kg ethylbenzene	1,500
	* 6,700 ug/kg xylenes	5,600
S-22, 3'	8 ug/kg ethylbenzene	1,500
	16 ug/kg xylenes	5,600
B-16, 4'	310 ug/kg ethylbenzene	1,500
	20 ug/kg toluene	16,000
	360 ug/kg xylenes	5,600
S-23, 3'	30 ug/kg ethylbenzene	1,500
	9 ug/kg xylenes	5,600
B-17, 4'	810 ug/kg acenaphthene	26,000
	500 ug/kg phenanthrene	520
	590 ug/kg benzo (a) anthracene	14,000
	670 ug/kg chrysene	1,400,000
	440 ug/kg benzo (b) fluoranthene	14,000
	570 ug/kg benzo (a) pyrene	1,400
	5,000 ug/kg benzo (g,h,i) perylene	1,500,000
	91 ug/kg ethylbenzene	1,500
	22 ug/kg toluene	16,000
	320 ug/kg xylenes	5,600

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
B-18, 4'	Jar broken during transport by lab	NA
S-24, 3'	1,800 ug/kg naphthalene	5,200
*	1,400 ug/kg acenaphthylene	520
	480 ug/kg fluoranthene	18,000
	530 ug/kg benzo (g,h,i) perylene	1,500,000
	23 ug/kg ethylbenzene	1,500
	6 ug/kg xylenes	5,600
B-19, 3'	830 ug/kg naphthalene	5,200
	820 ug/kg acenaphthene	26,000
	370 ug/kg fluorene	18,000
*	1,300 ug/kg phenanthrene	520
	480 ug/kg anthracene	150,000
	2,200 ug/kg fluoranthene	18,000
	1,600 ug/kg pyrene	11,000
	1,100 ug/kg benzo (a) anthracene	14,000
	1,200 ug/kg chrysene	1,400,000
	720 ug/kg benzo (b) fluoranthene	14,000
	390 ug/kg benzo (k) fluoranthene	140,000
	720 ug/kg benzo (a) pyrene	1,400
	890 ug/kg indeno (1,2,3-cd) pyrene	14,000
	620 ug/kg dibenzo (a,h) anthracene	1,400
	6,300 ug/kg benzo (g,h,i) perylene	1,500,000
S-25, 3'	200 ug/kg acenaphthene	26,000
*	550 ug/kg phenanthrene	520
	470 ug/kg anthracene	150,000
	720 ug/kg fluoranthene	18,000
	790 ug/kg pyrene	11,000
	630 ug/kg benzo (a) anthracene	14,000
	700 ug/kg chrysene	1,400,000
	650 ug/kg benzo (b) fluoranthene	14,000
	470 ug/kg benzo (k) fluoranthene	140,000
	660 ug/kg benzo (a) pyrene	1,400
	580 ug/kg indeno (1,2,3-cd) pyrene	14,000
	430 ug/kg dibenzo (a,h) anthracene	1,400
	780 ug/kg benzo (g,h,i) perylene	1,500,000

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES
ASSOCIATED WITH INITIAL EXCAVATION
AT
ATSALIS DIESEL FUEL SPILL
2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
B-21, 4' *	1,600 ug/kg phenanthrene	520
	1,100 ug/kg anthracene	150,000
	13,000 ug/kg fluoranthene	18,000
	9,000 ug/kg pyrene	11,000
	6,700 ug/kg benzo (a) anthracene	14,000
	6,000 ug/kg chrysene	1,400,000
	4,300 ug/kg benzo (b) fluoranthene	14,000
	2,200 ug/kg benzo (k) fluoranthene	140,000
	* 2,600 ug/kg benzo (a) pyrene	1,400
	1,800 ug/kg indeno (1,2,3-cd) pyrene	14,000
	* 1,500 ug/kg dibenzo (a,h) anthracene	1,400
	1,300 ug/kg benzo (g,h,i) perylene	1,500,000
	12 ug/kg ethylbenzene	1,500
8 ug/kg xylenes	5,600	
S-27, 3' *	1,500 ug/kg naphthalene	5,200
	* 910 ug/kg acenaphthylene	520
	390 ug/kg pyrene	11,000
	630 ug/kg benzo (g,h,i) perylene	1,500,000
B-22, 4'	1,000 ug/kg chrysene	1,400,000
	55 ug/kg ethylbenzene	1,500
	63 ug/kg xylenes	5,600
S-28, 3'	37 ug/kg ethylbenzene	1,500
	11 ug/kg xylenes	5,600
S-29, 3'	None Detected	NA

Notes: ug/kg = micrograms per kilogram
 NA = Not applicable
 * = concentration above Part 201 Generic Residential 20X Drinking Water Value

- Sample ID nomenclature: S = Sidewall Sample, B = Bottom Sample
- Sample depths referenced below ground surface (feet)
- Excavated areas represented by samples beginning with S-20 and B-10 and continuing to the end of Table 1 were subsequently re-excavated as depicted on Figure 2. Final closure samples are presented in Table 2.

TABLE 2

CLOSURE SAMPLE RESULTS

ANALYTICAL RESULTS OF SOIL SAMPLES
 ASSOCIATED WITH FINAL EXCAVATION
 AT
 ATSALIS DIESEL FUEL SPILL
 2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
S-1, 5'	None Detected	NA
S-2, 4'	None Detected	NA
S-5, 5'	None Detected	NA
B-1, 8'	None Detected	NA
B-2, 8'	None Detected	NA
S-6, 4'	None Detected	NA
S-7, 5'	None Detected	NA
B-3, 8'	None Detected	NA
S-10, 2'	None Detected	NA
B-7, 4'	None Detected	NA
S-12, 3'	1,300 ug/kg benzo (g,h,i) perylene	1,500,000
S-15, 3'	400 ug/kg benzo (g,h,i) perylene	1,500,000
S-18, 3'	None Detected	NA
S-19, 3'	None Detected	NA
B-8, 5'	None Detected	NA
B-9, 4'	None Detected	NA
B-10, 4'	None Detected	NA
S-21, 3'	None Detected	NA
B-11, 3'	560 ug/kg benzo (a) anthracene 580 ug/kg chrysene 440 ug/kg benzo (b) fluoranthene 540 ug/kg benzo (a) pyrene	14,000 1,400,000 14,000 1,400
S-22, 3'	8 ug/kg ethylbenzene 16 ug/kg xylenes	1,500 5,600
S-23, 3'	30 ug/kg ethylbenzene 9 ug/kg xylenes	1,500 5,600

TABLE 2
CLOSURE SAMPLE RESULTS

**ANALYTICAL RESULTS OF SOIL SAMPLES
 ASSOCIATED WITH FINAL EXCAVATION
 AT
 ATSALIS DIESEL FUEL SPILL
 2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN**

Sample ID	Concentration and Compound	Gen. Res. 20X Drinking Water Value (ug/kg)
B-22, 4'	1,000 ug/kg chrysene 55 ug/kg ethylbenzene 63 ug/kg xylenes	1,400,000 1,500 5,600
S-28, 3'	37 ug/kg ethylbenzene 11 ug/kg xylenes	1,500 5,600
S-29, 3'	None Detected	NA
B-23, 4.5'	None Detected	NA
B-24, 4.5'	None Detected	NA
B-25, 4.5'	None Detected	NA
S-30, 3'	None Detected	NA
S-31, 3'	None Detected	NA
S-32, 3'	430 ug/kg fluoranthene 640 ug/kg pyrene 340 ug/kg indeno (1,2,3-cd) pyrene	18,000 11,000 14,000
B-26, 4.5'	None Detected	NA
S-33, 3'	None Detected	NA
S-34, 3'	None Detected	NA

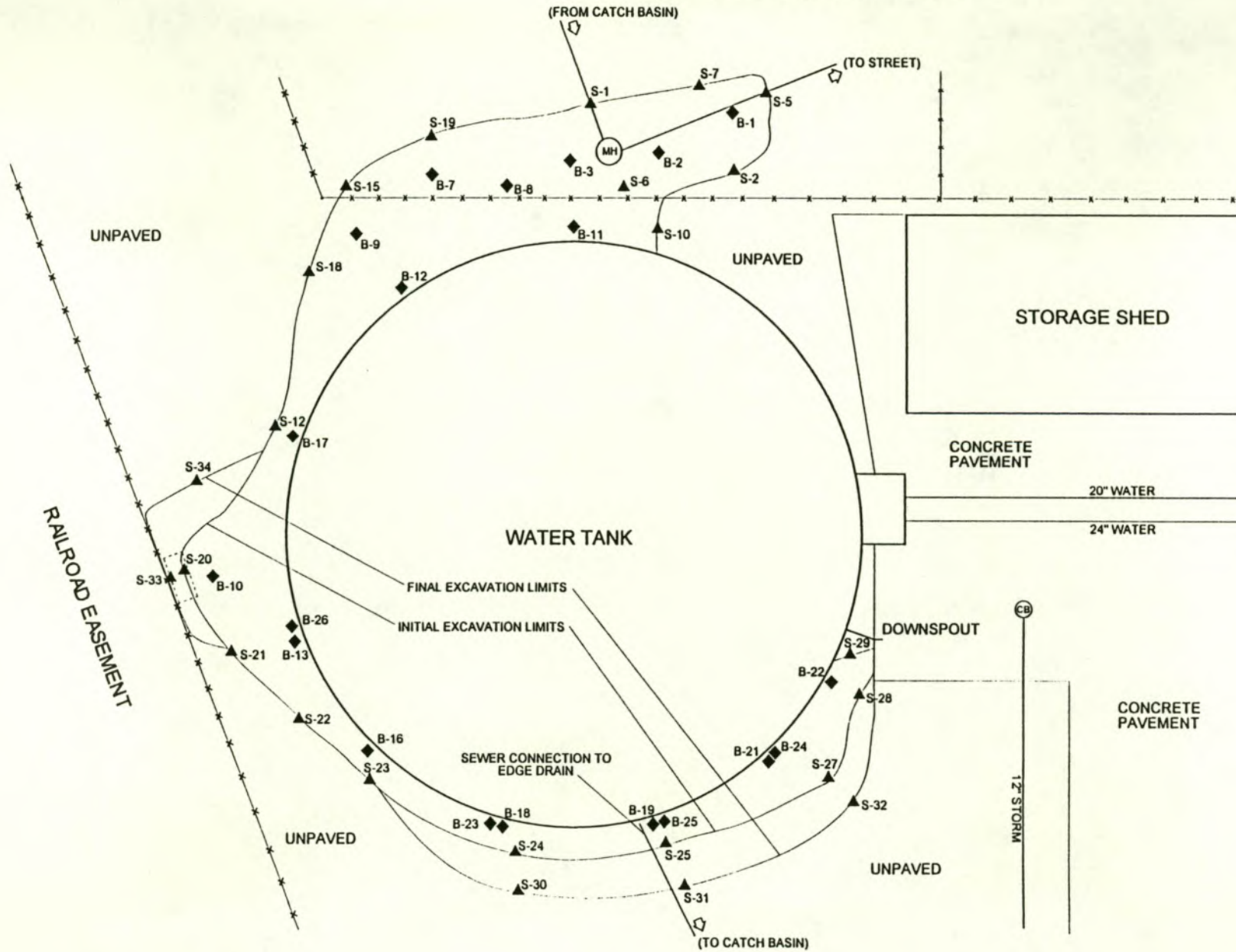
Notes: ug/kg = micrograms per kilogram

NA = Not applicable

* = concentration above Part 201 Generic Residential 20X Drinking Water Value

- Sample ID nomenclature: S = Sidewall Sample, B = Bottom Sample
- Sample depths referenced below ground surface
- Table 2 reflects supplemental excavation which removed residual soils exhibiting contaminant concentrations in excess of Part 201 Generic Residential cleanup criteria. Final closure samples results demonstrate compliance with Part 201.
- Sample B-23 continuing to the end of Table 2 represents the supplemental and final excavation sampling
- Samples collected at approx. double the frequency recommended in VSR document
- A total of 1,236 cubic yards of soil were removed during cleanup operations
- A total of 19,300 gallons of water/product were removed during cleanup operations

US ARMY RESERVE CENTER



LEGEND

- ◆ EXCAVATION BOTTOM SAMPLE
- ▲ EXCAVATION SIDEWALL SAMPLE
- APPROXIMATE FORMER TANK LOCATION

CITY OF ANN ARBOR
 WATER AND UTILITIES
 2000 S. INDUSTRIAL, ANN ARBOR, MICHIGAN

FIGURE 2
CLOSURE SAMPLE LOCATIONS

SCALE
 1" = 30'

PROJECT NO.
 05-8030-20

DATE
 11/96

DRAWN BY
 JK



13485 STAMFORD COURT
 LIVONIA, MICHIGAN 48150

SMITH

APPENDIX H

NOVEMBER 11, 1996 TRANSMITTAL TO MDEQ

November 11, 1996

Ms. Vicki Katko
Michigan Department of Environmental Quality
Environmental Response Division
Jackson State Office Building
301 E. Louis Glick Hwy.
Jackson, Michigan 49201

SUBJECT: Alsalis Diesel Fuel Spill
2000 S. Industrial, Ann Arbor, Michigan
Smith Environmental Project No. 05-8030-20

Dear Ms. Katko:

Pursuant to your request during our telephone conversation on Wednesday, November 6, 1996, Smith Technology Corporation is forwarding the following information regarding laboratory analyses of closure samples collected at the Atsalis diesel fuel spill site.

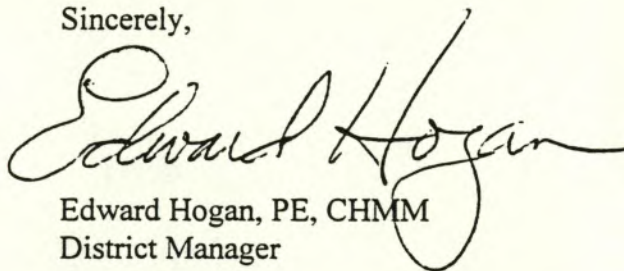
- Laboratory services for all closure sample analyses were performed by AAC Trinity Inc. (formerly Kemron Environmental Services) of Farmington Hills, Michigan.
- All closure samples were analyzed for diesel fuel indicator constituents in accordance with guidance documents issued by MDEQ. Specifically, all samples were analyzed for benzene, ethylbenzene, toluene, and total xylene (BETX) by EPA Method 8020 and polynuclear aromatic hydrocarbons (PNAs) by EPA Method 8310.
- Target Method Detection Limits (TMDLs) used by the laboratory were selected in accordance with Environmental Response Division Operational Memorandum #6, Revision #4 guidance for cleanup of Part 201 sties.

Enclosed for your review is a copy of a signed laboratory data sheet documenting the aforementioned information. A final report of site remediation and closure, including all laboratory data sheets, waste manifests, and related project documentation, will be prepared and forwarded to your attention.

Finally, this letter shall serve as confirmation that the meeting scheduled for Wednesday, November 13, 1996 at your office has been canceled. Based upon information forwarded to you by facsimile on November 5, 1996, existing documentation is sufficient to demonstrate that closure has been attained and a separate meeting (to review that documentation) will not be necessary.

If you have any questions regarding the information presented herein, please don't hesitate to call either Jeff King or Ed Hogan.

Sincerely,

A handwritten signature in cursive script that reads "Edward Hogan". The signature is written in black ink and is positioned above the printed name and title.

Edward Hogan, PE, CHMM
District Manager

attachments

cc: Mr. Sumedh Bahl, City of Ann Arbor
Ms. Stephanie Chrisman, REMSA
Mr. Richard Connors, Plunkett & Cooney

AAC Trinity Inc.
38855 Hills Tech Drive
Ste 550
Farmington Hills, MI 48331

Phone: (810)848-9656

SMITH TECHNOLOGY
13485 STAMFORD CT
LIVONIA MI 48150

Attn: JEFF KING

Purchase Order: 32891
Invoice Number: 101036

Order #: 96-10-181
Date: 11/01/96 11:37
Work ID: 05-8030-20/ATSALIS DIESEL
Date Received: 10/25/96
Date Completed: 10/28/96

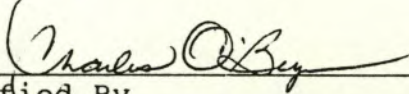
Client Code: SMTH_354G

Report Revised 10/31/96. Sample 06A re analyzed.

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	B-23/4.5'
02	B-24/4.5'
03	B-25/4.5'
04	S-30/3'
05	S-31/3'

<u>Sample Number</u>	<u>Sample Description</u>
06	S-32/3'
07	B-26/4.5'
08	S-33/3'
09	S-34/4'



Certified By
Charles O'Bryan, Laboratory Director

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 4

Sample Description: B-23/4.5' Collected: 10/24/96 10:15 Method: 8310
Test Description: Polyaromatic Hydrocarbons Test Code: PAHN Lab No: 01A Category: SOIL

ANALYST: MG EXTRACTED: 10/25/96 FILE #: PNA240
INSTRMT: 9010 INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
91-20-3	Naphthalene	ND	330
208-96-8	Acenaphthylene	ND	330
83-32-9	Acenaphthene	ND	330
86-73-7	Fluorene	ND	330
85-01-8	Phenanthrene	ND	330
120-12-7	Anthracene	ND	330
206-44-0	Fluoranthene	ND	330
129-00-0	Pyrene	ND	330
56-55-3	Benzo(a)anthracene	ND	330
218-01-9	Chrysene	ND	330
205-99-2	Benzo(b)fluoranthene	ND	330
207-08-9	Benzo(k)fluoranthene	ND	330
50-32-8	Benzo(a)pyrene	ND	330
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330
53-70-3	Dibenzo(a,h)anthracene	ND	330
191-24-2	Benzo(g,h,i)perylene	ND	330

SURROGATES
p-Terphenyl 44 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE

ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)

NA = NOT ANALYZED

NF = NOT FOUND

DL = DILUTED OUT

Order # 96-10-181
11/01/96 11:37

AAC Trinity Inc.
TEST RESULTS BY SAMPLE

Page 5

Sample Description: B-23/4.5' Collected: 10/24/96 10:15 Method: 8020
Test Description: Volatile Organics (BETX) Test Code: BETX5 Lab No: 01A Category: SOIL

ANALYST: TAN FILE #: 1011054
INSTRMT: 3400CX INJECTED: 10/25/96 FACTOR: 1 UNITS: ug/kg VERIFIED: CO

CAS#	COMPOUND	RESULT	MDL
71-43-2	Benzene	ND	5.0
100-41-4	Ethylbenzene	ND	5.0
108-88-3	Toluene	ND	5.0
1330-20-7	Xylenes, Total	ND	5.0

SURROGATES
a,a,a-trifluorotoluene 77.5 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.

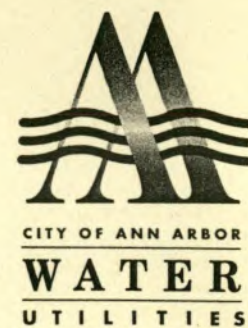
ND = NOT DETECTED AT OR ABOVE THE METHOD
DETECTION LIMIT (MDL)
NA = NOT ANALYZED

2000 S. 4nd.

May 13, 1996
FAXED:810 790-9065

RECEIVED
96 MAY 20 PM 12:48

DEPT OF ENVIRONMENTAL QUALITY
UST DIVISION



Mr. Tony Atsalakis, President
Atsalis Bros. Painting
22189 E. Fourteen Mile Rd.
Clinton Twp., Michigan 48035

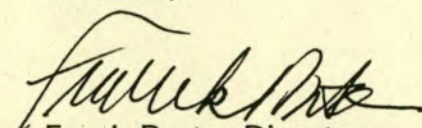
Subject: Diesel Fuel Spill on City of Ann Arbor Property
Contract for Painting; Bid No. 2766

This is to give you three (3) days written notice that on Friday, May 17, 1996 the City shall proceed to make good the deficiencies in your performance with respect to clean-up of the spill of diesel fuel which occurred on April 21, 1996.

We sent you a letter on May 6, 1996 as a result of your ceasing to perform the clean-up of this spill. In that letter we explained your contractual obligations to perform in this matter. You have failed to resume work on the clean up, and therefore we are invoking Section 23 of contract, City's Right To Do Work.

Within the next three days, if you should reconsider and decide to perform the clean-up, then you must provide the City with a detailed work plan satisfactory to the City and contractual commitments satisfactory to the City to evidence this on or before 5:00pm on Thursday, May 16, 1996.

Sincerely,


Frank Porta, Director
Water Utilities Department

FP:mgg

- cc: Abigail Elias, City Attorney
- Thomas J. Blessing, First Assistant City Attorney
- Neal Berlin, City Administrator
- ✓ Terri Harmon, Enforcement, DEQ
- Griffin, Smalley & Wilkerson, Insurance Agent for Atsalis
- American Casualty Company of Reading, PA, Surety, Perf. Bond #137989883
- File

atsalis.let

2000 S. Ind



CITY OF ANN ARBOR, MICHIGAN

100 North Fifth Avenue, P.O. Box 8647, Ann Arbor, Michigan 48107

May 6, 1996

UTILITIES DEPARTMENT

Mr. Tony Atsalakis, President
Atsalis Bros. Painting
22189 E. Fourteen Mile Rd.
Clinton Twp., MI 48035

Re: Diesel Fuel Spill on City of Ann Arbor Property
Contract for Painting; Bid No. 2766



Dear Mr. Atsalakis:

It is our understanding that you ceased clean-up work upon the recommendation of your insurers and/or attorneys. This causes the City of Ann Arbor great concern.

It is our understanding that an above ground diesel fuel tank placed on City of Ann Arbor property by your company and used by your company in the course of the contract accidentally released on April 21, 1996 up to 1,000 gallons of diesel fuel. In that light we have carefully reviewed the contractual requirements with the City under which you are obligated to perform, your insurance company is obligated to cover and your bonding agent is bound.

The most applicable contractual provisions we have identified based on our initial review are as follows:

- Section 10** - Protection of the Public and of Work and Property
- Section 23** - City's Right to Do Work
- Section 28** - Contractor's Insurance
- Section 30** - Damage Claims
- Section 39** - Cleaning Up

Please read these sections. You, your insurers and bonding agents appear to be bound by these provisions to perform and/or pay for the clean-up.

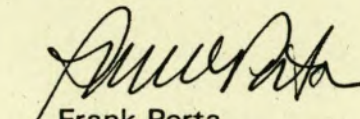


Administration and Customer Services (313) 994-2666, Field Services (313) 994-1760
Water Plant (313) 994-2840, Wastewater Plant (313) 994-2811

Parenthetically, I would note that the insurance requirements call for the City of Ann Arbor to be an additional insured. In fact, the certificates of insurance indicate that the coverage has been provided. Further, there should be little question that hazardous materials were envisioned under this contract. See in particular the technical specifications, Section 09870, paragraphs 3.58 and 3.59. Last, it is our reading of state and federal environmental laws that the Atsalis Bros. Painting is legally obligated to provide for the clean-up of this environmental contaminant as a requirement independent of your contractual obligations.

In light of the need for rapid resolution of this problem and in light of the above contractual provisions, we would ask that you immediately resume work on the clean-up of the diesel oil spill. It is essential that you immediately act to avoid a potential migration into and comingling of this petroleum spill with prior petroleum releases on adjacent private property. We expect that the clean-up will reconvene by Wednesday afternoon and clean-up will be diligently pursued until completed. The longer this continues the more likely it is that the costs of clean-up will go up. There seems to be little benefit to anybody in having clean-up costs increase.

Sincerely,



Frank Porta
Director of Utilities

FP/js

cc/Abigail Elias, City Attorney

Thomas J. Blessing, First Ass't. City Attorney

Neal Berlin, City Administrator

✓ Terri Harmon, Enforcement, DEQ

Griffin, Smalley & Wilkerson, Insurance Agent for Atsalis

American Casualty Company of Reading, PA, Surety, Perf. Bond #137989883

atsil.l

Daily Activity Report
4-23-96

In the afternoon of April 22, 1996, Gary Klepper informed me that Brett Wisely was at the scene of a surface water PEAS incident in Washtenaw County where it was likely that soil impacts has also resulted. He informed me that Brett would be in the office on the morning of the 23rd to brief me about the situation.

On the morning of 4-23-96, Brett came into my office and asked why I was still at the office rather than at the scene. I informed him that other than what was indicated to me by Gary that I did not know any details about the incident. I planned to go out to the site with my immediate supervisor because the liability issues at the incident were not clear. According to what I learned from Brett, a valve on a portable fuel tank had been apparently opened by vandals or the high winds on Saturday may have caused a tarp to lift and open the valve. The amount of diesel fuel in the tank that was lost was unknown. The fuel traveled downgrade, following the rounded contour of a very large water storage tank and puddled around a manhole. The manhole was slightly above grade. Fuel entered the storm sewer via the man hole and eventually ended up in surface water. Brett was involved due to the surface water impacts. Brett informed me that the contractors who own the portable fuel tank were attempting or indicating to Brett that they wanted to excavate the fuel contaminated soils by themselves. The contractors had already vacuumed up surface water (from the heavy rains) and the floating fuel and were storing it onsite which led Brett to surmise that they would improperly transport the liquid industrial waste. Brett was also concerned that if the fuel remained in the soil, that it would leach into the storm sewer because storm sewers are not water tight. Brett told me that he told the contractors that they had to clean the site up and he directed them to eliminate this potential source.

After my immediate supervisor told me that he would be further delayed I left the office and traveled to location of the fuel loss. The address is 2000 S. Industrial. This location is a UST site where there has been a free product problem. I met Nick Atsalakis who owned the portable tank. The site is a "DPW yard" owned by the Utilities (Water) Department of Washtenaw County. The contractors had been hired by the Water Department to paint the inside and the outside of the tank. The inside had already been completed and the contractors were preparing to begin the outside of the tank when this incident happened over the weekend. The site is secured with standard "hurricane fencing" complete with three strands of barbed wire. The backside of the property (west side) is adjacent to railroad tracks. The large water tank had fresh gang tags spray painted on it and a pop bottle with alcohol in it was found at the scene. Nick told me that a cap had been on the outlet of the tank, but that it was only hand tightened. The cap had to be taken off on purpose in order for the fuel to be released even with the valve in an open position. Assuming that a cap was hand tightened on the tank and that the valve was closed, it did appear to me that the release was probably the result of vandalism.

The spill was discovered Sunday and the tank still contained fuel upon discovery. It is a 1000 gallon tank and it was estimated that half of the contents had been released. The tank was used as temporary storage for the fuel and water that the Atsalis Brothers vacuumed up. HI-PO Industrial Services was also dispatched to the scene for response activities. HI-PO was hired by the Atsalis Bros.

The beginning of my conversation with Nick and Tony Atsalakis was that I was not ordering them or telling them they have to do the cleanup. I clearly told them that I was only asking them to do the cleanup and that anything they did would be considered voluntary. I stressed this because I had not been at the site on Sunday or Monday and I did not know what the circumstances had been surrounding the Atsalis Brothers contracting with HI-PO and I did not want to give the impression that I was there with the same perspective as others who had responded to the scene. I explained Part 201 to them as concisely as possible, including liability and what that liability pertained to. I stated further that I was not authorized to decide by myself whether or not they were liable so if they decided they did not want to pursue any further response activities, we would have to consider whether or not we would do the cleanup as an emergency action and only after that would the liability of any party be considered. I told them that if liability is affirmative the State might seek to recover costs. If liability is negative, cost recovery is not pursued. I explained that there is a need to involve the property owners in this action because, ultimately, if the incident is not cleaned up, it may become a site if contaminant concentrations are high enough.

Mike Stagg of the Washtenaw County Drain Commission showed up and asked me what was going on. I told him that I asked them to do a cleanup. He replied by saying that they were asked on Sunday to do the cleanup. He and the contractors went to look at the surface water situation and stayed behind to collect samples. However, when I went to get the PNA bottles, there were not any in the van.

While the others were gone, Janice and Harvey Mieske from the Utilities Department arrived. We discussed Part 201, cleanup standards, liability and other general administrative issues. I told them that if the footings of the tank were built with pea gravel as backfill, the water probably had a lot of the fuel in it and that it would be a good idea to put in a crock well or a french drain to try and retrieve the water and prevent the further migration. They had already thought of that and they were in the process of trying to find out whether or not the footing had drains around them but that the engineer who was in charge of the tank was gone on vacation.

When the contractors returned, they indicated that they wanted to do a cleanup and that their insurance company was on their way out to assess the situation. They further indicated that they were going to hire outside help to undertake response activities. Harvey had told me that someone from the DEQ had called him to ask about the painting job that the contractors had been hired for. I surmised that this was Martin and I suggested that the contractors contact him directly in order to avoid miscommunications from hearing second or third hand information about

something that was completely unrelated to this particular spill. I also told them that they should have the liquid waste hauled off by an industrial waste hauler. I also told them that when (if) they started to do a cleanup that it was fine with us if they wanted to stockpile the contaminated soil on visqueen and cover it with visqueen while it was being tested for waste disposal purposes.

Not much time had passed before Martin Jacobsen showed up. He asked whether or not they had tested the paint on the outside of the tank to see if it contained lead. They said yes and that they would do TCLP analysis for disposal purposes after it was removed. The job had not even been started yet. Then he asked what they were going to do with the puddled water that still had some fuel floating on it. They answered they would store it in tanks on site until they disposed of it and had it hauled away (by a licensed waste hauler). Then he asked how they were going to haul away the soil. Since we had already covered these topics, the contractors had ready responses for Martin. Then he asked whether or not they wanted some paint, 1,000 gallons of enamel paint that had been left behind at an abandoned facility. Then we talked about the fact that the soil could be likely disposed of in a landfill or conversely, they could remediate if they wanted to.

After we finished discussing this, Martin left and I left after him.

Upon arriving back at the office I was informed by other staff people that the spill had been covered by the EMU public radio station and that the report said representatives from the Michigan Department of Environmental Quality would go to the site on Tuesday morning. For the record, I was not called or otherwise contacted by the media.

Vicki Kaske

4-23-96

DICKINSON, WRIGHT, MOON, VAN DUSEN & FREEMAN
COUNSELLORS AT LAW
500 WOODWARD AVENUE - SUITE 4000
DETROIT, MICHIGAN 48226-3406

TELEPHONE (313) 223-3500

FACSIMILE (313) 223-3598

BLOOMFIELD HILLS, MICHIGAN
LANSING, MICHIGAN
GRAND RAPIDS, MICHIGAN
WASHINGTON, D.C.
CHICAGO, ILLINOIS
WARSAW, POLAND

KEITH J. LERMINIAUX
(313) 223-3034

May 9, 1996



Ms. Terri Harmon
Michigan Department of Environmental Quality
UST Division
Town Center
333 S. Capital Ave., 2nd Floor
PO Box 31057
Lansing, MI 48909-7657

Re: Diesel Fuel Release on City of Ann Arbor Property

Dear Ms. Harmon:

Our firm represents Atsalis Brothers Painting with respect to the above matter.

As you are probably aware, on April 21, 1996, vandals released diesel fuel from an above ground storage tank located on a site owned by the City of Ann Arbor located at 2000 S. Industrial Road. I'm not sure how this may have occurred, but in reporting the release, it appears that someone from Atsalis may have indicated that it was from an underground storage tank. If such a statement was made, it was not accurate, as the release was from a 1,000 gallon above ground tank. I would appreciate it if you could mark your records to reflect this information.

Should you require further information or documentation, please feel free to contact me at your convenience.

Sincerely,

Keith J. Lermaniaux

cc: Mr. Tony Atsalakis
Ms. Vicki Katko

ENVIRONMENTAL RESPONSE DIVISION
INCIDENT TRACKING WORKSHEET

DATE: 2000
PAGE: 1 of 1 Indust.

RECEIVING OFFICE

INCIDENT NUMBER: 13012596
DISTRICT: Jackson
DATE OF CALL: 4-22-96
CALL TAKEN BY: Katko

PEAS NUMBER:

TIME OF CALL:

STAFF PERSON ASSIGNED: Katko

DIVISION: ERD

COMPLAINT SOURCE

NAME/SOURCE: Brett Wisely
ADDRESS: SWQD, office

PHONE NUMBER: ()

INCIDENT INFORMATION

DESCRIPTION: Release from a portable diesel fuel tank at
2000 S. Industrial, Ann Arbor. Appears to have
been caused by an act of vandalism. 500
gallons released, impacted soil and surface water

COUNTY: Washtenaw

FACILITY NAME: City of Ann Arbor DPW Yard

ADDRESS: 2000 S. Industrial

PHONE NUMBER: ()

TOWNSHIP:

RANGE:

SECTION:

QUARTER:

QUARTER:

CONTACT PERSON:

RELATIONSHIP TO INCIDENT:

NOTIFICATIONS:

COMPANY/FACILITY INFORMATION

NAME: property owned by City of Ann Arbor

ADDRESS: tank and contents owned by Atsalis Bros.

PHONE NUMBER: ()

CONTACT PERSON:

TITLE:

[] OWNER [] OPERATOR [] TRANSPORTER [] GENERATOR

INCIDENT STATUS

- IN PROGRESS SPECIFY:
- UNABLE TO CONFIRM INCIDENT REPORT
- NO FURTHER RESPONSE: COMMENTS/BASIS:

- RP CLEAN-UP COMPLETED ESTIMATED COST:
- STATE CLEAN-UP COMPLETED ESTIMATED COST:
- REFER TO ERD MASTER SITE DATABASE

(NOTE: See Appendix A in ITS Users Guide for Definition of
"Site of Environmental Contamination")

UNIQUE SITE #:

SITE NAME:

REFER TO LUST DATABASE

REFER PRIMARY RESPONSIBILITY TO:

[] SWQD [] MDA [] WMD [] MDPH [] AQD [] GSD

[] LOCAL HEALTH DEPT [] OTHER: SPECIFY:

CONTACT PERSON:

DATE OF STATUS: -0-



ENVIRONMENTAL RESPONSE DIVISION
INCIDENT TRACKING WORKSHEET

DATE: 05/13/96
PAGE: 1

RECEIVING OFFICE

INCIDENT NUMBER: 13012596 PEAS NUMBER:
DISTRICT: Jackson
DATE OF CALL: 04/22/96 TIME OF CALL:
CALL TAKEN BY: Klepper
STAFF PERSON ASSIGNED: Katko DIVISION: ERD

COMPLAINANT SOURCE

NAME/SOURCE: Brett Wiseley, SWOD
ADDRESS:

PHONE NUMBER: ()

INCIDENT INFORMATION

DESCRIPTION: Gary Klepper informed me of an incident in Ann Arbor that occurred over the weekend. Diesel fuel was lost and ended up in a storm sewer and soils. The fuel was released from a portable tank owned by the Atslais Bros. The release occurred at **2000 S. Industrial Highway.**

COUNTY: Washtenaw
FACILITY NAME: 2000 S. Industrial Highway
ADDRESS: 2000 S. Industrial

Ann Arbor

PHONE NUMBER: ()

TOWNSHIP: RANGE: SECTION: QUARTER: QUARTER:
CONTACT PERSON: Nick Atsalis
RELATIONSHIP TO INCIDENT: owned tank and contents
NOTIFICATIONS:

COMPANY/FACILITY INFORMATION

NAME: Atsalis Brothers

ADDRESS:

PHONE NUMBER: ()

CONTACT PERSON:

OWNER OPERATOR TRANSPORTER GENERATOR

INCIDENT STATUS

IN PROGRESS SPECIFY:
 UNABLE TO CONFIRM INCIDENT REPORT
 NO FURTHER RESPONSE: COMMENTS/BASIS:

RP CLEAN-UP COMPLETED ESTIMATED COST:
 STATE CLEAN-UP COMPLETED ESTIMATED COST:
 REFER TO ERD MASTER SITE DATABASE

(NOTE: See Appendix A in ITS Users Guide for Definition of "Site of Environmental Contamination")

UNIQUE SITE #: SITE NAME:

REFER TO LUST DATABASE

REFER PRIMARY RESPONSIBILITY TO:

SWOD MDA WMD MDPH AOD GSD

LOCAL HEALTH DEPT OTHER: SPECIFY:

CONTACT PERSON: Vicki Katko

DATE OF STATUS:

ENVI MENTAL RESPONSE DIVISION
INCIDENT TRACKING WORKSHEET

INCIDENT NUMBER: 13012596

SOURCE/POINT OF RELEASE:

- PIPELINE DUMP SURFACE DISCHARGE UNKNOWN
 TANKER

SIZE: _____

- TRANSPORTATION

SPECIFY: _____

- CONTAINER/ROLLOFF BOX

SIZE: _____

- BARREL/DRUM

NUMBER: _____

SIZE: _____

- ABOVEGROUND TANK

SIZE: 1000 gallons

- UNDERGROUND TANK

NUMBER: _____

SIZE: _____

- LAGOON

SIZE: _____

- OTHER

SPECIFY: _____

CONTAMINANT (s) CATEGORY:

- GASOLINE DIESEL FUEL HEATING OIL
 PCBs METALS OTHER PETROLEUM PRODUCTS
 FERTILIZER SOLID WASTE BRINE/CHLORIDES
 PESTICIDES (HERBICIDES, INSECTICIDES, ETC.)

- SOLVENTS

SPECIFY: _____

- OTHER:

SPECIFY: _____

ESTIMATED TOTAL QUANTITY LOST: _____ 500

- GALLONS CUBIC YARDS POUNDS TONS

- OTHER - SPECIFY: _____

RESOURCE
AFFECTED

RESOURCE
POTENTIALLY AFFECTED

SEDIMENT

SURFACE WATER

GROUNDWATER

AIR

SOIL

WETLAND

MUNICIPAL WELL

RESIDENTIAL WELL

COMMERCIAL WELL

FAUNA

FLORA

OTHER - SPECIFY:

February 6, 1997

Ms. Vicki Katko
Michigan Department of Environmental Quality
Environmental Response Division
Jackson State Office Building
301 E. Louis Glick Hwy.
Jackson, Michigan 49201



Subject: Closure Report
Atsalis Diesel Fuel Spill
2000 S. Industrial, Ann Arbor, Michigan
Smith Technology Project No. 05-8030-20

Dear Ms Katko:

Enclosed please find the closure report for the subject site. As discussed previously, the results of laboratory analyses performed on soil samples collected during site cleanup operations demonstrate that unrestricted closure has been attained with respect to the subject release. It is our professional opinion that compliance with the closure requirements of Part 201 has been addressed in their entirety. At this time we request written confirmation of your previous verbal acknowledgment of closure. If you have any questions regarding this project please feel free to call us.

Sincerely,

Smith Technology Corporation

Handwritten signature of Jeffrey R. King, CPG.

Jeffrey R. King, CPG

Handwritten signature of Edward Hogan, PE, CHMM.

Edward Hogan, PE, CHMM
District Manager

Enclosures

cc: Mr. Richard Connors, Plunkett & Cooney (2)
Mr. Sumedh Bahl, City of Ann Arbor (1)
Ms. Stephanie Chrisman, REMSA (2)
Mr. Tony Atsalakis, Atsalis Bros. Painting (1)

DICKINSON, WRIGHT, MOON, VAN DUSEN & FREEMAN
COUNSELLORS AT LAW
500 WOODWARD AVENUE - SUITE 4000
DETROIT, MICHIGAN 48226-3406

TELEPHONE (313) 223-3500

FACSIMILE (313) 223-3598

BLOOMFIELD HILLS, MICHIGAN
LANSING, MICHIGAN
GRAND RAPIDS, MICHIGAN
WASHINGTON, D.C.
CHICAGO, ILLINOIS
WARSAW, POLAND

KEITH J. LERMINIAUX
(313) 223-3034

May 10, 1996

VIA FACSIMILE AND REGULAR MAIL

Ms. Vicki Katko
Environmental Quality Analyst
Environmental Response Division
Michigan Department of Environmental Quality
Jackson State Office Building
301 E. Louis Glick Highway
Jackson, MI 49201



Re: Diesel Fuel Release 2000 South Industrial, Ann Arbor on April 21

Dear Ms. Katko:

As we discussed yesterday, our firm represents Atsalis Brothers Painting Company ("Atsalis"). The purpose of this letter is to provide you with a brief update on the status of this matter.

As I believe you are aware, immediately upon learning of the release, Atsalis hired HI-PO, Inc. ("HI-PO") to respond to the spill. Amongst other actions, HI-PO placed several absorbent booms in a retention pond that was impacted. I believe that all concerned would agree that HI-PO was successful in containing the release and mitigating its impact on adjacent surface water bodies. In addition, Atsalis excavated some of the contaminated soils, which were placed in a secure roll-off box on site. Atsalis also covered the remaining impacted soils with tarps, which should assist in minimizing the impact of the release.

After consultation with the Washtenaw County Drain Commission, the booms were removed from the retention pond on May 3. Provided that the City of Ann Arbor will sign the appropriate waste manifests as owner of the materials, Atsalis will arrange for the proper disposal of the contaminated boom materials, as well as the contaminated soils that are in the roll-off box.

I believe that it is accurate to say that a consensus has developed amongst all concerned that the release was the work of vandals. Atsalis is currently awaiting a decision from its insurance carrier as to the position it will take on coverage and payment for this incident.

Ms. Vicki Katko

May 10, 1996

Page 2

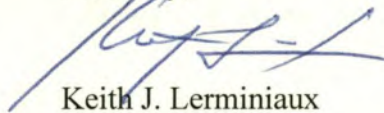
DICKINSON, WRIGHT, MOON, VAN DUSEN & FREEMAN

The City of Ann Arbor is quite anxious to have work on the tank completed. Work on the inside of the tank is now complete. Atsalis plans to mobilize crews to complete work on the outside of the tank as soon as weather permits, which may be as soon as tomorrow. The tarps will remain in place throughout this work.

Please feel free to share this letter with Brett Wisely of the Surface Water Quality Division in the event that you feel that he needs to be apprised of the current status of this matter. We believe that Atsalis responded appropriately to this release, and the company is concerned about the impact of the release on the environment. Atsalis will continue to cooperate with the MDEQ consistent with the available evidence which demonstrates that the release was caused by vandals.

Should you have any questions or comments, or require further information, please feel free to call me at your convenience.

Sincerely,



Keith J. Lerminiaux

cc: Mr. Tony Atsalakis
Mr. Sumedh Bahl
Mr. Frank Porta

STATE OF MICHIGAN



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: <http://www.deq.state.mi.us>

RUSSELL J. HARDING, Director

REPLY TO:

JACKSON DISTRICT OFFICE
STATE OFFICE BUILDING
301 E LOUIS GLICK HWY
JACKSON MI 49201-1556

file copy

February 11, 1997

Mr. Jeffrey King
Smith Technology Corporation
13485 Stamford Ct.
Livonia, Michigan 48150

Dear Mr. King:

SUBJECT: Atsalis Diesel Fuel Spill, 2000 S. Industrial, Ann Arbor, Washtenaw County

I have reviewed the aforementioned closure report dated February 6, 1997. The closure report indicates that BTEX and PNA contamination that occurred as a result of the April 21, 1996, diesel spill has been remediated via excavation and proper disposal. This letter is to serve as written confirmation that this incident, ITS # 13012596, is considered closed.

If you have any questions, please feel free to call me at 517-780-7914.

Sincerely,

Vicki Katko

Vicki Katko
Environmental Quality Analyst
Environmental Response Division

VK:kl

cc: Mr. R. Dowe Parsons, DEQ *RDP*



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
JACKSON DISTRICT OFFICE



LIESL EICHLER CLARK
DIRECTOR

September 10, 2021

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

City of Ann Arbor
Mr. Matthew J. Kulhanek
100 North Fifth Avenue
P. O. Box 8647
Ann Arbor, Michigan 48107

Dear Mr. Kulhanek:

SUBJECT: Violation Notice
Utility Department Field Services, 2000 South Industrial Highway;
Facility ID#: 0-0010237; Confirmed Release#: C-0126-20

This letter is to inform you, as representative of the City of Ann Arbor, that the Final Assessment Report (FAR) required pursuant to Section 21311a of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, for the subject site was due on July 6, 2021. As of the date of this letter, the Department of Environment, Great Lakes, and Energy (EGLE) has not received the required report.

EGLE previously contacted the City of Ann Arbor on July 21, 2020, to inform the City of Ann Arbor of its obligations under Part 213 of the NREPA. However, EGLE does acknowledge receipt of an Initial Assessment Report on March 10, 2021.

Please be advised that due to the City of Ann Arbor's failure to comply with the Part 213 reporting requirements, administrative penalties for the submittal of a late report may be imposed. To avoid the imposition of administrative penalties, please immediately submit a complete FAR to EGLE's Jackson District at the address below.

If you do not agree that the City of Ann Arbor is responsible for conducting corrective actions for the above-subject confirmed release, please submit documentation in support of the reasons why they are not responsible to the address provided below. EGLE will evaluate the information submitted and make a determination of the City of Ann Arbor's liability for conducting the corrective actions required under Part 213.

Please see the enclosed information sheet for more details about the Part 213 reporting requirements and details of the penalties that may be imposed pursuant to Section 21313a of Part 213 for violation of the reporting requirements. For more information, or if you feel you have received this letter in error, please contact Mr. Dan Wilde at 517-285-6999.

Sincerely,

Andrea Munoz-Hernandez

Andrea Munoz-Hernandez, Ph.D.
District Supervisor
Remediation and Redevelopment Division
Jackson District Office
517-599-7525
munoz-hernandeza@michigan.gov

Enclosure

cc: Ms. Lisa Agosta, EGLE
Mr. Dan Wilde, EGLE



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
JACKSON DISTRICT OFFICE



LIESL EICHLER CLARK
DIRECTOR

February 18, 2022

ELECTRONIC MAIL

Mr. Matthew J. Kulhanek
City of Ann Arbor
301 East Huron, 6th Floor
Ann Arbor, Michigan 48104

Dear Kulhanek:

SUBJECT: Notice of Closure Report Considered Approved
Closure Report Receipt Date: November 3, 2021
City of Ann Arbor Fuel Farm, 2000 South Industrial Highway,
Ann Arbor, Washtenaw County, Michigan 48104
Facility ID#: 0-0010237
Confirmed Release#: C-0126-20

This letter provides notification that the Department of Environment, Great Lakes, and Energy (EGLE), Remediation and Redevelopment Division (RRD) received the subject Closure Report on November 3, 2021. Section 21315 of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), requires that the department determine whether it will audit a report within 90 days. This report has not been selected for an audit by the RRD and 90 days has elapsed since RRD received the report; therefore, according to Section 21315(4) the Closure Report is considered approved.

Please note the following:

When contaminated soil and/or groundwater as a result of a release of a regulated substance remains on site consistent with closure requirements, a person shall not remove or allow this soil and/or groundwater to be removed from the site to an off-site location without properly characterizing the soils and/or groundwater to determine that they can be lawfully relocated without posing a threat to the public health, safety and welfare, and the environment. The determination shall consider whether the soil and/or groundwater is subject to regulations under Part 111, Hazardous Waste Management, and/or Part 115, Solid Waste Management, of the NREPA.

If the closure relies on the elimination of the groundwater pathway, groundwater contamination may remain above the Tier I Drinking Water Risk-Based Screening Levels in the shallow groundwater. Therefore, the owner or operator, or any other party, shall not engage in any activities that would alter the conditions of closure. This may include but may not be limited to the installation of borings, temporary or permanent monitor wells and water supply wells without proper precautions to prevent the cross-contamination of deeper aquifers. In addition, the owner/operator shall provide disclosure to potential purchasers or users of the property regarding the conditions of closure.

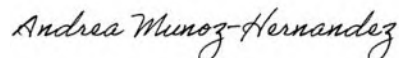
All groundwater monitoring wells, and other similar devices installed as part of the corrective activities at the property must be properly abandoned when they are no longer needed for their original or modified purpose. Abandonment should be completed in accordance with the American Society of Testing Materials Standard D 5299-92, "Standard guide for Decommissioning Ground Water Wells, Vadose Zone monitoring Devices, Boreholes, and Other Devices for environmental Activities." Proper abandonment of groundwater monitoring wells and other potential conduits for contamination should be performed within 60 days after use has been discontinued.

This closure pertains only to the contamination associated with the confirmed release number identified above. EGLE expresses no opinion as to other contaminants beyond those identified and remediated as part of the closure activities for this particular release. EGLE makes no warranty as to the fitness of the property for any general or specific use. Prospective purchasers or users of the property are advised to use due diligence prior to acquiring or using this property to determine if their proposed land use might alter the conditions of the closure and result in unacceptable risks to public health, safety, and welfare and the environment.

All documents and data prepared, acquired, or relied upon in connection with the Closure Report must be maintained for not less than six years after the date upon which the closure report was submitted according to Section 21312a(1)(d) of the NREPA, and shall be made available to EGLE upon request.

If you have any questions regarding this matter, please contact Mr. Dan Wilde, Project Manager, at 517-285-6999; wilded1@michigan.gov; or EGLE, RRD, Jackson District Office, 301 East Glick Highway, Jackson, Michigan 49201.

Sincerely,



Andrea Munoz-Hernandez, Ph.D.
District Supervisor
Remediation and Redevelopment Division
Jackson District Office
517-599-7525
munoz-hernandeza@michigan.gov

cc: Mr. Gerard DeBusschere, ATC Group Services, LLC
Mr. Dan Wilde, EGLE

MEETING ATTENDEES

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>	<u>FAX</u>
MICHAEL STAGG	WASHTENAW COUNTY DRAIN COMM	994-2525	994-2459
FRED NICOU	ASU GROUP	462-3030	462-9489
Harvey Miesko	E. T. of P. 17 ²	994-2845	994-0151
Mary Ellen Cromwell	MDEQ - SWQD	517-780-7847	517-780-7855
Vicki Katko	MDEQ - ERD	517-780-7914	517-780-7855
R. Dawe Parsons	MDEQ - ERD	517-780-7919	"
Jim Nowak	FAC MGR U.S. ARMY Reserve CTR	313-662-0566	313-662-0978

DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

INTEROFFICE COMMUNICATION

TO: Dan Wilde, Environmental Quality Analyst, RRD

FROM: Shane Morrison, Toxicology Specialist, RRD

DATE: December 28, 2021

SUBJECT: 2000 S Industrial Highway Site-Specific Criteria Evaluation

The following site-specific volatilization to indoor air criteria (SSVIAC) are the Michigan Department of Environment, Great Lakes, and Energy's (EGLE's) determination of values that reflect best available information regarding the toxicity and exposure risks posed by the hazardous substances present at the facility. These values are based upon the information provided with the request to develop SSVIAC for this facility. These values may be used provided it is documented that the conditions used to develop the site-specific criteria are met at the facility. Other values may be developed by a person consistent with the statutory provisions for development of site-specific criteria and provided for EGLE review and approval.

Correspondence transmitting these values to the submitter/consultant as part of a report, review, or other request must incorporate the appropriate sections of the volatilization to indoor air pathway (VIAP) model document language. As indicated in this document, when groundwater volatilization to indoor air inhalation criteria (GVIIC) and soil volatilization to indoor air inhalation criteria (SVIIC) are not applicable, the correspondence must include language indicating the requirement to evaluate all potentially affected three media i.e., groundwater, soil, and soil gas. In addition, all of the following SSVIAC tables must be copied into the correspondence or letter as part of your response to the submitter/consultant. If representative groundwater and soil sampling indicate that site concentrations are below unrestricted residential SSVIAC, there is not a vapor source and there is not a requirement to evaluate the migration of vapors with soil gas sampling. Exceedance of unrestricted residential SSVIAC for any media necessitates a representative soil gas investigation to evaluate the VIAP.

Unrestricted residential site-specific criteria were included in the evaluation based on information provided and EGLE's residential conceptual site model. Exceedance of the unrestricted residential SSVIAC will require restrictions or institutional controls for closure or aid in the determination of off-site migration.

Nonresidential SSVIAC may be adjusted for some hazardous substances to reflect a reasonable maximum worker exposure of 12-hour per day; however, if a person does not exceed the provided nonresidential site-specific criteria, no adjustment is necessary.

The site-specific criteria were generated using the United States Department of Agriculture (USDA) soil type of sand. Other site-specific criteria can be generated using a different soil type by providing soil characterization results from department approved methods on soils collected at the site.

Additional hazardous substances were included in the site-specific evaluation that were not explicitly requested. These hazardous substances may be components of recent petroleum releases. The preemptive site-specific evaluation of these substances was provided to limit the potential need for future resubmittal for this facility.

Please contact me at MorrisonS5@michigan.gov or 517-230-7570 if you require any clarification of these comments and criterion or have additional questions.

2000 S Industrial Highway

December 28, 2021

cc: Eric Wildfang, Toxicology Unit Supervisor, RRD
Andrea Munoz-Hernandez, District Supervisor, RRD
Sheryl Doxtader, Assistant District Supervisor, RRD

Table 1. Nonresidential Volatilization to Indoor Air Criteria (VIAC). The following are **restricted** site-specific criteria that apply to a nonresidential structure that has areas **< 50,000 ft² of continuously open space**, a **slab-on-grade** foundation, the depth to groundwater submitted for this site (i.e. 4 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Groundwater Not In Contact (GWNIC) (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
83329	Acenaphthene	3,900 (S) sol	3.6E+06 nc	11,000 nc
208968	Acenaphthylene	710 (CC) nc	DATA	11,000 nc
994058	t-Amyl methyl ether (TAME)	23,000 nc	600 nc	3,200 nc
120127	Anthracene	43 (S) sol	2.2E+08 nc	51,000 nc
71432	Benzene	370 ca	47 (M) ca	260 ca
56553	Benzo(a)anthracene	9.4 (S) sol	1.1E+07 ca	33 ca
205992	Benzo(b)fluoranthene	NA	NA	NA
207089	Benzo(k)fluoranthene	NA	NA	NA
191242	Benzo(g,h,i)perylene	NA	NA	NA
50328	Benzo(a)pyrene	NA	NA	NA
75650	t-Butyl alcohol	2.2E+06 nc	57,000 nc	3,700 nc
104518	n-Butylbenzene	12,000 (S) sol	9,800 nc	10,000 nc
135988	sec-Butylbenzene	18,000 (S) sol	66,000 (C) nc (49,000)	20 nc
98066	t-Butylbenzene	21 nc	11 (M) nc	20 nc
218019	Chrysene	NA	NA	NA
110827	Cyclohexane	17,000 nc	5,600 nc	3.1E+05 nc
53703	Dibenzo(a,h)anthracene	NA	NA	NA
75343	1,1-Dichloroethane	1,700 ca	74 ca	1,200 ca
107062	1,2-Dichloroethane	540 ca	23 (M) ca	77 ca
60297	Diethyl ether	3.0E+05 nc	6,200 nc	51,000 nc
108203	Diisopropyl ether	87,000 (DD) dev	2,300 (DD) dev	23,000 (DD) dev
64175	Ethanol	5.9E+08 (EE) st	1.6E+07 (EE) st	6.3E+05 (EE) st
637923	Ethyl-tert-butyl ether (ETBE)	580 (CC) nc	DATA	19,000 nc
100414	Ethylbenzene	1,200 ca	340 ca	800 ca
106934	Ethylene dibromide	73 ca	2.1 (M) ca	3.3 ca

Table 1. Nonresidential Volatilization to Indoor Air Criteria (VIAC). The following are **restricted** site-specific criteria that apply to a nonresidential structure that has areas **< 50,000 ft² of continuously open space**, a **slab-on-grade** foundation, the depth to groundwater submitted for this site (i.e. 4 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Groundwater Not In Contact (GWNIC) (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
206440	Fluoranthene	NA	NA	NA
86737	Fluorene	1,700 (S) sol	8.3E+06 nc	7,200 nc
142825	n-Heptane	3,400 (S) (GW) sol	2,300 nc	1.8E+05 nc
110543	n-Hexane	1,000 (GW) nc	440 nc	36,000 nc
193395	Indeno(1,2,3-cd)pyrene	NA	NA	NA
67630	Isopropyl alcohol	6.7E+06 nc	1.7E+05 nc	10,000 nc
98828	Isopropyl benzene	260 ca	110 (M) ca	190 ca
1634044	Methyl-tert-butyl ether (MTBE)	1.0E+05 ca	2,100 ca	7,700 ca
96377	Methylcyclopentane	830 nc	510 (M) nc	36,000 nc
91576	2-Methylnaphthalene	20,000 nc	30,000 nc	510 nc
91203	Naphthalene	1,900 ca	1,900 ca	59 ca
109660	Pentane	1,400 (GW) nc	630 (M) nc	51,000 nc
85018	Phenanthrene	1,200 (S) sol	29,000 nc	5.1 nc
1336363	Polychlorinated biphenyls (PCBs)	0.97 (CC) (J) ca	DATA	20 (J) ca
103651	n-Propylbenzene	45,000 (DD) dev	21,000 (DD) dev	33,000 (DD) dev
129000	Pyrene	140 (S) sol	4.4E+08 nc	5,100 nc
100425	Styrene	14,000 ca	4,300 ca	3,500 ca
108883	Toluene	3.6E+05 (EE) st	64,000 (EE) st	2.5E+05 (EE) st
540841	2,2,4-Trimethyl pentane	2,400 (S) (GW) sol	2,200 (M) nc	1.8E+05 nc
526738	1,2,3-Trimethylbenzene	13,000 (JT) nc	4,800 (JT) nc	3,100 (JT) nc
95636	1,2,4-Trimethylbenzene	7,100 (JT) nc	2,600 (JT) nc	3,100 (JT) nc
108678	1,3,5-Trimethylbenzene	5,000 (JT) nc	1,800 (JT) nc	3,100 (JT) nc
1330207	Xylenes	19,000 (J) nc	5,000 (J) nc	11,000 (J) nc

Table 2. Residential Volatilization to Indoor Air Criteria (VIAC). The following are **unrestricted** site-specific criteria that apply to a residential house with a **basement** foundation, the depth to groundwater submitted for this site (i.e. 4 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Shallow Groundwater (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
83329	Acenaphthene	3,900 (S) sol	2.0E+05 nc	7,300 nc
208968	Acenaphthylene	65 nc	DATA	7,300 nc
994058	t-Amyl methyl ether (TAME)	82 nc	34 (M) nc	2,200 nc
120127	Anthracene	43 (S) sol	1.3E+07 nc	35,000 nc
71432	Benzene	1.0 ca	1.7 (M) ca	110 ca
56553	Benzo(a)anthracene	9.4 (S) (MM) sol	1.6E+05 (MM) mut	5.8 (MM) mut
205992	Benzo(b)fluoranthene	NA	NA	NA
207089	Benzo(k)fluoranthene	NA	NA	NA
191242	Benzo(g,h,i)perylene	NA	NA	NA
50328	Benzo(a)pyrene	NA	NA	NA
75650	t-Butyl alcohol	17,000 nc	3,200 nc	2,500 nc
104518	n-Butylbenzene	44 nc	550 nc	7,000 nc
135988	sec-Butylbenzene	270 nc	3,800 nc	14 nc
98066	t-Butylbenzene	7.7E-02 (M) nc	0.64 (M) nc	14 nc
218019	Chrysene	NA	NA	NA
110827	Cyclohexane	290 nc	320 (M) nc	2.1E+05 nc
53703	Dibenzo(a,h)anthracene	NA	NA	NA
75343	1,1-Dichloroethane	4.7 ca	2.6 (M) ca	530 ca
107062	1,2-Dichloroethane	1.4 ca	0.82 (M) ca	33 ca
60297	Diethyl ether	1,200 nc	350 nc	35,000 nc
108203	Diisopropyl ether	36 (DD) dev	190 (M) (DD) dev	23,000 (DD) dev
64175	Ethanol	1.0E+05 (FF) st	1.3E+06 (EE) st	6.3E+05 (EE) st
637923	Ethyl-tert-butyl ether (ETBE)	22 nc	DATA	13,000 nc
100414	Ethylbenzene	2.8 ca	12 (M) ca	340 ca
106934	Ethylene dibromide	0.13 ca	7.4E-02 (M) ca	1.4 ca

Table 2. Residential Volatilization to Indoor Air Criteria (VIAC). The following are **unrestricted** site-specific criteria that apply to a residential house with a **basement** foundation, the depth to groundwater submitted for this site (i.e. 4 ft), and USDA soil type of **sand**.

CAS#	Hazardous Substance	Shallow Groundwater (µg/L)	Soil (µg/kg)	Soil Vapor** (µg/m ³)
206440	Fluoranthene	NA	NA	NA
86737	Fluorene	1,700 (S) sol	4.7E+05 nc	4,900 nc
142825	n-Heptane	150 nc	130 nc	1.2E+05 nc
110543	n-Hexane	29 nc	25 nc	24,000 nc
193395	Indeno(1,2,3-cd)pyrene	NA	NA	NA
67630	Isopropyl alcohol	53,000 nc	9,800 nc	7,000 nc
98828	Isopropyl benzene	0.60 (M) ca	3.8 (M) ca	81 ca
1634044	Methyl-tert-butyl ether (MTBE)	250 ca	74 (M) ca	3,300 ca
96377	Methylcyclopentane	30 (M) nc	29 (M) nc	24,000 nc
91576	2-Methylnaphthalene	66 nc	1,700 nc	350 nc
91203	Naphthalene	4.2 (M) ca	67 (M) ca	25 ca
109660	Pentane	40 (M) nc	36 (M) nc	35,000 nc
85018	Phenanthrene	9.5 nc	1,700 nc	3.5 nc
1336363	Polychlorinated biphenyls (PCBs)	3.1E-02 (M) (J) ca	DATA	8.5 (J) ca
103651	n-Propylbenzene	43 (DD) dev	1,800 (DD) dev	33,000 (DD) dev
129000	Pyrene	140 (S) sol	2.5E+07 nc	3,500 nc
100425	Styrene	33 ca	150 ca	1,500 ca
108883	Toluene	300 (FF) st	3,700 nc	1.7E+05 nc
540841	2,2,4-Trimethyl pentane	160 nc	130 (M) nc	1.2E+05 nc
526738	1,2,3-Trimethylbenzene	43 (JT) nc	270 (JT) nc	2,100 (JT) nc
95636	1,2,4-Trimethylbenzene	25 (JT) nc	150 (JT) nc	2,100 (JT) nc
108678	1,3,5-Trimethylbenzene	18 (JT) nc	100 (JT) nc	2,100 (JT) nc
1330207	Xylenes	75 (J) nc	280 (J) nc	7,600 (J) nc

FOOTNOTES

**Soil vapor site-specific volatilization to indoor air criteria (SSVIAC) are applicable for all depths.

- Acceptable Air Values (AAV) endpoint basis used for SSVIAC: (**ca**) = Carcinogenic; (**nc**) = Non-Carcinogenic; (**dev**) = Developmental; (**mut**) = Mutagenic cancer; (**st**) = Short-term (i.e., less than chronic exposure).
- Footnote (**#**): Acceptable air concentrations (AAC) cannot be adjusted to a 12-hour exposure time for hazardous substance.
- Footnote **AA**: Health-based groundwater SSVIAC are not available due to insufficient toxicological data. Dissolved-phase methane in groundwater is not explosive; however, if liberated and allowed to accumulate in an enclosed structure the principle health and safety concerns are explosive, flammable, and asphyxiant properties of gas phase methane. The acceptable groundwater concentration is the flammability and explosivity screening level (**FESL**) of 10,000 µg/L.
- Footnote **C**: The health-based SSVIAC exceeds the chemical-specific soil saturation screening level (**Csat**). Because this table does not list Csat values both were provided, with the calculated (health-based) value listed first and Csat provided in parenthesis. The person proposing or implementing response activity must document whether additional response activity is required to control non aqueous phase liquid (**NAPL**) to protect against risks associated with NAPL by using methods appropriate for the NAPL present.
- Footnote **CC**: Insufficient chemical-physical input parameters have been identified to allow the development of a health-based SSVIAC using standard methods. The health based SSVIAC for groundwater is developed based solely on the approach that the department uses for shallow groundwater. If groundwater detections are present, soil vapor may be the most appropriate media to evaluate risk posed from the VIAP.
- Footnote **DATA**: Insufficient physical chemical parameters to calculate a health based SSVIAC for specified media. If detections are present in specified media, health-based soil vapor SSVIAC should be used to evaluate risk.
- Footnote **DD**: Hazardous substance causes developmental effects. Residential SSVIAC are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Nonresidential SSVIAC are protective of prenatal exposure using a pregnant female receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.
- Footnote **EE**: The acceptable air concentration (**AAC**) for the volatile hazardous substances is not derived using standard methods. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for these hazardous substances is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a United States Environmental Protection Agency Integrated Risk Information System (IRIS) acute reference concentration, or EGLE's Air Quality Division acute initial threshold screening level (ITSL).
- Footnote **FF**: The AAC for the volatile hazardous substances are based on toxicity values that have been identified to have the potential to cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The short-term exposure for shallow groundwater health based SSVIAC are based on modification of the standard methods by the department to develop applicable shallow groundwater values.
- Footnote **GG**: Health-based SSVIAC for soil vapor are not available due to insufficient toxicological data. The soil vapor value addresses the health and safety concerns of explosive, flammable, and asphyxiant properties of gas phase methane. The acceptable soil vapor concentration is derived based on 25% of the lower explosive level (**LEL**) for methane.
- Footnote **GW**: The calculated health based SSVIAC for a hazardous substance based upon shallow groundwater is considered protective when it is greater than the calculated value for groundwater.
- Footnote **ID**: Requires further evaluation to determine the appropriate media to sample.
- Footnote **J**: Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.
- Footnote **JT**: Hazardous substance may be present in several isomer forms. The health-based SSVIAC may be used for the individual isomer provided that it is the sole isomer detected; however, when multiple isomers are detected in a medium, the isomer-specific concentrations must be added together and compared to the most restrictive health-based SSVIAC of the detected isomers.
- Footnote **M**: The health based SSVIAC may be below target detection limits (**TDL**). In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed health-based SSVIAC, the TDL is used to evaluate the risk posed from the pathway.
- Footnote **MM**: Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating health-based SSVIAC are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.
- Footnote **NA**: The hazardous substance does not meet the department's definition of a volatile; therefore, no health based SSVIAC were developed.
- Footnote **NR**: The hazardous substance has not been previously evaluated by the Remediation and Redevelopment Division Toxicology Unit. The identification, collection, and evaluation of toxicological literature and chemical-physical data cannot be completed within the timeframe requested.
- Footnote **S**: Calculated health-based SSVIAC exceeds the hazardous substance-specific water solubility limit; therefore, the water solubility limit is used to evaluate the risk posed from the pathway. When this occurs the basis for the screening level is noted as "sol".
- Footnote **TX**: The Remediation and Redevelopment Division Toxicology Unit has not identified an inhalation toxicity value for the hazardous substance.



46555Humboldt Drive, Suite 100
Novi, MI 48377
248.669.5140 | oneatlas.com

February 22, 2021

Ms Sara Nedrich
EGLE/RRD
Jackson District Office
301 East Louis Glick Highway
Jackson, Michigan 49201

via email: nedrichs@michigan.gov

RE: Initial Assessment Report
City of Ann Arbor Fuel Farm
2000 S Industrial Highway, Ann Arbor, Washtenaw County, MI
Facility ID No: 0-0010237
ATC Report No. 188EM20011.02

Dear Ms Nedrich:

ATC Group Services, LLC, on behalf of City of Ann Arbor, is pleased to provide the Michigan Department of Environment, Great Lakes, and Energy with one copy of an Initial Assessment Report prepared for the above-referenced site.

If you have any questions or comments regarding this matter, please feel free to contact the undersigned at (810) 287-1679.

Sincerely,
ATC Group Services LLC

A handwritten signature in blue ink, appearing to read "Gerard DeBusschere".

Gerard DeBusschere, CPG
Sr. Project Manager

CC: Mr. Matthew J. Kulhanek, City of Ann Arbor

RECEIVED

MAR 10 2021

EGLE - RRD
JACKSON DISTRICT OFFICE

2000 S.
Ind.

DICKINSON, WRIGHT, MOON, VAN DUSEN & FREEMAN
COUNSELLORS AT LAW
500 WOODWARD AVENUE - SUITE 4000
DETROIT, MICHIGAN 48226-3406

TELEPHONE (313) 223-3500
FACSIMILE (313) 223-3598

BLOOMFIELD HILLS, MICHIGAN
LANSING, MICHIGAN
GRAND RAPIDS, MICHIGAN
WASHINGTON, D.C.
CHICAGO, ILLINOIS
WARSAW, POLAND

KEITH J. LERMINIAUX
(313) 223-3034

May 16, 1996

VIA TELECOPIER AND REGULAR MAIL

Mr. Frank Porta
Director of Utilities
100 North Fifth Avenue
PO Box 8647
Ann Arbor, MI 48107



Re: Contract for Painting: Bid No. 2766

Dear Mr. Porta:

Our firm represents Atsalis Brothers Painting ("Atsalis") with respect to this matter. Your letter of May 13 has been forwarded to us for response.

By letter dated May 13, Atsalis advised you of its intentions with respect to this project. In particular, Atsalis advised that it was awaiting a decision from its insurance carrier, before it made a final decision with respect to future remediation efforts.

We expect to hear from the insurance carrier by early next week. We are also of the understanding that remediation cannot move forward while Atsalis is completing its work on the outside of the tank. Under the current schedule, that work should be complete on or about June 3.

As Atsalis has previously advised you, we disagree with your interpretation of environmental law as well as the contract involved. Atsalis has performed and will continue to perform consistent with its contractual obligations. Be advised that Atsalis will contest any effort made by the City to withhold funds due to Atsalis.

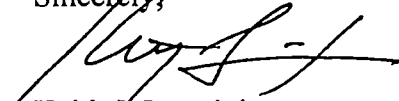
Nevertheless, we would request that the City await a decision from Atsalis' insurance carrier, which should be available in a matter of days, before the City invokes Section 23 of the contract.

Frank Porta
May 16, 1996
Page 2

DICKINSON, WRIGHT, MOON, VAN DUSEN & FREEMAN

Please feel free to contact me if you have any questions or comments.

Sincerely,



Keith J. Lermaniaux

cc: Mr. Tony Atsalakis
Mr. Sumedh Bahl
Mr. Mike Tracey
Ms. Vicki Katko

SSVIAC/SSTL QUESTIONNAIRE

FACILITY/SITE NAME AND OTHER IDENTIFIERS:

Name:
Address:
County:
Facility/Site ID:

EGLE PROJECT MANAGER AND CONTACT INFORMATION:

Name:
District:
Phone:
Email:

Requestor Information:
Gerard DeBusschere, CPG
Atlas Technical Consultants LLC
248.669.5140 - cell: 810.287.1679
gerard.debusschere@oneatlas.com
Project No. 188EM21004-02

REVIEW TIMEFRAME: Choose an item.

Justification for expediated turn arounds: Atlas needs SSTL information to make recommendations for follow-up activities.

**** This information must be completed by EGLE staff ****

SIGMA Location Code: Sub-location (if available):

Is this a new request or resubmission (highlight areas that are revised/new)?

NEW

RESUBMISSION

Information submitted to EGLE identifies that the depth to groundwater represents the shallowest depth encountered at the site (or depth of investigation if no groundwater was encountered)?

YES

¹NO

¹NO SUPPORTING DOCUMENTATION

Site-specific criteria will be calculated using the default USDA soil type of sand unless information submitted to EGLE supports using the identified USDA soil classification and includes sufficient soil borings to properly characterize the various soil types and various soil horizon thicknesses for the site.

SAND

OTHER (see below and attached documentation)

Information submitted to EGLE supports that the identified general building conditions and land use are consistent with current or proposed site conditions?

YES

²NO

²NO SUPPORTING DOCUMENTATION

Comments or clarifications:

¹Site-specific VIAC will be developed based on shallow groundwater.

²Site-specific VIAC will be developed based on unrestricted residential input parameters and the information provided.

QUESTIONNAIRE FOR SITE-SPECIFIC VIAC

Building Foundation:

- Slab-on-grade
 Basement

- Crawlspace w/ slab
 Crawlspace w/ dirt floor

If multiple foundation types are selected, are these foundations present for:

- N/A single structure multiple single-foundation structures

If > 50,000 ft² continuously open space, does the structure also have portions of < 50,000 ft² continuously open space (e.g. offices, breakrooms, etc.)?

- N/A YES NO

4 Depth below grade to first encountered groundwater (or depth of investigation if not encountered). A specific depth that is NOT an average must be provided.

____ If a crawlspace is present, the depth of construction below grade is required.

² NONRESIDENTIAL LAND USE not consistent with nonresidential criteria exposure assumptions will require more data, more coordination, and longer timeframe to develop site-specific VIAC. Nonresidential site-specific VIAC are developed for healthy adult workers with potential exposure during a workday and potential intermittent exposure of adults and children who are customers, patrons, or visitors to commercial or industrial establishments during a portion of the workday. Nonresidential criteria are not appropriate for establishments where children and other sensitive populations may be frequently present (e.g., schools, day-care, hospitals, campgrounds, recreational areas, etc.).

³ Nonresidential building size of </> 50,000 ft² is based on continuous open space and refers to the structure or a portion of the structure.

SOIL TYPE(S) PER USDA CLASSIFICATION: If the site-specific soil type is unknown or were not classified using USDA soil classification methodologies, the soil type will be based on USDA sand. If more than a single soil type is identified, the SSVIAC will be based on the USDA soil type that results in the most restrictive criteria to assure no unacceptable risk.

USCS classifications are not interchangeable for USDA Classifications

- | | |
|---|--|
| <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Sandy Clay Loam |
| <input type="checkbox"/> Sand | <input type="checkbox"/> Clay Loam |
| <input type="checkbox"/> Loamy Sand | <input type="checkbox"/> Silty Clay Loam |
| <input type="checkbox"/> Sandy Loam | <input type="checkbox"/> Sandy Clay |
| <input type="checkbox"/> Loam | <input type="checkbox"/> Silty Clay |
| <input type="checkbox"/> Silty Loam | <input type="checkbox"/> Clay |

Note: If heterogeneous soils are present with more data, more coordination, and a longer development time frame site-specific VIAC can reflect the various soil types present.

Site soils documented during site assessment activities consist of sand, clay and debris to a depth of 6-feet below grade (BG); followed by sand, med to cse, grading downward to fine at 12-feet BG; followed by clay to the maximum depth of investigation at 15-feet BG.

(313) 513-2522

2000 S.
Industrial

spoke w/ Ed Hogan on 6/25/96
Smith Environmental

a mini-workplan is being reviewed
by counsel.

adjacent property evidence points to where
release was (so work is straightforward) but

no "visual" evidence due to on-site activities
on the City property. Mini-work plan calls for
limited RI using field "meters"

PID or FID to get an idea of scope
of project for competitive bidding.

They are waiting for confirmation on the
workplan.

Jeff King is assigned staff person

Once they get an idea of scope they can bid the
project and get started.

Vicki Katko
6/25/96

Ed Hogan - Smith Environmental

Punkett + Cooney

work w/ a² & Atoalis

to verify that it's going

to be cleaned.

saw the Army Reserve

- area around tank was tarped -

new contract schedule

- working 24 hour - 7 days a week -

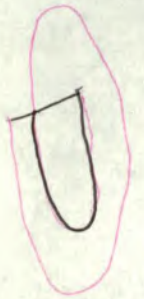
- Peel back the tarps -

Goal - Painting 6-3
done

Demoke painting after -

remove surface affected
soil

- Jeff King → (313) 513-2522
Ed Hogan →



Matt Greller -

facility manager

2000 S.
Industrial
Drive

88th RSC - CST # 1

Attention ASRC - CMN - EN - M1
(Greller)

9704

Beaumont Rd, Indianapolis
Indiana

46216 - 1026

re: 2000 S. Industrial Drive
send this to him

DATE: May 3, 1996
TO: File
FROM: Vicki Katko *Vicki Katko*
RE: DIESEL FUEL RELEASE AT 2000 S. INDUSTRIAL DRIVE

On April 21, 1996 a loss of diesel fuel was discovered at the City of Ann Arbor's DPW yard located at 2000 S. Industrial. The release impacted surface waters of the State via a storm drain and soils at the facility. The facts surrounding the release follow:

The City of Ann Arbor hired a painting company, Atsalis Brothers, to paint the inside and outside of a water tank at the yard. The water tank is owned by the Ann Arbor Water Dept. The site is a secure facility with standard security fence that is 8 ft tall with three strands of barbed wire. The inside of the tank had to be at least fifty degrees Fahrenheit in order for the painting to take place so it was necessary for the painting firm to bring in a portable heater which was powered by diesel fuel. The diesel fuel was stored in a portable 1000 gallon tank approximately twenty feet away from the water tank. Over the weekend (April 20 and 21), the fuel tank was left at the facility and the Atsalis Bros. Co. Alleged that a cap was screwed on (hand tight) on the nozzle of the tank. The lever (valve) was in the "off" position. On Sunday, April 21, 1996, the release was discovered. The valve had been opened and the cap had apparently been removed. The water tank had been vandalized with spray paint graffiti (gang related "tags") and a pop bottle allegedly filled with liquor was found at the scene by the Atsalis Bros. A board was propped up against the security fence and the grass on the opposite side of the fence appeared to have been trampled upon. It appeared that the board was used by persons unknown to gain access into the facility. The scene had the appearance that the tank was deliberately opened by the vandals although no witnesses have come forward to confirm this. Environmental Response Division does not have a copy of any police report.

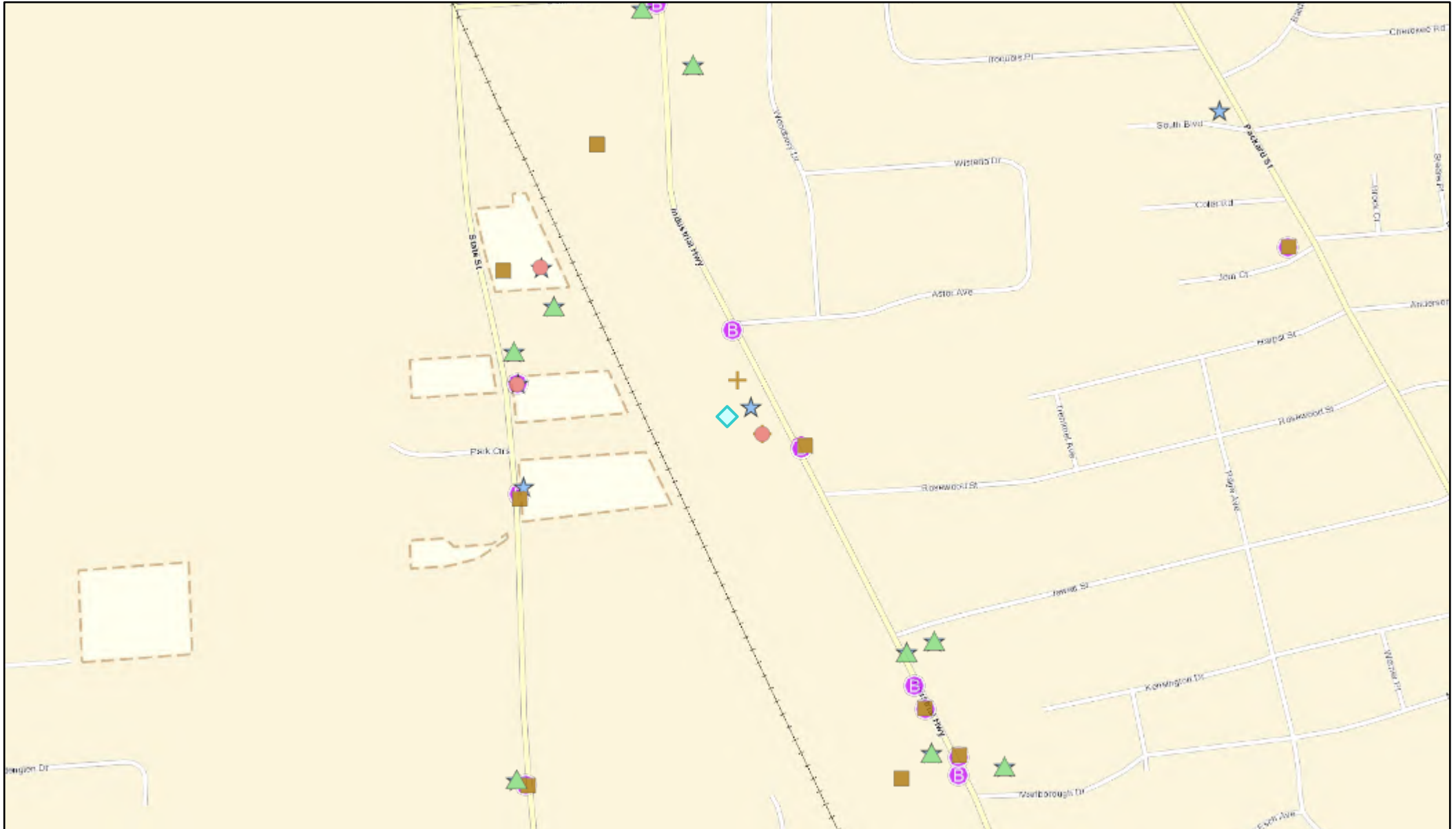
The fuel flowed onto the ground to a low spot on adjacent property owned by the Army Reserves. The fuel collected around an above grade storm sewer manhole and somehow entered the manhole. There was no evidence of staining on the top of the manhole so it does not appear that the fuel entered the manhole as a result of overtopping the above grade manhole. The fuel eventually reached surface water. Staff of the Surface Water Quality Division (SWQD) and the Washtenaw County Drain Commission staff responded to the scene. The Atsalis Bros. hired HI-PO Industrial Services to perform response activities. Booms and absorbent pads were placed in the surface waters and some excavation was initiated. SWQD staff person Brett Wisely explained the situation to me on 4-23-96 and I traveled to scene in the late morning hours. Environmental Response Division staff had been requested to respond to the issue of remaining soil contamination. It had been learned during a series of conversations with SWQD staff that the Atsalis Bros. had been directed to respond so when Environmental Response Division staff arrived on scene, it was clearly explained to the Atsalis representatives that no

assertions of liability were being made in the field by Environmental Response Division staff and that any response activity they took for the soils would be considered voluntary in nature and that the actions were only being requested, not directed or otherwise ordered. The representatives indicated a strong desire to perform whatever response activities were appropriate but they said they were waiting for their insurance adjuster to come to the site.







Since the incident, the Atsalis Bros. have involved their insurance company who has reviewed the circumstances of the release. It is the opinion of the insurance adjuster, Fred Nicoll, that the that their insured clients do not have liability in this matter but he added the investigation is still ongoing. They have, therefore, directed HI-PO to cease and desist their response activities. Further, they have urged the City and the adjacent property owners to undertake response activities. It is not yet clear who, if anybody, will take additional response activities. However, the president of HI-PO, Aaron Smith, contacted staff of Environmental Response Division and asked what type of confirmation sampling would be required in the event of a soil removal. Mr. Smith then explained that he was to attend a meeting with the Atsalis company and the Dragun Corporation. Mr. Smith then explained what was happening in terms of HI-PO's involvement; that they were asked to stop working by their client but that Washtenaw County Drain Commission staff have told HI-PO to keep their equipment in place. A verbal determination of liability has been provided to District Environmental Response Division staff from the C & E Section in Lansing. It is their opinion that the Atsalis Bros. do not have Part 201 liability in this matter. Due to this fact, HI-PO was told that they should do what their clients have requested, i.e., cease response activities.

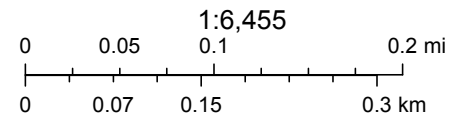
Jackson District Supervisor Mary Ellen Cromwell has been informed of ERD's conversation with HI-PO and ERD's preliminary determination of liability. At this point in time, Environmental Response Division is not considering undertaking response activities to remove the contaminated soils, in light of the fact that 2000 S. Industrial is already a UST site and there has been a free product problem (gasoline) previously noted at the site, according to staff of the Underground Storage Tank Division.

Environmental Mapper



February 21, 2022

- | | | | |
|--|-----------------------------------|---|---|
|  | Baseline Environmental Assessment |  | Sites of Environmental Contamination (Part 201) |
|  | Closed Tanks |  | Open |
|  | Active Tanks |  | Closed |



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Storage Tank Facilities

Facility ID	Facility Name	Address	City	Zip Code	County	District	Latitude	Longitude	Method of Collection	Date of Collection	Accuracy Value	Accuracy Value Unit	Source	Horizontal Datum	Desc Ca
00010237	Utilities Dept/Field Services	2000 S INDUSTRIAL HWY	ANN ARBOR	48104	Washtenaw	Jackson	42.255645	-83.735927	GPS Code Meas. Standard Positioning Service SA Off	2004-03-11 00:00:00	40	FEET	State of MI	NAD83	Plan Entr (Frei
00010237	Utilities Dept/Field Services	2000 S INDUSTRIAL HWY	ANN ARBOR	48104	Washtenaw	Jackson	42.255645	-83.735927	GPS Code Meas. Standard Positioning Service SA Off	2004-03-11 00:00:00	40	FEET	State of MI	NAD83	Plan Entr (Frei

Show rows: ▼

Results: 1 - 2 of 2



Quick Search

Advanced Search

Site ID

Recent Sites

Site Contacts

407823 / MID985652635 CITY OF ANN ARBOR 2000 S INDUSTRIAL HWY, ANN ARBOR, MI 48104

Site

Site Name

CITY OF ANN ARBOR

Site Identification

WDS ID Number:	407823	History...
Site ID Number:	MID985652635	History...
Legal Site Name:	CITY OF ANN ARBOR	History...
Specific Site Name:	CITY OF ANN ARBOR	History...
District:	JACKSON	

Address Identification

Location Address	Mailing Address
2000 S INDUSTRIAL HWY ANN ARBOR MI 48104-6120	PO BOX 8647 ANN ARBOR MI 48107-8647
History...	History...

Miscellaneous

Tax Number:	History...
No Number Because:	Out of Business

GPS Coordinates (provide five decimal places)
Latitude Coordinate:
Longitude Coordinate:
Collection Method:

Receives All Waste?:	No
Railroad?:	No
Facility on Indian Reservation Land?:	No
Utilization Activities:	
Scrap Tires Activities:	
Scrap Tires Acres:	
NAICS Codes (up to four six-digit codes):	
(The list of NAICS codes in WDS is based on the 2007 definitions provided by the U.S.Census Bureau.)	
92111 - Executive Offices	

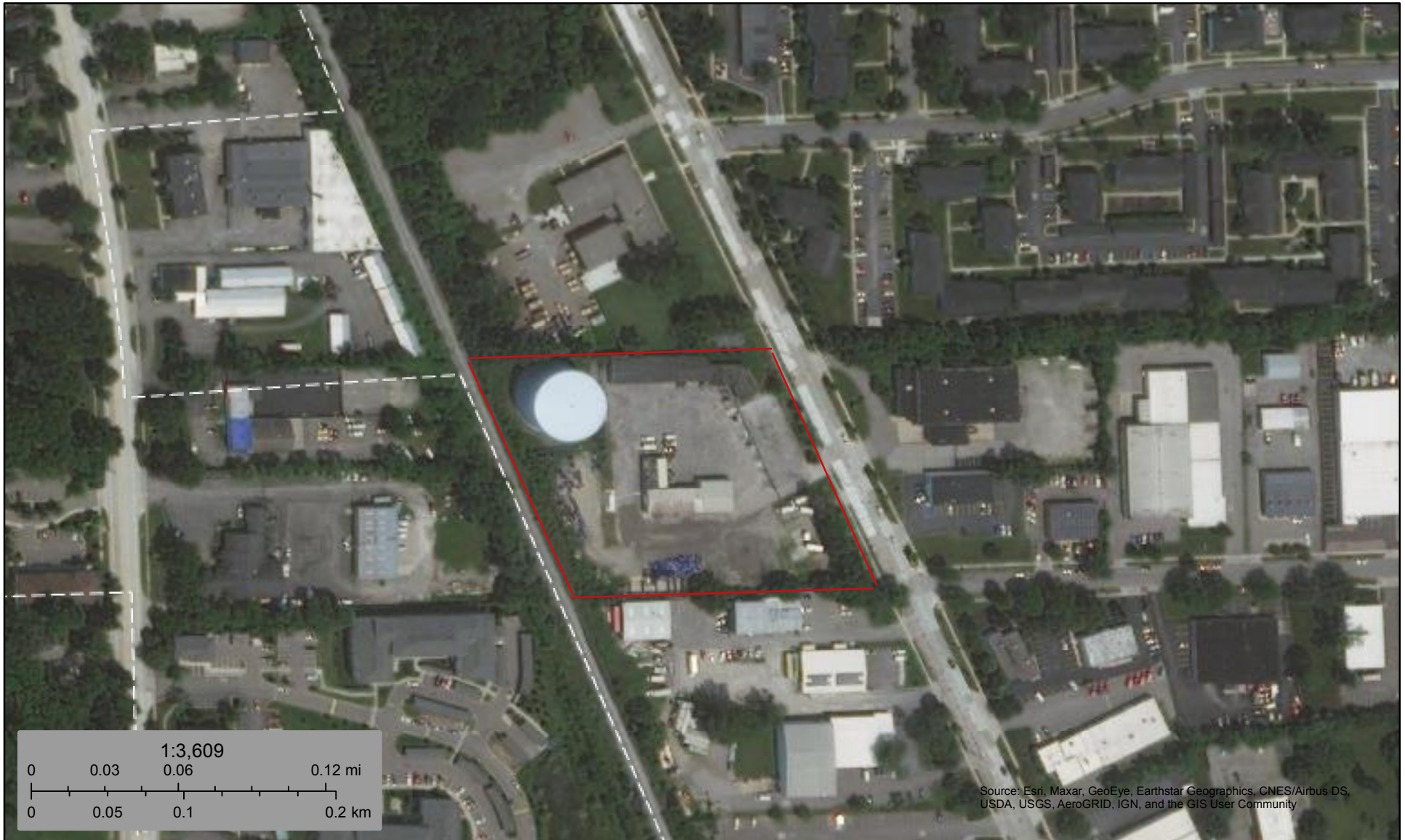
Haz Waste Contact

First Name:	MICHAEL	M.I.:	K
Last Name:	BERGREN		
Phone Number:	(734) 994-4918	Ext:	Fax: (734) 994-0742
Alternate Phone:			
Email Address:	MBERGREN@A2GOV.ORG		

Owner/Operator (1)	Activities (2)	Site ID Fees (0)	Comments (2)
Petitions (0)	Used Oil Biennial Reports (0)	Parceling (0)	Institutional Controls (0)
Exemptions (0)			
Discovery Date	Source of Information	Summary	
8/1/2007	Site	Site out of business and no waste generation	
10/19/1992	Site	Generator Status: SQG	








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Version 1.2.0.4135-W



February 25, 2022

Wetlands

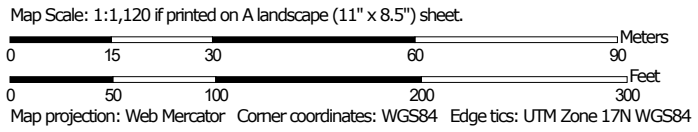
- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Soil Map—Washtenaw County, Michigan



Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Washtenaw County, Michigan

Survey Area Data: Version 20, Sep 2, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 10, 2020—Aug 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MdA	Matherton sandy loam, 0 to 4 percent slopes	4.3	97.2%
Sb	Sebewa loam, disintegration moraine, 0 to 2 percent slopes	0.1	2.8%
Totals for Area of Interest		4.4	100.0%

Washtenaw County, Michigan

MdA—Matherton sandy loam, 0 to 4 percent slopes

Map Unit Setting

National map unit symbol: 6ff2

Elevation: 570 to 980 feet

Mean annual precipitation: 33 to 40 inches

Mean annual air temperature: 48 to 55 degrees F

Frost-free period: 140 to 180 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Matherton and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Matherton

Setting

Landform: Drainageways on glacial drainage channels, drainageways on terraces, drainageways on outwash plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Convex

Typical profile

H1 - 0 to 9 inches: sandy loam

H2 - 9 to 32 inches: gravelly sandy clay loam

H3 - 32 to 60 inches: sand

Properties and qualities

Slope: 0 to 4 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Available water supply, 0 to 60 inches: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B/D

Ecological site: F111BY403IN - Outwash Upland

Hydric soil rating: No

Minor Components

Fox

Percent of map unit: 5 percent

Landform: Knolls on glacial drainage channels, knolls on terraces,
knolls on outwash plains, knolls on kames, knolls on moraines

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Convex

Ecological site: F111BY404IN - Dry Outwash Upland

Hydric soil rating: No

Wasepi

Percent of map unit: 5 percent

Landform: Drainageways on outwash plains, drainageways on
glacial drainage channels, drainageways on deltas,
drainageways on lake plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Convex

Ecological site: R111BY402IN - Dry Outwash Integrate

Hydric soil rating: No

Data Source Information

Soil Survey Area: Washtenaw County, Michigan

Survey Area Data: Version 20, Sep 2, 2021

Washtenaw County, Michigan

Sb—Sebewa loam, disintegration moraine, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2v4bw
Elevation: 570 to 1,070 feet
Mean annual precipitation: 30 to 40 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 110 to 170 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Sebewa and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sebewa

Setting

Landform: Drainageways, drainageways on stream terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Loamy drift over sandy and gravelly outwash

Typical profile

Ap - 0 to 11 inches: loam
Btg1 - 11 to 21 inches: clay loam
Btg2 - 21 to 33 inches: clay loam
2Cg - 33 to 79 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 23 to 39 inches to strongly contrasting textural stratification
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 45 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B/D

Ecological site: R111BY401IN - Wet Outwash Mollisol

Hydric soil rating: Yes

Minor Components

Matherton

Percent of map unit: 6 percent

Landform: Drainageways on stream terraces, drainageways

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: F111BY403IN - Outwash Upland

Hydric soil rating: No

Gilford

Percent of map unit: 4 percent

Landform: Drainageways, drainageways on stream terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: R111BY401IN - Wet Outwash Mollisol

Hydric soil rating: Yes

Data Source Information

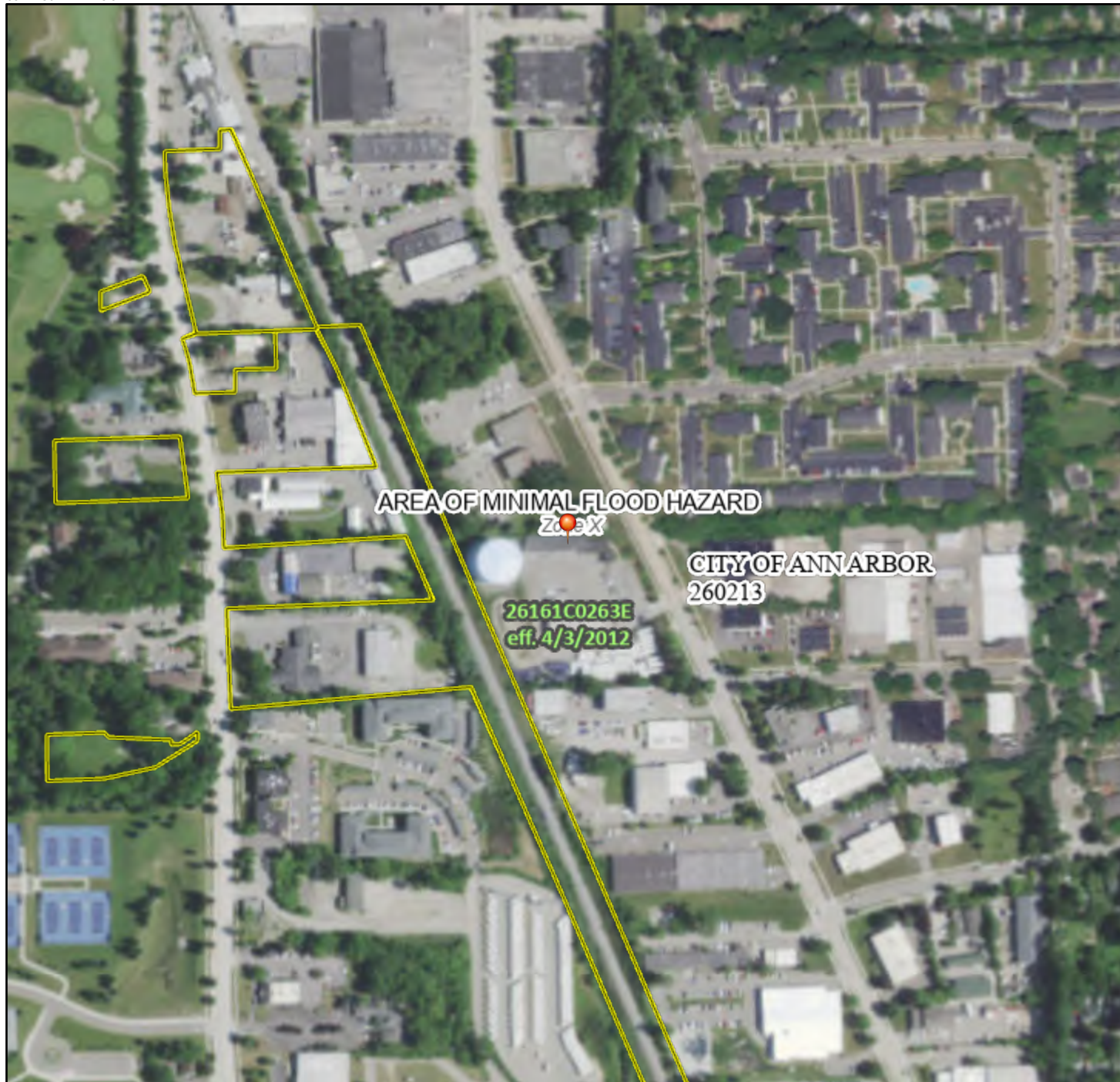
Soil Survey Area: Washtenaw County, Michigan

Survey Area Data: Version 20, Sep 2, 2021

National Flood Hazard Layer FIRMMette



83°44'30"W 42°15'34"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	
	Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
	With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
	Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD	
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
	Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
	Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
	Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS	
	NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
	Effective LOMRs
	Area of Undetermined Flood Hazard <i>Zone D</i>

GENERAL STRUCTURES	
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall

OTHER FEATURES	
	20.2 Cross Sections with 1% Annual Chance
	17.5 Water Surface Elevation
	Coastal Transect
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature

MAP PANELS	
	Digital Data Available
	No Digital Data Available
	Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/25/2022 at 1:01 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL
 County WASHI Twp. PITTSFIELD Fraction 1/4 NE 1/4 NE 1/4 Section No. 4 Town 3 Range 6
~~Ann Arbor~~

Distance And Direction from Road Intersections _____ OWNER No. _____
 Street address & City of Well Location 1565 Eastover Ann Arbor
3 OWNER OF WELL
 Name DAVE R. LOFF
 Address 1565 EASTOVER ANN ARBOR

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>Yellow Sand</u>	<u>10</u>	<u>10</u>
<u>Blue clay</u>	<u>2</u>	<u>12</u>
<u>Coarse sand</u>	<u>38</u>	<u>50</u>
<u>Coarse sand</u>	<u>6</u>	<u>56</u>

4 WELL DEPTH: (completed) 56 ft. Date of Completion _____
5 Cable tool Rotary Driven Dug
 Hollow rod Jetted Bored _____

6 USE: Domestic Public Supply Industry
 Irrigation Air Conditioning Commercial
 Test Well _____

7 CASING: Diam. Threaded Welded Height: Above/Below surface _____ ft.
4 in. to 52 ft. Depth Weight 11 lbs/ft.
 _____ in. to _____ ft. Depth Drive Shoe? Yes No

8 SCREEN:
 Type: Reel Brass Dia.: 4"
 Slot/Gauze 20 Length 4'
 Set between 52 ft. and 56 ft.
 Fittings: Heavy Plug 1' Black

9 STATIC WATER LEVEL
20 ft. below land surface

10 PUMPING LEVEL below land surface
40 ft. after 2 hrs. pumping 12 g.p.m.
 _____ ft. after _____ hrs. pumping _____ g.p.m.

11 WATER QUALITY in Parts Per Million:
 Iron (Fe) _____ Chlorides (Cl) _____
 Hardness _____

12 WELL HEAD COMPLETION: In Approved Pit
 Pitless Adapter 12" Above Grade

13 GROUTING:
 Well Grouted? Yes No
 Material: Neat Cement 80 vol. 1/2 Portland
 Depth: From _____ ft. to _____ ft.

14 SANITARY:
 Nearest Source of possible contamination 50 feet S Direction Sytle Type _____
 Well disinfected upon completion Yes No

15 PUMP:
 Manufacturer's Name Gould
 Model Number VE11 HP 1/2
 Length of Drop Pipe 41 ft. capacity 10 G.P.M.
 Type: Submersible _____
 Jet Reciprocating

16 Remarks, elevation, source of data, etc.
Replacement Well

17 WATER WELL CONTRACTOR'S CERTIFICATION:
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
P.B. Stasser well Drilling Co. 0380
 REGISTERED BUSINESS NAME REGISTRATION NO.
 Address 715 Cambridge St.
 Signed P. B. Stasser Date Sept 30, 67
 AUTHORIZED REPRESENTATIVE

CITY OF ANN ARBOR

2020 Water Quality Report



WHAT'S INSIDE:

- A Message to Our Customers, page 2
- About This Report, page 3
- Water Quality Data, page 4-5
- Contaminants of Concern, page 6-7
- Abbreviations and Definitions, page 7
- Kids' Activities, page 10



A²H₂ 
Quality Water Matters

A MESSAGE TO OUR CUSTOMERS

Summarizing 2020 Water Quality Test Results



Protecting Safe Drinking Water: Keeping Our Customers Informed

Dear Customers,
We, at the City of Ann Arbor Water Treatment Services Unit, are pleased to share with you our annual drinking water quality report. The U.S. Environmental Protection Agency (EPA) and Michigan Department of the Environment, Great

Lakes, and Energy (EGLE) require that all water suppliers produce an annual report that informs its customers about the quality of their drinking water. **This report explains where your drinking water comes from, what is in it and how we keep it safe.**

One cannot reflect on 2020 without recognizing the tragedy that our nation and the world faced associated with the global COVID-19 pandemic. I know that in one way or another this has touched each and every one of our customers, whether it was the loss of loved ones, shuttering of businesses and schools, inability to congregate with family, canceling travel, and of course the challenges associated with working and living in a world where the risk of exposure to a deadly and invisible virus threatens us every day. Can there be a bright side to such a tragic experience?

As we navigate 2021 and hopefully begin to return to what we remember as our pre-pandemic normal life, there will be scars from 2020 that we will carry for years to come. But, we have also demonstrated our resiliency and our ability to solve problems, work virtually, and continue to provide to the best of our ability essential services to our community. Vaccines were developed and distributed in record time, likely saving hundreds of thousands of lives. While this may be one of the most significant achievements of the past year, I expect we can each point toward our own individual hurdles that we have overcome. I would like to take this opportunity to share just a few accomplishments by those who operate and maintain your water system.

Under the direction of Glen Wiczorek, the city's senior engineer responsible for managing capital infrastructure projects for the water system, the city completed an ultraviolet light (UV) disinfection system (pictured on cover). This project will improve the city's ability to remove microbial pathogens from its source water. By adding UV disinfection to the water plant's suite of disinfection capabilities, this project adds an important tool to address known and potential future risks to the city's water supply. With this additional treatment capability, Ann Arbor's water system becomes one of the most advanced

.... 2020 Water Quality continued on page 8

Important Information for Businesses or Homes Temporarily Unoccupied due to COVID-19

The City of Ann Arbor uses chloramines to disinfect the water, which is a long lasting and effective disinfectant. However, when water sits stagnant in homes or buildings that are vacant or under occupied, water quality may become a concern. As homes and buildings are reoccupied, the city recommends the following best practices:

HOMES OR RESIDENTIAL BUILDINGS

1. Home flushing: Remove aerators from all faucets. Bypass heaters, softeners, filters or any other treatment devices if possible. Starting at the lowest faucet in the home, turn on all cold water taps, including tubs and showers. Leave all faucets on for at least 30 minutes. Turn off faucets in the same order in which they were turned on. Clean and re-install aerators.

2. Hot water heaters and hot water plumbing: After home flushing is complete, flush the hot water heater. Flush the hot water heater by opening the drain valve and flushing via a hose to a floor drain or sink for 30 minutes. If the drain valve is not functional or if there is a concern about it not reclosing after it is opened, run hot water at the nearest fixture to the hot water heater for 30 minutes. After flushing the hot water heater, turn on all hot water taps for 10 minutes to flush hot water system plumbing.

3. Other water collection sites: Before using, clean decorative water features, as well as ice makers, water coolers, and other appliances that store water with a bleach solution.

BUSINESSES OR COMMERCIAL BUILDINGS

1. Building flushing: Run water at all points of use, starting from closest to the water meter and moving to the furthest point from the meter. Flush cold water first at all fixtures within the building and then hot water at all fixtures, until all pipes have fresh water and

.... 2020 COVID-19 continued on page 8

ABOUT THIS REPORT

This report covers the drinking water quality for the City of Ann Arbor (Water Supply Serial Number 0220) for the 2020 calendar year. The State of Michigan and the U.S. EPA require us to test our water on a regular basis to ensure its safety. We met all the monitoring and reporting requirements for 2020. The information provided is a snapshot of the quality of the water we provided to you in 2020. Included are details about where your water comes from, what it contains, and how it compares to United States Environmental Protection Agency (U.S. EPA) and State standards. In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants in water does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 800.426.4791.

Contaminants that may be present in source water include:

- Microbial contaminants such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife
- Inorganic contaminants such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems
- Radioactive contaminants which can be naturally occurring or be the result of oil and gas production and mining activities

The sources of drinking water - both tap and bottled - include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Source Water Assessment Program:

Federal regulations require states to develop and implement Source Water Assessment Programs (SWAP) to compile information about potential sources of contamination to their source water supplies. This information allows us to better protect our drinking water sources. In 2004, MDEQ performed a Source Water Assessment on the city's system. To obtain a copy of the assessment, request one by calling 734.794.6320.

In 2017, the city completed a Surface Water Intake Protection Plan (SWIPP). Implementation of this plan continues through system-wide data collection and monitoring, community staff training, contingency planning, public outreach, and vegetation management. If you have further questions about the city's SWIPP, please visit the city's website at: www.a2gov.org/departments/systems-planning/programs/Pages/SWIPP.aspx



The City of Ann Arbor's source water is comprised of both surface and ground water sources. About 85% of the water supply comes from the Huron River with the remaining 15% provided by multiple wells. The water from both sources is blended at the Water Treatment Plant.

WATER QUALITY DATA

The City of Ann Arbor is committed to providing exceptional water quality. We routinely monitor for contaminants in your drinking water according to federal and state standards. Many additional parameters were tested, but not detected, and are not included in this report. This report includes information on all regulated drinking water parameters detected during calendar year 2020. The state allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All the data is representative of the water quality, but some may be more than one year old. The tables below list all the drinking water contaminants that we detected during the 2020 calendar year. Unless otherwise noted, the data presented in these tables is from testing done Jan. 1 through Dec. 31, 2020.

Regulated Contaminants Detected (abbreviations and definitions on page 7)

Parameter Detected	Your Water Results		Regulatory Requirements		Violation (Yes/No)	Typical Source of Contaminant
	Highest Level Detected	Results Range	EPA/EGLE LIMIT MCL, TT, or MRDL	EPA GOAL MCLG or MRDLG		
Per- and polyfluoroalkyl substances (PFAS)						
Perfluorohexanoic acid (PFHxA) (ppt)	7.2	<2.0 – 7.2	400,000	N/A	No	Firefighting foam; discharge and waste from industrial facilities.
Perfluorooctanesulfonic Acid (PFOS) (ppt)	3.1	<2.0 – 3.1	16	N/A	No	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities
Disinfection Byproducts, Disinfectant Residuals, and Disinfection Byproduct Precursors						
Bromate	5.2 ppb ¹	<1.0 – 5.8 ppb	10	0	No	Byproduct of ozone disinfection
Chloramines ³	2.5 ppm ¹	1.0 – 3.4 ppm	MRDL: 4	MRDLG: 4	No	Disinfectant added at Water Plant
Haloacetic Acids (HAA5) ^{2,3}	7 ppb ²	2.8 – 9.5 ppb	60	N/A	No	Byproduct of drinking water disinfection
Total Organic Carbon (TOC)	58% removed ⁵	51 – 62% removed	TT: 25% minimum removal	N/A	No	Naturally present in the environment
Total Trihalomethanes (TTHM) ^{2,3}	4 ppb ²	0.95 – 6.3 ppb	80	N/A	No	Byproduct of drinking water disinfection
Radiochemical Contaminants (tested in 2020)						
Gross Alpha	0.933 ± 0.47 pCi/L	N/A	15	0	No	Erosion of natural deposits
Radium 226 and 228	2.00 ± 0.85 pCi/L	N/A	5	0	No	Erosion of natural deposits
Inorganic Contaminants						
Barium	18 ppb	N/A	2000	2000	No	Erosion of natural deposits; Discharge of drilling wastes; Discharge of metal refineries
Fluoride	0.76 ppm	0.32 – 0.76 ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate	0.6 ppm	0.2 – 0.6 ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks and sewage; Erosion of natural deposits
Nitrite	0.081 ppm	<0.025 – 0.081 ppm	1	1	No	Runoff from fertilizer use; leaching from septic tanks and sewage
Microbiological Contaminants						
Turbidity	0.23 NTU	100% of samples ≤ 0.3 NTU	1 NTU and 95% of samples ≤ 0.3 NTU	N/A	No	Naturally present in the environment
2020 Lead and Copper Results from Customer Faucets						
Copper ⁴	100 ppb (90% of samples ≤ this level)	3.3 – 93 ppb (0 out of 51 sites above action level)	1300	1300	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead ⁴	1 ppb (90% of samples ≤ this level)	<1.0 – 23 ppb (1 out of 51 sites above action level)	15	0	No	Lead service lines; Corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits

¹ highest running annual average

² highest locational running annual average

³ measured in the distribution system

⁴ Lead and Copper are regulated by action levels ⁵ Average percent removal

WATER QUALITY DATA

2020 Special Monitoring

Parameter Detected (units)	Your Water Results		Typical Source of Contaminant
	Average Level Detected	Range	
1,4-Dioxane (ppb)	<0.12	<0.12	Groundwater contamination from manufacturing process and landfills
N-Nitrosodimethylamine (NDMA) (ppb)	<10	N/A	Byproduct of disinfection
Perchlorate (ppb)	<4.00	N/A	Nitrate fertilizer runoff; contamination from industrial manufacturing process
Sodium (ppm)	61	34-84	Erosion of natural deposits

Other Water Quality Parameters of Interest

Parameter Detected (units)	Your Water Results	
	Average Level Detected	Range
Alkalinity, total (ppm as CaCO ₃)	62	40 – 122
Aluminum (ppm)	0.019	N/A
Ammonia as N (ppm)	<0.10	<0.10 – 0.20
Arsenic (ppb)	<1.0	N/A
Calcium (ppm)	29	18 – 55
Chloride (ppm)	108	81 – 168
Chromium (total) (ppm)	<2.0	N/A
Conductivity (µmhos/cm)	590	483 – 791
Hardness (CaCO ₃) (ppm)	121	86 – 200
Hardness (CaCO ₃) (gpg)	7.1	5.0-11.7
Iron (ppm)	<0.025	<0.025 – 0.13
Lead (ppb) (at Water Treatment Plant tap)	<1.0	N/A

Parameter Detected (units)	Your Water Results	
	Average Level Detected	Range
Magnesium (ppm)	13	5 – 19
Manganese (ppb)	2.4	<1.2 - 38
Mercury (ppb)	<0.20	N/A
Non-Carbonate Hardness (ppm)	59	23 – 95
pH (S.U.)	9.3	8.9 – 9.5
Phosphorus, total (ppm)	0.26	<0.05 – 0.42
Potassium (ppm)	3.3	N/A
Sulfate (ppm)	51	36 – 65
Temperature (° Celsius)	15.0	5.9 – 30.1
Total solids (ppm)	349	272 – 442
Zinc (ppb)	<5.0	N/A
Nitrite in distribution (ppm)	0.051	<0.025- 0.190



DO I NEED TO TAKE ANY SPECIAL PRECAUTIONS?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at: 800.426.4791.

CONTAMINANTS OF CONCERN

PFAS

Per- and polyfluoroalkyl substances (PFAS), are a group of chemicals that have been classified by the EPA as an emerging contaminant. PFAS have been around since the 1950s, but we didn't know much about their effects until the early 2000s, when scientists began releasing data on PFAS health impacts and their persistence in the environment. For decades, they have been used in many industrial applications and consumer products such as carpeting, waterproof clothing, upholstery, food paper wrappings, fire-fighting foams, and metal plating. They are still widely used today. PFAS have been found at low levels both in the environment and in blood samples of the general U.S. population. PFAS are persistent, which means they do not break down in the environment. They also bioaccumulate, meaning the amount builds up over time in the blood and organs.

Samples collected by the city and analyzed by an independent lab each month have shown PFAS in Ann Arbor drinking water at levels significantly below the Health Advisory Level established by EPA and below the Maximum Contaminant Levels (MCLs) that the State of Michigan adopted on Aug. 3, 2020. The city continues to monitor for PFAS compounds and remains committed to providing safe drinking water that complies with or is lower than regulatory guidelines.

Currently, granular activated carbon (GAC) filtration is the best available technology for removing PFAS in drinking water. Use of this technology has allowed the city to produce water with concentrations of PFOS and PFOA below the quantification limits and far below the city's target of less than 10 parts per trillion, more restrictive than the most stringent water quality levels established in the U.S. or around the world. Additional information and PFAS results are online at www.a2gov.org/departments/water-treatment/Pages/PFAS-Information.aspx.

LEAD

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Ann Arbor is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800.426.4791 or at <http://water.epa.gov/drink/info/lead>

Infants and children who drink water containing lead could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

1,4-DIOXANE

Gelman Sciences (now Pall Corp., a division of Danaher Corp.) polluted groundwater in parts of Washtenaw County, including parts of the city as well as Ann Arbor and Scio Townships, when it improperly disposed of industrial solvents containing 1,4-dioxane between 1966 and 1986. That pollution has since spread through the aquifer. The city has been engaged with neighboring communities and the state to, among other things, push Gelman to delineate, contain and clean up its pollution. After three years, attempts at reaching a negotiated settlement that is agreeable to all parties were not successful. While there is still active litigation in Washtenaw County Circuit Court as part of a suit brought by the state against Gelman, Ann Arbor City Council has voted to seek EPA intervention in the clean-up. As of the writing of this update, EPA involvement has not yet been confirmed. Additional and current information on the status of the clean-up can be found at www.a2gov.org/departments/water-treatment/Pages/Gelman-1,4-Dioxane-Litigation.aspx. Information also is available on the EPA's website at www.epa.gov/mi/gelman-sciences.

Analytical test results for both the city's source and finished drinking water can be found at www.QualityWaterMatters.org.

..... see the next page for additional information.

CONTAMINANTS OF CONCERN

CRYPTOSPORIDIUM

Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100% removal. Our testing indicates the presence of these organisms in our source water, but not in the finished water. Current test methods do not allow us to determine if the detected organisms in our source water are capable of causing disease or if they are dead. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Most healthy individuals can overcome the disease within a few weeks. Immunocompromised people are at greater risk of developing severe illness and are encouraged to consult their doctor regarding appropriate precautions to take to prevent infection. Cryptosporidium must be ingested to cause disease and it may be spread through means other than drinking water. To address the occurrence of Cryptosporidium in the Huron River, the city added ultraviolet light (UV) disinfection to the water treatment process. This new technology was commissioned in summer 2020 and is the best available technology to inactivate Cryptosporidium.

ABBREVIATIONS/DEFINITIONS & MORE INFORMATION

ABBREVIATIONS & DEFINITIONS:

AL-Action Level: The concentration of a contaminant, which if exceeded, triggers treatment or other requirements a water system must follow.

CaCO₃: Calcium carbonate

GPG-Grains per Gallon: A unit of water hardness defined as 1 grain (64.8 milligrams) of calcium carbonate dissolved in one gallon of water.

MCL-Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG-Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MRDL-Maximum Residual Disinfectant Level: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG-Maximum Residual Disinfectant Level Goal: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

N/A: Not applicable. When listed under the range column, N/A indicates that only a single sample was analyzed for the year.

NTU-Nephelometric Turbidity Units: A measure of cloudiness in the water.

pCi/L: picocuries per liter (a measure of radioactivity).

ppm: parts per million or milligrams per liter.

ppb: parts per billion or micrograms per liter.

ppt: parts per trillion or nanograms per liter.

S.U.: Standard Units.

TT-Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.



STAY DRINKING WATER INFORMED

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at our website www.QualityWaterMatters.org.

The city offers multiple ways to stay informed about what is in your drinking water and how the city keeps it safe. Check out the below information resources at www.QualityWaterMatters.org.

*Sign up for Quality Water Matters [email notifications](#)

*Watch the Water Treatment Plant video

*Request a virtual Water Treatment Plant tour

*Email water@a2gov.org or call 734.794.6426 with your water questions.

Printed copies of this report are available. Please share this report with all people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand and mail.

To receive a printed copy of this report please call 734.794.6320.

.... 2020 Water Quality continued from page 2

treatment plants in the State of Michigan and enhances the quality of already award-winning drinking water.

During the past two years, the city has continued to build on its Quality Water Matters program, which involved public outreach, a new logo and a monthly newsletter, all of which can be found online at www.QualityWaterMatters.org. Visit this website to subscribe to monthly newsletter email notifications. The success of this program has exceeded our expectations with nearly 8,500 subscribers.

In the coming year, we will continue to develop and share quality water messages, however, as we expand this program, we will be broadening the scope to talk about water in a different context. Historically, water quality issues have been addressed in their silos, separating drinking water from wastewater and storm water. Current practices indicate that the lines between these historic silos is less defined. The wastewater and storm water from one community may be the drinking water supply for another. As a result, we need to be conscious of practices like source water protection, because trace contaminants in our waste streams can enter the environment and our water supply. We will continue this "One Water" discussion and campaign over the coming year in an effort to both educate and encourage our customers to take a fresh look at the Huron River watershed and protect it from contamination so it can continue to be a valuable drinking water, recreation, and environmental resource for the community.

Unfortunately, this last year has not allowed us to be open for tours and has limited our engagement with you. While a virtual tour of the water treatment plant will never replace the in-person experience, we have made this option available to groups until we can safely reopen. If you represent a community or school group and would like to have a water treatment staff member present to your group, please request a virtual tour [online](#). We look forward for the opportunity to see you in person soon.

If you have questions about this report, or water quality in the City of Ann Arbor, please contact us at 734.794.6426, email water@a2gov.org or visit www.QualityWaterMatters.org.

Sincerely,

Brian Steglitz

Brian Steglitz, PE, Manager of Water Treatment Services, F-1 Licensed Operator

.... COVID-19 continued from page 2



hot water reaches maximum temperature. At least half an hour at each point is recommended. The CDC suggests wearing a mask and gloves while flushing. Until buildings are fully occupied, weekly building flushing is recommended.

2. Hot water heaters: Follow manufacturer's instructions on hot water heater maintenance after a period of disuse and ensure water heaters are set to 120°F or higher.

3. Other water collection sites: Before using, clean decorative water features, as well as ice makers, water coolers, and other appliances that store water, with a bleach solution. Filters in drinking fountains or other devices may need to be replaced.

For more guidance, information is available via the [State of Michigan](#), the [Environmental Protection Agency](#) or the [Centers for Disease Control and Prevention](#).

Water Meter and Galvanized Line Replacement Updates

Currently, the City of Ann Arbor has two important water upgrade projects in the works: water meter replacements and water line inspection to ensure compliance with the State of Michigan's updated Lead and Copper rule.

Michigan's updated Lead and Copper Rule requires communities to locate galvanized iron service lines previously connected to lead and plan for their replacement. Galvanized iron pipes can collect lead and when disturbed, such as when utility or road work is performed, cause a release of lead into drinking water.

Currently, the City of Ann Arbor Public Works Unit is in the process of completing a materials inventory of the public and privately owned portions of water service lines. The city has historic data on the publicly owned portion and is now in the process of gathering data on the privately owned portion of the service lines.

Online Inventory Map

A [map](#) is available for the public to view the materials inventory information. As service line material is verified, the map will be updated to reflect current data. The map also reflects those lines that have been determined to be eligible for replacement. Once materials are verified, the city will know exactly how many lines it needs to replace. Residents who have service lines eligible for replacement will receive a letter in the mail.

Tips to Reduce Potential Lead Exposure

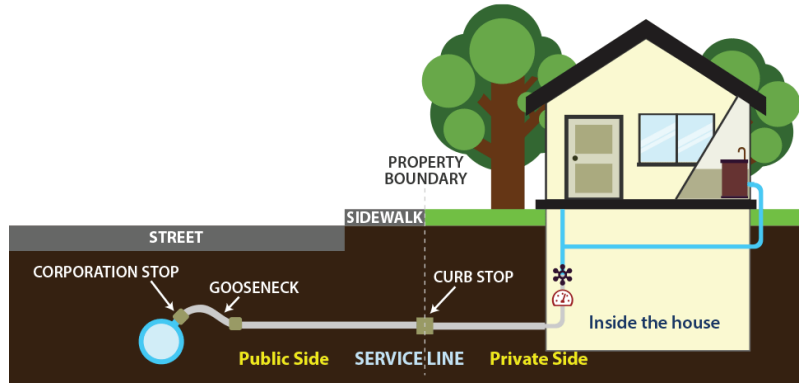
It's important to note that even if your service line is copper or plastic, there could be other sources of lead in your household plumbing. The City of Ann Arbor offers one free lead test per household. If you are interested, please visit www.a2gov.org/leadsample or contact the Water Treatment Plant at 734.994.2840 to arrange pick-up of a testing kit. Other useful information resources include:

- [Michigan Department of Environment, Great Lakes and Energy \(EGLE\) Michigan.gov/MILeadSafe](http://Michigan Department of Environment, Great Lakes and Energy (EGLE) Michigan.gov/MILeadSafe)
- [Reducing Potential Lead Exposure from Drinking Water Fact Sheet \(PDF\)](#)

Meter Replacement Project

While the COVID-19 pandemic has created hurdles to protect staff and the public, this effort must continue as it is vital to ensuring the ability to deliver safe drinking water to our customers. The city knows the trepidation some might feel letting contractors into your place of business or residence.

The contractor for this project, UMS, is taking precautions to keep you, your employees and family members safe by following strict COVID-19 safety procedures.



*If you're eligible for a free service line replacement, the city will send you a letter. If you don't get a letter, your service line is not galvanized and your line is not eligible for replacement (**that is good news for you**). You can view your material type by using the Service Line Map found at www.a2gov.org/lcr.*

SERVICE LINE INVENTORY STATUS UPDATE

# OF LEAD SERVICE LINES		UNKNOWN MATERIAL SERVICE LINES		TOTAL SERVICE LINES	
2019	2020	2019	2020	2019	2020
1	0 known	5,214	4,760	19,960	19,960

Our 2019 CCR was missing the number of lead service lines, number of service lines of unknown material, and the total number of service lines. That information is included above. If you would like a copy of the full 2019 CCR, please contact us at 734.794.6426 or water@a2gov.org. The city did not historically keep records of privately owned service lines and is in the process of collecting that data now to update the service line inventory.

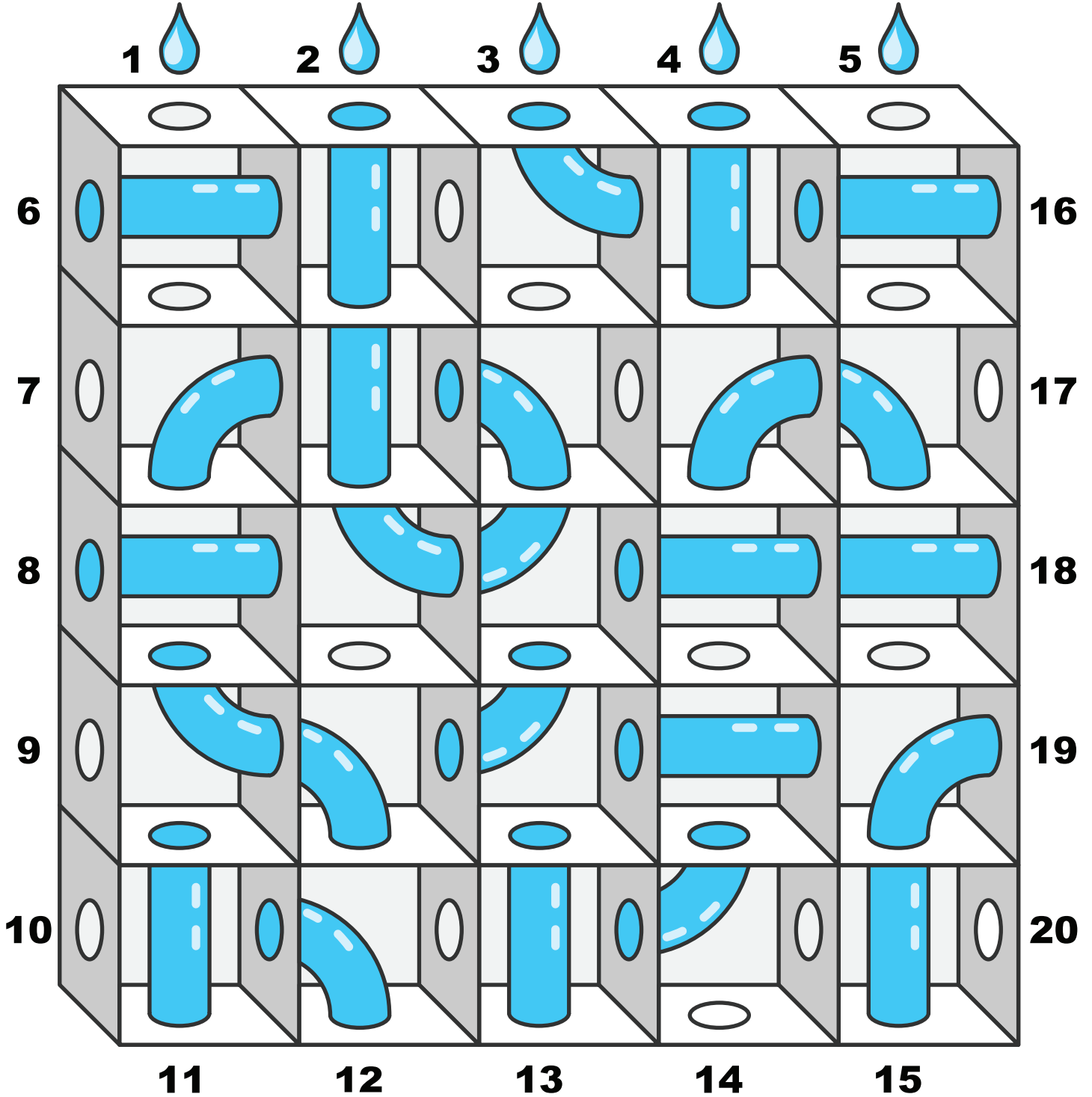
These steps include:

- Physical distancing
- Face coverings
- Use of gloves
- Routine cleaning and disinfecting of equipment
- Daily temperature checks and screening

We understand that some may still feel uncomfortable scheduling an appointment at this time. If so, please contact UMS, using the contact information in the letter you receive, to request temporarily delaying the installation. For details on the project, including an informational video, please visit www.a2gov.org/meterupgrade.

KIDS' ACTIVITIES

The front side of this water tank is transparent. Where will the water pour out if poured through hole 1? 2? 3? 4? 5?



ANSWER: 1-7, 2-13, 3-16, 4-6 and 5-17! Congrats. Did you get them all correct?