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Phase I
Environmental Assessment
Trupointe Bay Road Facility
14021 Bay Road
Wapakoneta, Ohio

Prepared For Trupointe Cooperative, Inc.

May 9, 2016

#### **EXECUTIVE SUMMARY**

Renz & Associates, Inc. was retained by Trupointe Cooperative, Inc. to perform a Phase I Environmental Assessment (ESA) of the Trupointe Bay Road Facility located at 14021 Bay Road in Wapakoneta, Ohio (Figures 1, and 2). The property is comprised of two parcels identified by the Auglaize County Auditor as parcels G213400401 and G2103303101.totaling approximately 5.37 acres. The Phase I Environmental Assessment was performed as part of a divestment due diligence effort.

The purpose of this project was to perform "All Appropriate Inquiry" regarding the presence or potential presence of hazardous wastes or fugitive liquid petroleum substances to establish the "Innocent Purchaser Defense" as defined under 42 USC § 9607 (b)(3) of the Superfund Amendment and Preauthorization Act of 1986 (SARA).

The subject site is a former bulk fertilizer plant located along the west side of Bay Road, just south of State Route 33 (Figure 1) approximately one mile east of the village of Moulton. The facility occupies approximately 5.37 acres of land and includes a combined office/scale house/dry bulk fertilizer warehouse, shop building/ chemical warehouse, an empty anhydrous ammonia tank, and a secondary containment basin associated with a former bulk liquid fertilizer tank farm. (Figure 2). Approximately 80% land surface is entirely paved with limestone gravel except for concrete pads located in several areas.

The property has electric power and telecommunications. Water is supplied by a well located east the office/scale house. Propane is used on-site as a heating fuel. Waste water is treated by a septic system.

The results of the study are summarized below:

#### • Historical Review

The property was initially developed from farm land in 1967 and has been used exclusively as a fertilizer plant. The property has most recently been owned by Terra International (1985) Land O Lakes (2000) and Auglaize Farmers Cooperative (2001).

#### • Previous Studies

Renz & Associates, Inc performed a Phase II Environmental Assessment of the facility in 2001 for Auglaize Farmers cooperative. The study found no conditions of concern that required remediation.

#### • Regulatory Review

A search of state and federal environmental data bases found no records for any properties within one mile of the facility. The property was listed as a small quantity generator of hazardous wastes under the previous owners. This listing is not a concern as it is standard for facilities which generate minimal amounts of regulated wastes, typically associated with vehicle maintenance. The facility also appears in the FINDS and STSS data bases of US EPA. These data bases are inventories and do not represent an issue of concern. The listings were for previous owners of the property.

#### • Site Inspection and Interviews

An inspection of the subject property was conducted by a representative of Renz & Associates, Inc. on April 4, 2016. The purpose of the inspection was to visually assess the site and identify any recognizable

environmental concerns. The visibility of the land surface was unobstructed at the time of the inspection.

No evidence of underground storage tanks, buried wastes, dumping of paints, solvents, lubricants or fuels or other conditions of concern were observed. Stressed vegetation was near the southwest corner of the property where run-off drains from the gravel parking lot. This is generally caused by the incidental spillage of fertilizer which becomes entrained in the gravel fill that covers the parking lot. Infiltrating water leaches the fertilizer out of the gravel, then the water collects on the top of the underlying clay soil and drains latterly to the edge of the gravel pavement. The fugitive fertilizer is generally naturally attenuated by plant-up take and is not an issue of concern. An area of black fill material is present on the north side of the parking lot. The black material is not soil staining but sand which has been brought to the facility to use as fill material.

The adjoining properties were viewed from the boundary of the subject property. No evidence of existing underground storage tanks were observed on the subject or adjoining properties. No ponds, pits or lagoons were observed on the subject or adjoining properties. No evidence of buried wastes or burning of wastes was observed on the subject or adjoining properties

Interviews were conducted with a local resident and a former facility manager. The following was reported during interviews:

- The property has been under constant use as a fertilizer plant since the mid 1960s
- No significant spills have taken place on the property.
- A previous Phase II Environmental Assessment did not reveal any conditions warranting remeidation.

# • Vapor Encroachment Potential

In accordance with ASTM 1527-13, Renz & Associates, Inc. performed a vapor encroachment screening to evaluate the potential for gas phase chemicals of concern to be present in the subsurface of the property. The screen involves identifying potential sources of petroleum or volatile organic chemicals which may have been released into the soils near the subject property. The search radius for sources of petroleum is 0.10 miles and 0.33 miles for volatile organic compounds. No sources of petroleum or organic vapors were identified

#### • Other Environmental Conditions

No wetlands were identified on the property by the National Wetlands Inventory Map. No asbestos survey was conducted. The area is categorized by US EPA as a Zone 1 for Radon. Radon is not a concern as it is not currently subject to state or federal regulations. No historic sites, known archeological sites or unique habitats for endangered species are known to be present on the property.

The results of the Phase I Environmental Assessment revealed no "*Recognized Environmental Concerns*":Based on the information available for review during the preparation of this assessment, no further study of the subject property is recommended.

The conclusions and recommendations presented are based upon the level of effort and investigative techniques using a degree of care and skill ordinarily exercised under similar conditions by reputable and qualified professionals practicing in the same or similar locality at the time of service. No other warranty, expressed or implied, is made by this report. Conclusions presented by Renz & Associates, Inc. are consistent with the Scope

of Work, level of effort specified and investigative techniques employed. Renz & Associates, Inc. makes no guarantee regarding the accuracy or completeness of any information obtained from public files, subcontractors or other sources used in this report. Additionally, Renz & Associates, Inc. makes no representations regarding the future condition of the property past the date of this report. This report was prepared for the exclusive use of Trupointe Cooperative, Inc. The contents of this report may not be used or relied upon by any other person or entity without the express written consent of Renz & Associates, Inc.

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#### 1.0 INTRODUCTION

#### 1.1 Background and Previous Investigations

Renz & Associates, Inc. was retained by Trupointe Cooperative, Inc. to perform a Phase I Environmental Assessment (ESA) of the Trupointe Bay Road Facility located at 14021 Bay Road in Wapakoneta, Ohio (Figures 1, and 2). The property is comprised of two parcels identified by the Auglaize County Auditor as parcels G213400401 and G2103303101.totaling approximately 5.37 acres. The Phase I Environmental Assessment was performed as part of a divestment due diligence effort

## 1.1.1 Previous Investigation

Renz & Associates, Inc. performed a "Phase II Environmental Assessment" of the Former Terra International, Inc. facility at 14021 Bay Road in Moulton, Ohio for Auglaize Farmers Cooperative, Inc. in November of 2000. The study was conducted in anticipation of the pending purchase of the property from Land O' Lakes, Inc. in order that the existing soil and ground water pollution could be identified for subsequent remediation by the seller. The study consisted of installing soil borings and collecting samples of soil and ground water for laboratory analysis. The sampling locations were based upon information presented in an "Environmental Walk-Through Questionnaire" dated May 11, 1999 provided by Land O'Lakes, historical information provided by the former facility manager, Ted Lee and an inspection of the property.

Seven soil borings and three temporary wells were installed during the study. Ground water was not encountered within 20 feet of the surface, therefore, no samples of ground water were collected. Samples of soil were collected from each boring and analyzed for potential pollutants associated with each location. Additionally, two composite samples of surface soil were collected from areas where evidence of spillage was observed.

No pesticides, herbicides, nitrites, solvents or petroleum compounds were detected in the samples collected during the study. Total phosphorous and total potassium concentrations were all found to fall within typical background concentrations<sup>1</sup>. An area of obvious oil staining was observed near the west corner of the shop area. A boring installed in this area indicated the impact extends less than 2.0 feet below grade. Elevated nitrates were also encountered to a depth of 10 feet below grade in GP-1 installed on the south side of the office. The State of Ohio has no regulatory based standards for herbicides pesticides, nitrates, nitrites or ammonia concentrations in soil.

<sup>&</sup>lt;sup>1</sup>T. J. Logan & R.H. Miller, February 1983, "Background Levels of Heavy Metals in Ohio Farm Soils", Research Circular 275, Ohio Agricultural Research Center, The Ohio State University

# 1.2 Purpose and Scope of the Assessment

The purpose of this project was to perform "All Appropriate Inquiry" regarding the presence or potential presence of hazardous wastes or fugitive liquid petroleum substances to establish the "Innocent Purchaser Defense" as defined under 42 USC § 9607 (b)(3) of the Superfund Amendment and Preauthorization Act of 1986 (SARA).

The scope of the investigation included identifying the following types of facilities located within the minimum search distances established under ASTM Standard Procedure E 1527-05, entitled "Environmental Site Assessments: Phase I Environmental Site Assessment Process."

- Solid and hazardous waste treatment, storage and/or disposal (T.D.) facilities.
- Sites recognized by state and/or federal agencies to be associated with uncontrolled releases of regulated hazardous substances or liquid petroleum products.
- Sites containing underground storage tanks regulated by state and/or federal programs.

The scope of the study also included reviewing historic land uses through a review of Sanborn Fire Insurance Maps, if available and property title records on file with the County Recorder's office.

## 1.3 Property Description

The subject site is a former bulk fertilizer plant located along the west side of Bay Road, just south of State Route 33 (Figure 1) approximately one mile east of the village of Moulton. The facility occupies approximately 5.37 acres of land and includes a combined office/scale house/dry bulk fertilizer warehouse, shop building/ chemical warehouse, an empty anhydrous ammonia tank, and a secondary containment basin associated with a former bulk liquid fertilizer tank farm. (Figure 2). Approximately 80% land surface is entirely paved with limestone gravel except for concrete pads located in several areas.

The property has electric power and telecommunications. Water is supplied by a well located east the office/scale house. Propane is used on-site as a heating fuel. Waste water is treated by a septic system.

#### 1.4 Investigation Methodology

The scope of the Phase I Environmental Site Assessment encompassed a visual inspection of the site and surrounding properties, the identification of regulated and unregulated hazardous waste sites and registered underground storage tanks within minimum search distances defined by ASTM

Standard Procedure E 1527-05, and the research and review of publicly accessible records. The ASTM minimum search distances used for this study are as follows:

# **Federally Regulated Sites**

National Priorities List	1.0 mile
RCRA Treatment, Storage, Disposal (T.D.) Facilities	1.0 mile
CERCIS List	0.5 mile

RCRA Generators List property and adjoining

Emergency Response Notification System (EARNS) List property only

#### **State-Regulated Sites**

State Priority List	1.0 mile
Landfill Solid Waste Disposal Site Lists	0.5 mile
Leaking Underground Storage Tank List	0.5 mile

Registered Underground Storage Tank List property and adjoining

A database search was conducted by a commercial geographic information systems (GIS) firm, for the types of facilities listed above. The research area used by EDR was one mile from the project site and is illustrated by the search area map included in the EDR report in Appendix D -EDR Database Search Results. The EDR research included those state and federal databases listed in Table 1. Copies of the EDR database report and property records are presented as appendices to this report.

Table - 1 Federal and State Databases Queried				
AGENCY	DATABASE	TYPE OF RECORD		
US Environmental Protection	National Priorities List (NPL)	Superfund Sites		
Agency	Comprehensive Environmental Response, Compensation, and Liability Act List (CERCIS)	Potential Superfund Sites		
	RCRA- Large Generators	RCRA Large Quantity Generators		
	RCRA- Small Generators	RCRA Small and Very Small Quantity Generators		
	RCRA- T.D.	RCRA Treatment, Storage, and/or Disposal Sites		
	RCRA- Trans	RCRA Transporters		
	Emergency Response Notification System (EARNS)	Federally reported releases of oil and hazardous substances		
Ohio Environmental Protection Agency	State Priority List (S.L.)	Unregulated Sites Master List		
(Ohio EPA)	Solid Waste Landfills (SELF)	Licensed Solid Waste Facilities		
State Fire Marshal, Bureau of Underground Storage Tank	Leaking Underground Storage Tanks (lusts)	Petroleum USC Release Incidents		
Regulations (BUST)	Underground Storage Tanks (USGS)	Registered USC Facility File		

#### 2.0 PHYSICAL SETTING

# 2.1 Site and Surrounding Area Land Use

The property is located in an that is under agricultural use with scattered residential properties. The property is adjoined by agricultural fields on the north, west and south. The east side is adjoined by Bay Road, a shooting range and agricultural fields.

### 2.2 Flood Insurance Rate Map

The Federal Emergency Management Agency (FEMA) flood risk map No. FM 39011C0085C dated September 6, 1989 indicates that the property lays outside of any known floodway.

# 2.3 Regional Geology and Hydrology

The study area lays within the northern portion of the Till Plains section of the Interior Lowlands physiographic province<sup>2</sup>. The site sits at an elevation of approximately 895 feet above mean sea level. The site is located on the distal portion of the western flank of the Wabash Terminal Moraine<sup>3</sup>. Local surface water drainage is to the East Fork Clear Creek which discharges to the Saint Marys River <sup>4</sup>. The bedrock under the study area belongs to the Monroe limestone formation<sup>5</sup>. The depth to bedrock in the area is generally on the order of 150 to 200 feet below the land surface. The bedrock surface is cut by a buried valley of the Teays River. The bedrock. The Monroe is not generally used as a source of water due to its high sulfur content and the availability of surface water from Grand Lake Saint Marys <sup>6</sup>.

The land surface in the study area has gently rolling topography with elevations ranging between 690 to 750 feet above mean sea level. The facility lays within the upper reaches of the north flank of the Clear Creek valley. Surface water from the facility drains south towards the East Fork of Clear Creek.

<sup>&</sup>lt;sup>2</sup>Physiographic Sections of Ohio, Ohio Department of Natural Resources, 1982

<sup>&</sup>lt;sup>3</sup>Glacial Map of Ohio, R.P. Goldthwait, G.W. White & J.L. Forsyth, 1961

<sup>&</sup>lt;sup>4</sup>Principal Streams and Their Drainage Areas, Ohio Department of Natural Resources, 1985

<sup>&</sup>lt;sup>5</sup> Geologic Map of Ohio, Ohio Department of Natural Resources, 1981

<sup>&</sup>lt;sup>6</sup>Stout, W. K. Versteeg, & G.G. Lamb, "Geology of Water in Ohio", Ohio Geologic Bulletin 44, 1943

#### 3.0 HISTORICAL REVIEW

## 3.1 Property Ownership

A full Chain-of-Title for the subject property was not available for the subject site during the time frame of the project. The history of the property was determined using historical aerial photographs, maps and interviews. The county records indicate that the facility was developed in 1967. The property has been operated exclusively as a fertilizer plant . A current property data card is presented in Appendix B.

#### 3.2 Aerial Photography Interpretation

Historical aerial photographs for the subject property and surrounding areas were reviewed for the period of 1974 through 2011. The images show the property as it exists today, with no significant changes taking place during the period of 1974 though 2011. Copies of the photographs are presented in Appendix C.

# 3.3 Historic Sanborn Fire Insurance Maps and Topographic Maps

Sanborn Fire Insurance Maps for the study were never developed due to the fact that the site is isolated within an agricultural area.

A search for historic topographic maps was made. Maps for the years 1960 and 1974 were found. The 1960 map shows the property as agricultural fields. The 1974 map shows the dry fertilizer building. Copies of the maps are presented in Appendix C.

#### 3.4 Historic City Directory Listings

Historic city directories were reviewed to determine the past use of the property and surrounding properties. No directory listings for the property were found.

# 3.5 National Registry of Historic Places

An electronic search of the National Registry of Historic Places was made on April 28, 2016 for the subject properties. No listing was found.

## 3.6 Known Archeological Sites

The Ohio Historical Society was contacted to determine if the study location was a known archeological site. At this time, the site is not known to have archeological artifacts present.

#### 4.0 REGULATORY REVIEW

A search was conducted by EDR for regulated and unregulated solid and hazardous waste facilities and registered underground storage tanks located within one mile of the study site. A summary of the EDR report is included as Appendix D -Environmental Database Search Results.

Renz & Associates, Inc. visually searched a 0.25 mile site radius in order to identify any facilities not identified in the EDR report. No indications of solid or hazardous waste sites or regulated USGS not identified by the EDR database search were found. A list-by-list summary of the EDR information is presented below.

#### 4.1 National Priorities List (NPL)

The National Priorities List (NPL), also known as the Superfund List, is the US Environmental Protection Agency's database of uncontrolled or abandoned hazardous waste sites. These sites are targeted for possible long term remedial action under the Superfund Act. The ASTM area of concern for NPL includes all properties within one mile of the subject site. The search identified no NPL sites.

#### 4.2 CERCIS List

CERCIS is a comprehensive listing of known or suspected uncontrolled or abandoned hazardous waste sites. These sites have either been investigated or are undergoing investigation by the US EPA for a release or threatened release of hazardous substances, pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). The ASTM area of concern for CERCLA includes all properties within one half mile of the subject site. No CERCLA sites were identified within a one half mile radius of the study site.

#### 4.3 RCRA

The US EPA's Resource Conservation and Recovery Act (RCRA) program identifies and tracks hazardous wastes from their place of generation to their final disposal. The *RCRA Facilities Database* is a compilation by the EPA of reporting facilities which generate, transport, treat, store or dispose of hazardous wastes. Presented below is a summary of the search results for RCRA facilities located within the prescribed distances from the subject property.

**RCRA-LQG** This report contains information pertaining to Large Quantity Generators which either generate more than 1,000 kg of hazardous waste per month or meet other applicable requirements under RCRA. The ASTM area of concern for Large Quantity Generators includes only the subject site and adjoining properties. No Large Quantity Generators are identified within the ASTM recommended area of concern.

**RCRA-SQG** This report contains information pertaining to Small Quantity Generators which either generate between 100 and 1,000 kg of hazardous waste per month or meet other applicable

requirements under RCRA. The ASTM area of concern for Small Quantity Generators includes only the subject site and adjoining properties. The subject facility is listed as a SQG. This listing is not an issue of concern, as such listings are associated with the disposal of minor amounts of regulated wastes associated with vehicle maintenance. No violations were listed. The listings were for previous owners: Land O Lakes and Terra International.

**RCRA TSD.:** This report contains information pertaining to facilities which treat, store or dispose of hazardous waste. The ASTM area of concern for TSD. facilities includes all properties within one mile of the subject site. No TSD. facilities are shown within the ASTM recommended area of concern.

## 4.4 Emergency Response Notification System (EARNS)

The Emergency Response Notification System (EARNS) is a national computer database system used to collect information on sudden and/or accidental releases of hazardous substances and petroleum into the environment. The database contains information from spill reports made to federal authorities including the US EPA, the US Coast Guard, the National Response Center, and the Department of Transportation. The ASTM area of concern for EARNS notifications includes only the subject site. The site is not listed under the EARNS program.

# 4.5 State Priority List

The State Priority List (S.L.) is a generic name for state databases that contain sites considered to be actually or potentially contaminated, and that present a potential threat to human health and/or the environment. Lists are generally maintained by each individual state to warn the public, or as a part of an investigation and cleanup program managed by the state. The ASTM area of concern for S.L. sites includes all properties within a one mile radius of the subject site. No S.L. sites were identified

#### 4.6 Licensed Solid Waste Facilities

A database is maintained by the US EPA, *Division of Solid and Infectious Wast*e of licensed solid waste facilities, including solid waste landfills, incinerators, and transfer stations. The ASTM area of concern for Licensed Solid Waste Facilities includes all properties within a half mile of the subject site. The EDR database search did not identify any solid waste facilities within one half mile of the study site.

#### 4.7 Registered Underground Storage Tanks

The Division of State Fire Marshal, Bureau of Underground Storage Tank Regulations (BUST) maintains a database of registered underground storage tanks (USGS) for each county of the state. Underground storage tanks containing heating fuels for consumptive use on site, as well as farm or residential USGS of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes are exempt from registration requirements. The ASTM recommended search distance for registered underground storage tanks specifies the project site and adjoining properties. No existing

underground storage tank systems were identified. No underground storage tank sites were identified.

#### 4.8 Petroleum Underground Storage Tank (USC) Release Incidents

The Division of State Fire Marshal, Bureau of Underground Storage Tank Regulations (BUST) maintains a database of leaking underground storage tank (LUST) incidents for the state. The ASTM minimum search distance for LUST sites includes all properties within a half mile of the subject site. No leaking tank sites were identified.

# 4.9 Spill Reports

Releases of hazardous wastes are tracked by the Ohio EPA Division of Emergency and Remedial Response (DERR). The DERR is responsible for tracking and over seeing spill and other types of release of hazardous materials and wastes from both regulated and non-regulated facilities. The agency provides a list of releases occurring within the area identified. The area of concern for spills is the subject property. No spills on the subject property have been documented.

#### 4.10 Clandestine Methamphetamine Laboratories

The US Department of Justice, Drug Enforcement Agency (DEA) maintains a national registry which 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 dump sites. In most cases, the source of the entries is not the DEA, but rather local law enforcement. Therefore, the DEA has not verified the entry and does not guarantee its accuracy. The registry currently contains no listing for the subject property.

#### 4.11 FINDS & SSTS

Fertilizer plants are regulated as potential sources of particulate air discharges. Therefore, grain elevators are listed on the state and federal data bases. FINDS is a national inventory of all environmentally regulated facilities. This system serves as a cross reference between regulatory programs. SSTS is a data base of all facilities which handle materials which is potentially hazardous such as pesticides and herbicides. The property appears in both these data bases for previous owners. This listing is not a "Recognized Environmental Concern".

#### 5.0 SITE INVESTIGATION

# 5.1 Site Inspection

An inspection of the subject property was conducted by a representative of Renz & Associates, Inc. on April 4, 2016. The purpose of the inspection was to visually assess the site and identify any recognizable environmental concerns. The visibility of the land surface was unobstructed at the time of the inspection.

No evidence of underground storage tanks, buried wastes, dumping of paints, solvents, lubricants or fuels or other conditions of concern were observed. Stressed vegetation was near the southwest corner of the property where run-off drains from the gravel parking lot. This is generally caused by the incidental spillage of fertilizer which becomes entrained in the gravel fill that covers the parking lot. Infiltrating water leaches the fertilizer out of the gravel, then the water collects on the top of the underlying clay soil and drains latterly to the edge of the gravel pavement. The fugitive fertilizer is generally naturally attenuated by plant-up take and is not an issue of concern.

An area of black fill material is present on the north side of the parking lot. The black material is not soil staining but sand which has been brought to the facility to use as fill material.

The adjoining properties were viewed from the boundary of the subject property. No evidence of existing underground storage tanks were observed on the subject or adjoining properties. No ponds, pits or lagoons were observed on the subject or adjoining properties. No evidence of buried wastes or burning of wastes was observed on the subject or adjoining properties

#### 5.2 Interviews

Interviews were conducted with a local resident and a former facility manager. The following was reported during interviews:

- The property has been under constant use as a fertilizer plant since the mid 1960s
- No significant spills have taken place on the property.
- A previous Phase II Environmental Assessment did not reveal any conditions warranting remeidation.

# 6.0 OTHER RESEARCHED CONDITIONS

# 6.1 Polychlorinated Biphenyls

Polychlorinated Biphenyls (PCBs) are commonly associated with oils contained in older electrical transformers and capacitors. In Phase I assessments, these units are considered to be of concern when they are in disrepair or are leaking. PCBs are not considered a potential environmental hazard on the subject site.

#### 6.2 Asbestos

The term asbestos is given to a group of naturally occurring fibrous, inorganic, hydrated mineral silicates. The asbestos group includes actinolite, amosite, anthophyllite, chrysolite and crocidolite. Prior to 1980, asbestos was widely used in the construction of fireproofing, insulation and soundproofing; it is still being used in a diminished capacity. No asbestos survey was made of the buildings.

#### 6.3 Radon

Radon-222 (<sup>222</sup>Rn), the nation's largest source of background radiation, is a colorless, odorless gas which originates from the decay of Uranium-238 (<sup>238</sup>U). The current EPA standard for radon is 4 Pci/l. The normal outdoor level is approximately 0.5 Pci/l.

According to the US EPA, the site is located in an area rated Radon Zone Level 1, which has a predicted average indoor screening level of greater than 4 pCi/L. However, the actual concentration of Radon which will accumulate in any proposed structure will depend heavily on such factors as building construction, ventilation and size. The EPA's Office of Radiation and Indoor Air recommends that buildings be tested for Radon regardless of geographic location or the property's zone designation. Furthermore, Radon is not currently subject to federal, state or local regulations.

#### 6.4 Wetlands

The National Wetlands Inventory maintained by the US Department of Fish and Wildlife shows no wetlands on the property. No wetland land evaluation of the property was made; however, the National Wetlands Inventory map shows no wetlands on the subject property. A copy of the National Wetlands Inventory Map for the site is presented in Appendix C.

# 6.5 Endangered Species and Unique Habitats

The Reynoldsburg, Ohio Field Office of the US Fish & Wildlife Service was contacted to determine if the study site was known to contain habitats of rare and endangered plants, animals and natural communities. It was reported that no rare and endangered plants, animals and natural communities were listed for the subject site.

# 6.6 Vapor Encroachment Potential

In accordance with ASTM 1527-13, Renz & Associates, Inc. performed a vapor encroachment screening to evaluate the potential for gas phase chemicals of concern to be present in the subsurface of the property. The screen involves identifying potential sources of petroleum or volatile organic chemicals which may have been released into the soils near the subject property. The search radius for sources of petroleum is 0.10 miles and 0.33 miles for volatile organic compounds. No sources for petroleum or organic vapors was identified.

#### 7.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify, to the extent feasible, any *recognized environmental conditions* which might be associated with the site in its present condition. *Recognized environmental conditions* are defined as the presence or likely presence of hazardous substances or petroleum products under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the property or into the ground, ground water or surface water of the property. Phase I ESAs, in conjunction with Phase II and III assessments, are intended to permit a user to satisfy one of the requirements needed to qualify for the *innocent landowner defense* to CERCLA liability; that is, practices that constitute "all appropriate inquiry into previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC §96001 (35) (B). Furthermore, it was the objective of this study to determine if the site was the location of any buildings on the National Registry of Historic Places and to determine if it was currently a known archeological site.

#### 7.1 Conclusions

The results of the Phase I Environmental Assessment revealed no "Recognized Environmental Concerns".

#### 7.2 Significant Data Gaps

No significant data gaps were encountered during the preparation of this report.

#### 7.3 Recommendations

Based on the information available for review during the preparation of this assessment, no further study of the subject property is recommended.

#### 7.4 Limitations

The conclusions and recommendations presented are based upon the level of effort and investigative techniques using a degree of care and skill ordinarily exercised under similar conditions by reputable and qualified professionals practicing in the same or similar locality at the time of service. No other warranty, expressed or implied, is made by this report. This report was prepared for the exclusive use of Trupointe Cooperative, Inc.

Conclusions presented by Renz & Associates, Inc. are consistent with the Scope of Work, level of

effort specified and investigative techniques employed. Renz & Associates, Inc. makes no guarantee regarding the accuracy or completeness of any information obtained from public files, subcontractors or other sources used in this report. Additionally, Renz & Associates, Inc. makes no representations regarding the future condition of the property past the date of this report.

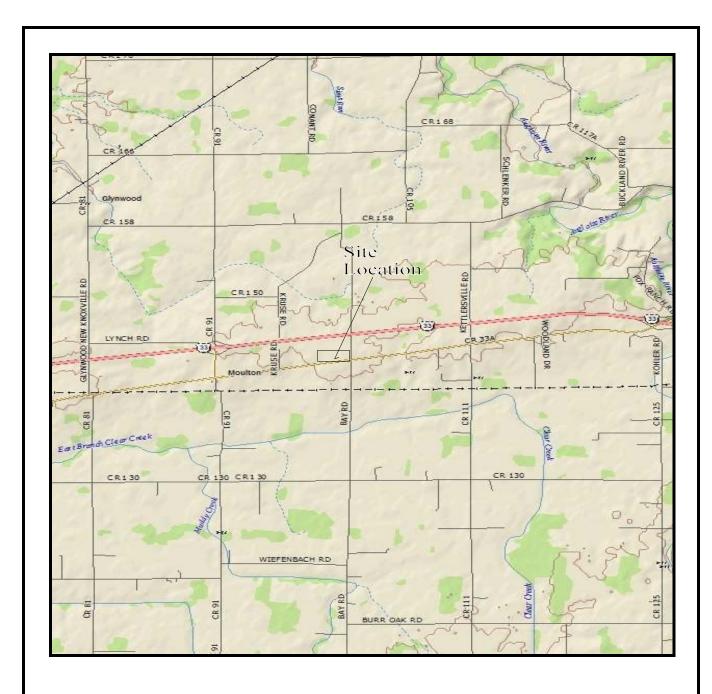
#### 7.5 Certification

I declare to the best of my professional knowledge, I meet the definition of "Environmental Professional" as defined in 40 CFR 312.10.

I have the specific qualification, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices in 40 CFR 312

Michael E. Renz Michael E. Renz Geologist

May 9, 2016,



Phase I	Trupointe Bay Road Facility	
Environmental	14021 Bay Road	
Assessment	Wapakoneta, Ohio	
Scale: 1:24,000 May 9, 2016		



Phase I Environmental Assessment	Trupointe Bay Road Facility 14021 Bay Road Wapakoneta, Ohio May 9, 2016	
Scale: SND		





Facility entrance from Bay Road. View looking west.



Minor soil staining in front of maintenance building.



Interior of maintenance building.



Septic system and air conditioner for maintenance building.



Scale house/office/dry fertilizer storage building on left.



Rear of dry fertilizer storage building



Area of storm water run-off in southwest corner of the property.



Area of vegetation stressed by run-off water.



Former dry fertilizer load out pad



Interior of former scale/house office



Anhydrous ammonia tank. Note dark area is sand fill.



Metal debris and area of fill containing black sand.



Storm water retention basin with sluice gate. Note black sand fill.



Former chemical storage building and load out pads



Front of former chemical storage building



Former secondary containment basin for liquid fertilizer tanks.



# Print Back

# Auglaize County GIS



Notes

# Auglaize County, Ohio - Property Record Card Parcel: G2103400401 Card: 1

Owner AUGLAIZE FARMERS COOPERATIVE INC

Address 14021 BAY

Land Use (420) C - SM.RETAIL<10000SQFT

Class COMM

Legal Description SW COR SW

#### $\overline{\mathsf{MAP}}$



#### **SKETCH**

A sketch is unavailable for this parcel.

## COMMERCIAL

Improvement Name ADVANCED AGRI-SOLUTIONS Description
Year Built 1991
Number of Units
Identical Units 1
Building Number 1
Card 1

#### **COMMERCIAL FEATURES**

LAND					
Code	Frontage	Depth	Acreage	SqFt	Value
6	0	0	1	N/A	\$14,410.0
8	0	0	2.71	N/A	\$19,670.0

VALUATION		
	Appraised	Assessed
Land Value	\$34,080.00	\$11,930.00
Building Value	\$65,460.00	\$22,910.00
Total Value	\$99,540.00	\$34,840.00
CAUV Value	\$0.	.00
Taxable Value	\$34,8	40.00
Annual Tax	\$2,12	26.14

PERMITS					
Number	Date	Purpose	Amount		
4040	07-DEC-07	POLE BARN	\$100.00		
00002095	31-AUG-91	ADD'N BLG	\$100.00		
0002020	01-MAR-88	STORAGE	\$100.00		

IMPI	ROVEMENTS			
Card	Description	Year Built	Dimensions	Value
1	AX1 -	1981	0x0	\$5,850.00
1	AB2 - FLAT	1967	0x0	\$12,680.00
1	AP1 - FOUR	2008	70x100	\$41,980.00

SA	LES

 Date
 Buyer
 Seller
 Price
 Validity

 3/13/2001
 AUGLAIZE FARMERS COOPERATIVE INC
 LAND O'LAKES INC
 \$77,500.00
 1 MULTI PCL

 1/20/2000
 LAND O'LAKES INC
 TERRA INTERNATIONAL INC
 \$117,000.001
 MULTI PCL

 3/1/1985
 \$46,100.00
 8 UNVALIDATED

# Auglaize County, Ohio - Property Record Card Parcel: G2103303101 Card: 1

AUGLAIZE FARMERS COOPERATIVE INC Owner

Address 0 BAY

Land Use (400) C - COMM VAC

COMM Class SE COR SE Legal Description

MAP



#### SKETCH

A sketch is unavailable for this parcel.

COMMERCIAL

**COMMERCIAL FEATURES** 

LAND					
Code	Frontage	Depth	Acreage	SqFt	Value
8	0	0	1 66	N/A	\$12,050.0

VALUATION				
	Appraised	Assessed		
Land Value	\$12,050.00	\$4,220.00		
Building Value	\$0.00	\$0.00		
Total Value	\$12,050.00	\$4,220.00		
CAUV Value	\$0.00			
Taxable Value	\$4,220.00			
Annual Tax	\$258	3.64		

**PERMITS** 

SALES					
Date	Buyer	Seller	Price	Validity	
3/13/2001	AUGLAIZE FARMERS COOPERATIVE INC	LAND O'LAKES INC	\$77,500.00	1 MULTI PCL	
1/20/2000	LAND O'LAKES	TERRA INTERNATIONAL INC	\$117,000.00	1 MULTI PCL	
3/1/1985			\$46,100.00	8 UNVALIDATED	



# U.S. Fish and Wildlife Service

# **National Wetlands Inventory**

# Trupointe Bay Road Facility

May 9, 2016

#### Wetlands

Freshwater Emergent

Freshwater Forested/Shrub

Estuarine and Marine Deepwater

Estuarine and Marine

Freshwater Pond

Lake

Riverine

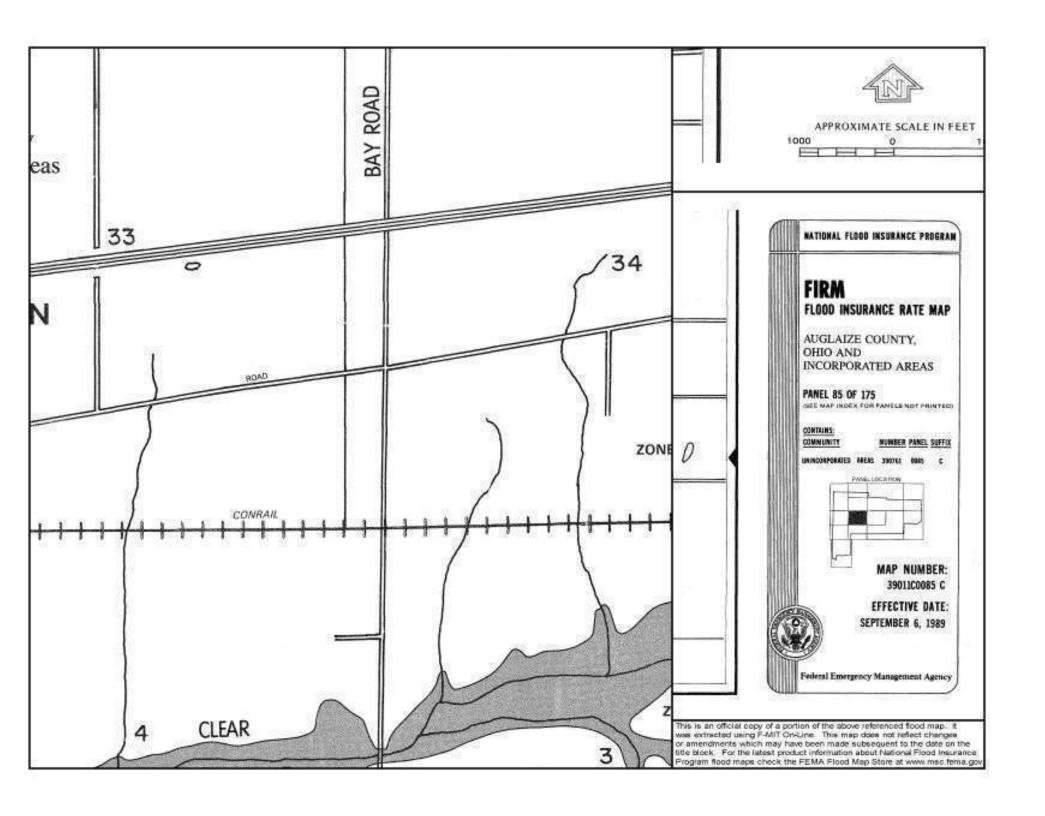
Other



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.

# **User Remarks:**

**National Wetlands Inventory Map** 







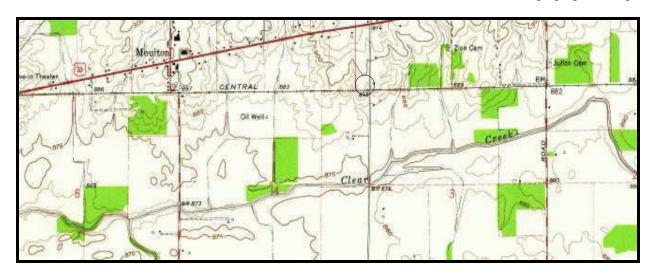




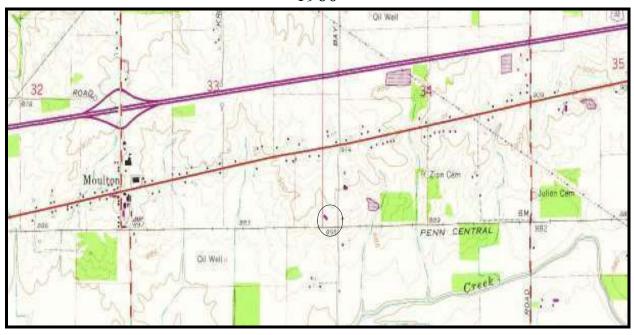




# Historical Topographic Maps



# 





Trupointe Bay Road Facility 14021 Bay Road Wapakoneta, OH 45895

Inquiry Number: 4573823.2s

March 25, 2016

# FirstSearch Report



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

## **Search Summary Report**

TARGET SITE 14021 BAY ROAD WAPAKONETA, OH 45895

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	Υ	0	0	0	0	0	0	0
= =	•	-		-	0	-	-	0
NPL Delisted	Y	0	0	0	0	0	0	0
CERCLIS	Y	0	0	0	0	=	0	0
NFRAP	Υ	0	0	0	0	-	0	0
RCRA COR ACT	Υ	0	0	0	0	0	0	0
RCRA TSD	Υ	0	0	0	0	-	0	0
RCRA GEN	Υ	1	0	0	-	-	0	1
Federal IC / EC	Υ	0	0	0	0	-	0	0
ERNS	Υ	0	-	=	-	-	0	0
State/Tribal CERCLIS	Υ	0	0	0	0	0	0	0
State/Tribal SWL	Υ	0	0	0	0	-	0	0
State/Tribal LTANKS	Υ	0	0	0	0	-	0	0
State/Tribal Tanks	Υ	0	0	0	=	=	0	0
State/Tribal VCP	Υ	0	0	0	0	-	0	0
ST/Tribal Brownfields	Υ	0	0	0	0	-	0	0
US Brownfields	Υ	0	0	0	0	-	0	0
Other SWF	Υ	0	0	0	0	-	0	0
Other Haz Sites	Υ	0	-	-	-	-	0	0
Spills	Y	0	_	=	-	-	0	0
Other	Y	3	0	0	_	_	0	3
<i></i>	•	J	J	Ü			J	J
	- Totals	4	0	0	0	0	0	4

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# **Search Summary Report**

TARGET SITE: 14021 BAY ROAD

WAPAKONETA, OH 45895

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
				_						
NPL	NPL	10/30/2015	1.000	0	0	0	0	0	0	0
	Proposed NPL	10/30/2015	1.000	0	0	0	0	0	0	0
NPL Delisted	Delisted NPL	10/30/2015	1.000	0	0	0	0	0	0	0
CERCLIS	SEMS	01/11/2016	0.500	0	0	0	0	-	0	0
NFRAP	SEMS-ARCHIVE	01/11/2016	0.500	0	0	0	0	-	0	0
RCRA COR ACT	CORRACTS	06/09/2015	1.000	0	0	0	0	0	0	0
RCRA TSD	RCRA-TSDF	06/09/2015	0.500	0	0	0	0	-	0	0
RCRA GEN	RCRA-LQG	06/09/2015	0.250	0	0	0	-	-	0	0
	RCRA-SQG	06/09/2015	0.250	0	0	0	-	-	0	0
	RCRA-CESQG	06/09/2015	0.250	1	0	0	-	-	0	1
Federal IC / EC	US ENG CONTROLS	09/10/2015	0.500	0	0	0	0	-	0	0
	US INST CONTROL	09/10/2015	0.500	0	0	0	0	-	0	0
ERNS	ERNS	06/22/2015	TP	0	-	-	-	-	0	0
State/Tribal CERCLIS	SHWS		1.000	0	0	0	0	0	0	0
	DERR	10/09/2015	1.000	0	0	0	0	0	0	0
State/Tribal SWL	SWF/LF	10/14/2015	0.500	0	0	0	0	-	0	0
State/Tribal LTANKS	LUST	11/15/2015	0.500	0	0	0	0	-	0	0
	INDIAN LUST	10/27/2015	0.500	0	0	0	0	-	0	0
	UNREG LTANKS	08/25/1999	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	UST	11/15/2015	0.250	0	0	0	_	_	0	0
	INDIAN UST	10/20/2015	0.250	0	0	0	-	-	0	0
State/Tribal VCP	VCP	10/09/2015	0.500	0	0	0	0	-	0	0
ST/Tribal Brownfields	BROWNFIELDS	12/14/2015	0.500	0	0	0	0	-	0	0
US Brownfields	US BROWNFIELDS	12/22/2015	0.500	0	0	0	0	-	0	0

# **Search Summary Report**

TARGET SITE: 14021 BAY ROAD

14021 BAY ROAD WAPAKONETA, OH 45895

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTAL
Other SWF	HIST LF	01/01/1980	0.500	0	0	0	0	-	0	0
Other Haz Sites	US CDL	09/17/2015	TP	0	-	-	-	-	0	0
Spills	HMIRS	06/24/2015	TP	0	-	-	-	-	0	0
	SPILLS	11/25/2015	TP	0	-	-	-	-	0	0
	SPILLS 90	09/13/2012	TP	0	-	-	-	-	0	0
	SPILLS 80	04/24/2004	TP	0	-	-	-	-	0	0
Other	RCRA NonGen / NLR	06/09/2015	0.250	0	0	0	-	-	0	0
	TSCA	12/31/2012	TP	0	-	-	-	-	0	0
	TRIS	12/31/2013	TP	0	-	-	-	-	0	0
	SSTS	12/31/2009	TP	2	-	-	-	-	0	2
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	PRP	10/25/2013	TP	0	-	-	-	-	0	0
	PADS	07/01/2014	TP	0	-	-	-	-	0	0
	ICIS	01/23/2015	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	MLTS	06/26/2015	TP	0	-	-	-	-	0	0
	RADINFO	07/07/2015	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2005	1.000	0	0	0	0	0	0	0
	US AIRS	10/20/2015	TP	0	-	-	-	-	0	0
	FINDS	07/20/2015	TP	1	-	-	-	-	0	1
	- Totals			4	0	0	0	0	0	4

# **Site Information Report**

Request Date:MARCH 25, 2016Search Type:COORDRequest Name:MICHAEL E. RENZJob Number:214-788

Target Site: 14021 BAY ROAD

WAPAKONETA, OH 45895

#### Site Location

 Degrees (Decimal)
 Degrees (Min/Sec)
 UTMs

 Longitude:
 84.278492
 84.2784920 - 84° 16' 42.57"
 Easting: 730435.4

 Latitude:
 40.554928
 40.5549280 - 40° 33' 17.74"
 Northing: 4492700.5

 Elevation:
 897 ft. above sea level
 Zone: Zone 16

#### Demographics

Sites: 4 Non-Geocoded: 0 Population: N/A

**RADON** 

Federal EPA Radon Zone for AUGLAIZE 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: 45895

Number of sites tested: 2

 Area
 Average Activity
 % <4 pCi/L</th>
 % 4-20 pCi/L
 % >20 pCi/L

Living Area - 1st Floor 5.300 pCi/L 0% 100% 0%

Living Area - 2nd Floor Not Reported Not Reported Not Reported Not Reported Basement 4.550 pCi/L 50% 50% 0%

Federal Area Radon Information for AUGLAIZE COUNTY, OH

Number of sites tested: 7

 Area
 Average Activity
 % <4 pCi/L</th>
 % 4-20 pCi/L
 % >20 pCi/L

Living Area - 1st Floor 2.567 pCi/L 67% 33% 0%

Living Area - 2nd Floor Not Reported Not Reported Not Reported Not Reported

Basement 7.657 pCi/L 71% 14% 14%

# **Site Information Report**

State Databas	e: OH Radon				
Radon Tes	t Results				
Zipcode	Num Tests	Maximum	Minimum	Arith Mean	Geo Mean
45895	121	34.2	0.1	5.55	3.57

# **Target Site Summary Report**

14021 BAY ROAD WAPAKONETA, OH 45895 Target Property:

JOB: 214-788

TOTAL: 4 GEOCODED: 4 NON GEOCODED: 0

Map ID	DB Type ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
A1	SSTS 014774OH 022	TERRA INTERNATIONAL	14021 BAY ROAD WAPAKONETA, OH 45895	0.00	+ 0	1
A1	RCRA-CESQG OHD045248036	TERRA INTERNATIONAL	14021 BAY ROAD WAPAKONETA, OH 45895	0.00	+ 0	4
A2	SSTS 014774OH 022	LAND O' LAKES, INC.	14021 BAY RD WAPAKONETA, OH 45895	0.00	+ 0	7
A3	FINDS 110000546375	TERRA INTERNATIONAL	14021 BAY ROAD WAPAKONETA, OH 45895	0.00	+ 0	9

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

SSTS

**EDR ID:** 1004574778 DIST/DIR: 0.000 **ELEVATION:** 897 MAP ID: A1

TERRA INTERNATIONAL NAME: Rev: 12/31/2009

ID/Status: 014774OH 022 ADDRESS: 14021 BAY ROAD

WAPAKONETA, OH 45895

SOURCE: US EPA

SSTS:

Product: LASSO Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: 1996 Permit: Registered

Product Number: 00052400314

Product Type: Technical material or active ingredient Product Class: Not reported Product Use: Not reported

UOM: G

Market: Marketed in the United States

Region: Not reported Zero product: Not reported Pesticide RUP report: Not reported

Product: TOPNOTCH Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: 1996 Permit: Registered

Product Number: 01018200391

Product Type: Technical material or active ingredient

Product Class: Not reported Product Use: Not reported

UOM: G

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Product: SURPASS 100 Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: 1996 Permit: Registered

Product Number: 01018200363

Product Type: Technical material or active ingredient

Product Class: Not reported Product Use: Not reported

UOM: G

- Continued on next page -

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

SSTS

EDR ID: 1004574778 DIST/DIR: 0.000 **ELEVATION:** 897 MAP ID: A1

NAME: TERRA INTERNATIONAL Rev: 12/31/2009

ID/Status: 014774OH 022 ADDRESS: 14021 BAY ROAD

WAPAKONETA, OH 45895

SOURCE: US EPA

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Product: SURPASS 100 Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: 1997 Permit: Registered

Product Number: 01018200363

Product Type: Technical material or active ingredient

Product Class: Not reported Product Use: Not reported

UOM: G

Market: Marketed in the United States

Region: Not reported

Zero product: Not reported Pesticide RUP report: Not reported

Product: PROWL 3.3 EC Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: 1997 Permit: Registered

Product Number: 00024100337

Product Type: End-use blend, formulation, or concentrate Product Class: Not reported

Product Use: Not reported

UOM: G

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Product: HARNESS XTRA 5.6L

Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: 1997 Permit: Registered

Product Number: 00052400485

Product Type: Technical material or active ingredient

- Continued on next page -

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

SSTS

**EDR ID:** 1004574778 DIST/DIR: 0.000 **ELEVATION:** 897 MAP ID: A1

TERRA INTERNATIONAL NAME: Rev: 12/31/2009

ID/Status: 014774OH 022 ADDRESS: 14021 BAY ROAD

WAPAKONETA, OH 45895

SOURCE: US EPA

Product Class: Not reported Product Use: Not reported

UOM: G

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Product: TOPNOTCH Contact: Not reported Status: Active

Registration Number: 014774OH 022

Report Year: 1997 Permit: Registered

Product Number: 01018200391

Product Type: Technical material or active ingredient

Product Class: Not reported Product Use: Not reported

UOM: G

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Product: GUARDSMAN Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: 1997 Permit: Registered

Product Number: 05594700150

Product Type: Technical material or active ingredient

Product Class: Not reported Product Use: Not reported

UOM: G

Market: Marketed in the United States

Region: Not reported Zero product: Not reported Pesticide RUP report: Not reported

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

RCRA-CESQG

EDR ID: 1004574778 DIST/DIR: 0.000 **ELEVATION:** 897 MAP ID: A1

NAME: TERRA INTERNATIONAL Rev: 06/09/2015

ID/Status: OHD045248036 ADDRESS: 14021 BAY ROAD

WAPAKONETA, OH 45895

**SOURCE:** US Environmental Protection Agency

RCRA-CESQG:

Date form received by agency: 08/15/1980 Facility name: TERRA INTERNATIONAL INC

Facility address: RR 2 ON BAY RD WAPAKONETA, OH 45895 EPA ID: OHD045248036 Mailing address: PO BOX 4500

LIMA, OH 45802 Contact: S LANG

Contact address: PO BOX 4500

LIMA, OH 45802 Contact country: US

Contact telephone: (419) 227-3090 Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: NAME NOT REPORTED Owner/operator address: ADDRESS NOT REPORTED

CITY NOT REPORTED, AK 99998 Owner/operator country: Not reported Owner/operator telephone: (312) 555-1212

Legal status: Private

Owner/Operator Type: Operator Owner/Op start date: Not reported Owner/Op end date: Not reported

Owner/operator name: TERRA INTERNATIONAL INC Owner/operator address: ADDRESS NOT REPORTED

Continued on next page -

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

RCRA-CESQG

EDR ID: 1004574778 DIST/DIR: 0.000 ELEVATION: 897 MAP ID: A1

NAME: TERRA INTERNATIONAL Rev: 06/09/2015

ADDRESS: 14021 BAY ROAD ID/Status: OHD045248036

WAPAKONETA, OH 45895

**SOURCE**: US Environmental Protection Agency

CITY NOT REPORTED, AK 99998 Owner/operator country: Not reported Owner/operator telephone: (312) 555-1212

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

Handler Activities Summary:

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

Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No

Used oil transporter: No

. Waste code: P001

User oil refiner: No

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

SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste code: P020

. Waste name: DINOSEB (OR) PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-

. Waste code: P039

. Waste name: DISULFOTON (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] ESTER

Waste code: P044

. Waste name: DIMETHOATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIMETHYL S-[2-(METHYLAMINO)-2-OXOETHYL] ESTER

. Waste code: P050

. Waste name: 6,9-METHANO-2,4,3-BENZODIOXATHIEPIN,6,7,8,9,10,10-HEXACHLORO-1,5,5A,6, ,9A-HEXAHYDRO-,3-OXIDE (OR) ENDOSULFAN

- Continued on next page -

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

**RCRA-CESQG** 

EDR ID: 1004574778 DIST/DIR: 0.000 **ELEVATION:** 897 MAP ID: A1

NAME: TERRA INTERNATIONAL 06/09/2015 Rev: ID/Status: OHD045248036

ADDRESS: 14021 BAY ROAD

**SOURCE**: US Environmental Protection Agency

WAPAKONETA, OH 45895

Waste code: P089

Waste name: PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL)

**ESTER** 

Violation Status: No violations found

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

SSTS

EDR ID: 1005432322 DIST/DIR: 0.000 **ELEVATION:** 897 MAP ID: A2

NAME: LAND O' LAKES, INC. Rev: 12/31/2009

ID/Status: 014774OH 022 ADDRESS: 14021 BAY RD

WAPAKONETA, OH 45895

SOURCE: US EPA

SSTS:

Product: FIELDMASTER Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: Not reported Permit: Registered

Product Number: 00052400497

Product Type: Repackaged or relabeled Product Class: Herbicide Product Use: Restricted use only

UOM: Not reported

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Product: GUARDSMAN Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: Not reported Permit: Registered

Product Number: 00796900146

Product Type: Repackaged or relabeled

Product Class: Herbicide
Product Use: Restricted use only

UOM: Not reported

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Product: SURPASS 100 Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: Not reported Permit: Registered

Product Number: 01018200363

Product Type: Repackaged or relabeled

Product Class: Herbicide Product Use: Restricted use only

UOM: Not reported

- Continued on next page -

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

SSTS

**EDR ID:** 1005432322 DIST/DIR: 0.000 **ELEVATION:** 897 MAP ID: A2

LAND O' LAKES, INC. NAME: Rev: 12/31/2009

ID/Status: 014774OH 022 ADDRESS: 14021 BAY RD

WAPAKONETA, OH 45895

SOURCE: US EPA

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Product: PROWL 3.3 EC Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: Not reported Permit: Registered

Product Number: 00024100337

Product Type: Repackaged or relabeled

Product Class: Herbicide
Product Use: All other products

UOM: Not reported

Market: Marketed in the United States

Region: Not reported

Zero product: Not reported Pesticide RUP report: Not reported

Product: HARNESS XTRA 5.6L

Contact: Not reported

Status: Active

Registration Number: 014774OH 022

Report Year: Not reported Permit: Registered

Product Number: 00052400485

Product Type: Repackaged or relabeled Product Class: Herbicide

Product Use: Restricted use only

UOM: Not reported

Market: Marketed in the United States

Region: Not reported Zero product: Not reported

Pesticide RUP report: Not reported

Target Property: 14021 BAY ROAD JOB: 214-788

WAPAKONETA, OH 45895

**FINDS** 

EDR ID: 1016176304 DIST/DIR: 0.000 ELEVATION: 897 MAP ID: A3

NAME: TERRA INTERNATIONAL Rev: 07/20/2015

**ADDRESS**: 14021 BAY ROAD ID/Status: 110000546375

WAPAKONETA, OH 45895

AUGLAIZE SOURCE: US EPA

FINDS:

Registry ID: 110000546375

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.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

#### **Database Descriptions**

NPL: NPL 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. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: Delisted NPL 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. Delisted NPL - National Priority List Deletions

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

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. SEMS-ARCHIVE - Superfund Enterprise Management System Archive

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

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

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

Federal IC / EC: US ENG CONTROLS 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. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROL - Sites with Institutional Controls.

#### **Database Descriptions**

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

State/Tribal CERCLIS: SHWS State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state. SHWS - This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list. DERR - Division of Emergency & Remedial Response's Database.

State/Tribal SWL: SWF/LF 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. SWF/LF - Licensed Solid Waste Facilities

State/Tribal LTANKS: LUST 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. LUST - Leaking Underground Storage Tank File INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. UNREG LTANKS - Ohio Leaking UST File.

State/Tribal Tanks: UST 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. UST - Underground Storage Tank Tank File INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land.

State/Tribal VCP: VCP Site involved in the Voluntary Action Program. VCP - Voluntary Action Program Sites

ST/Tribal Brownfields: BROWNFIELDS A statewide brownfields inventory. A brownfield is an abandoned, idled or under-used industrial or commercial property where expansion or redevelopment is complicated by known or potential releases of hazardous substances and/or petroleum. BROWNFIELDS - Ohio Brownfield Inventory

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

Other SWF: HIST LF A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970s HIST LF - Old Solid Waste Landfill

#### **Database Descriptions**

Other Haz Sites: US CDL 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. US CDL - Clandestine Drug Labs

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System SPILLS - Emergency Response Database. SPILLS 90 - SPILLS90 data from FirstSearch. SPILLS 80 - SPILLS80 data from FirstSearch.

Other: 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. RCRA NonGen / NLR - RCRA - Non Generators / No Longer Regulated FEDLAND - Federal and Indian Lands. TSCA - Toxic Substances Control Act. TRIS - Toxic Chemical Release Inventory System. SSTS - Section 7 Tracking Systems. RAATS - RCRA Administrative Action Tracking System. PRP - Potentially Responsible Parties. PADS - PCB Activity Database System. ICIS - Integrated Compliance Information System. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. FINDS - Facility Index System/Facility Registry System.

#### **Database Sources**

Updated Quarterly  NPL Delisted: EPA  Updated Quarterly
Opuated Quarterly
CERCLIS: EPA
Updated Quarterly
NFRAP: EPA
Updated Quarterly
RCRA COR ACT: EPA
Updated Quarterly
RCRA TSD: Environmental Protection Agency
Updated Quarterly
RCRA GEN: Environmental Protection Agency
Updated Quarterly
Federal IC / EC: Environmental Protection Agency
Varies
ERNS: National Response Center, United States Coast Guard
Updated Annually
State/Tribal CERCLIS: Ohio EPA
No Update Planned
Obere (Tribel OW) - Objection and a Destruction Assessment
State/Tribal SWL: Ohio Environmental Protection Agency
Updated Annually
State/Tribal LTANKS: Department of Commerce
Updated Quarterly
State/Tribal Tanks: Department of Commerce
Updated Quarterly

#### **Database Sources**

State/Tribal VCP: Ohio EPA, Voluntary Action Program

Updated Semi-Annually

ST/Tribal Brownfields: Ohio EPA

Varies

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other SWF: Ohio EPA

No Update Planned

Other Haz Sites: Drug Enforcement Administration

**Updated Quarterly** 

Spills: U.S. Department of Transportation

**Updated Annually** 

Other: Environmental Protection Agency

Varies

# **Street Name Report for Streets near the Target Property**

JOB:

214-788

14021 BAY ROAD WAPAKONETA, OH 45895 Target Property:

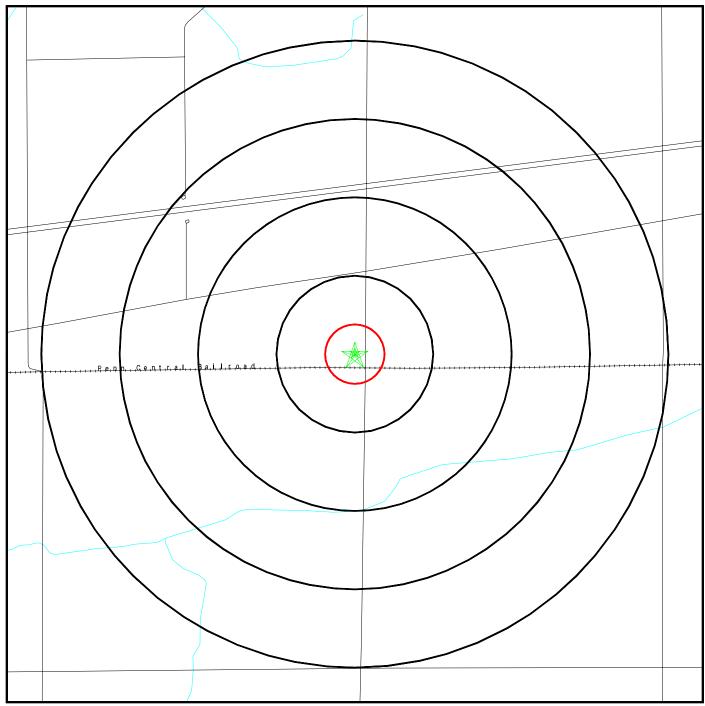
Street Name	Dist/Dir	Street Name	Dist/Dir
Bay Bd	0.03 Fast		

# Environmental FirstSearch 1.000 Mile Radius

1.000 Mile Hadius
ASTM MAP: NPL, RCRACOR, STATES Sites



#### 14021 BAY ROAD WAPAKONETA, OH 45895



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 40.554928 Longitude: 84.278492)

Identified Sites Indian Reservations BIA

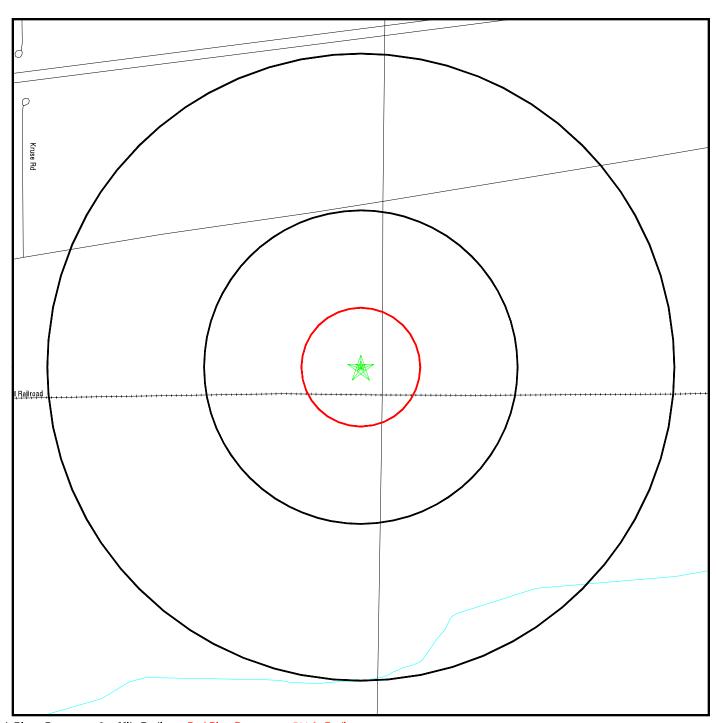
National Priority List Sites

# Environmental FirstSearch 0.500 Mile Radius

0.500 Mile Radius
ASTM MAP: CERCLIS, RCRATSD, LUST, SWL



14021 BAY ROAD WAPAKONETA, OH 45895



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 40.554928 Longitude: 84.278492)

▲ Identified Sites Indian Reservations BIA

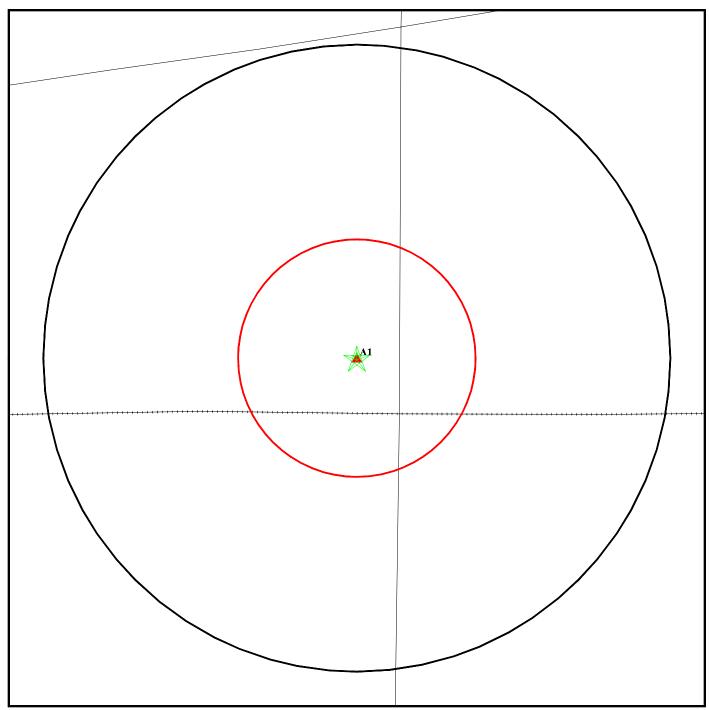
National Priority List Sites

# Environmental FirstSearch 0.25 Mile Radius

ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS



#### 14021 BAY ROAD WAPAKONETA, OH 45895



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

Target Property (Latitude: 40.554928 Longitude: 84.278492)

**Identified Sites** Indian Reservations BIA

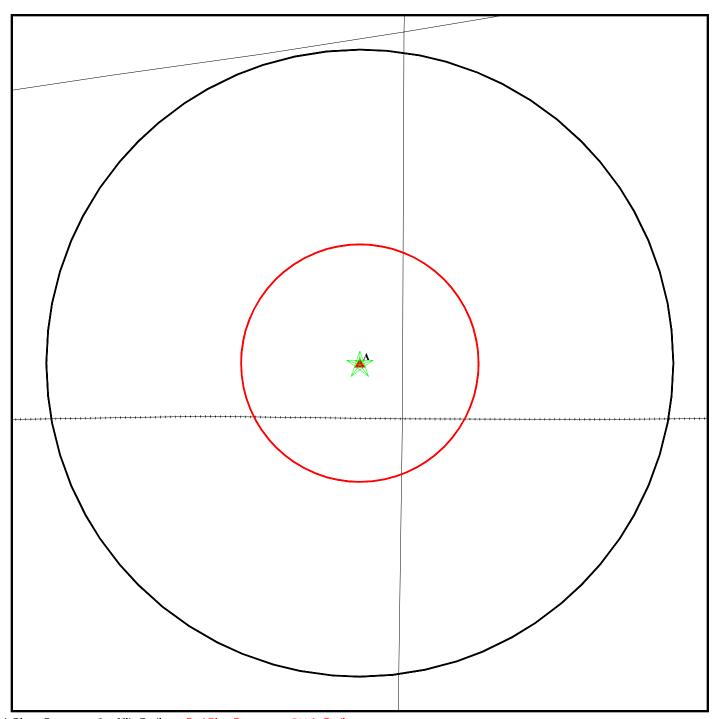
**National Priority List Sites** 

# Environmental FirstSearch 0.25 Mile Radius

0.25 Mile Radius Non ASTM Map, Spills, FINDS



#### 14021 BAY ROAD WAPAKONETA, OH 45895

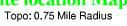


Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- ★ Target Property (Latitude: 40.554928 Longitude: 84.278492)
- Identified Sites

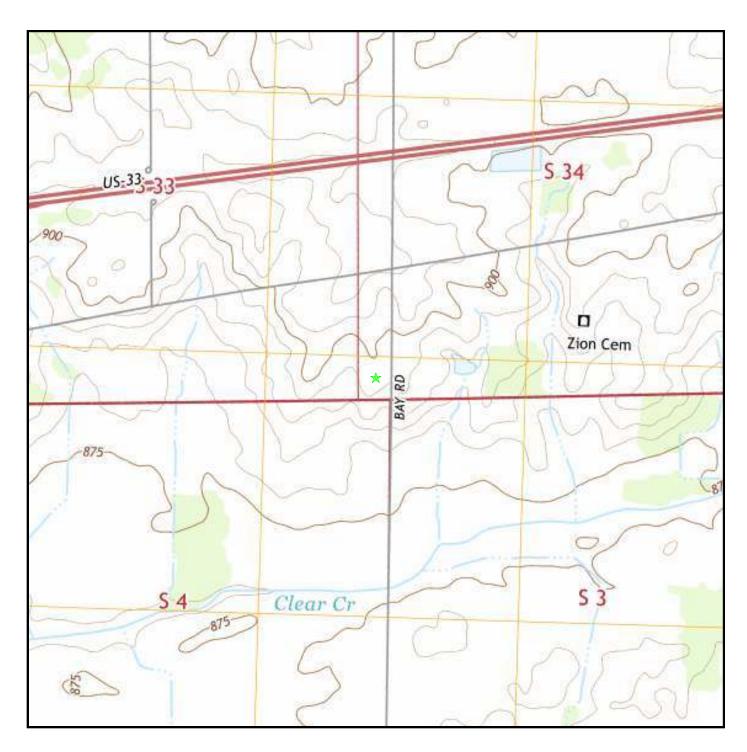
Indian Reservations BIA

National Priority List Sites





### 14021 BAY ROAD WAPAKONETA, OH 45895



Map Image Position: TP Map Reference Code & Name: 5966168 Moulton Map State(s): OH Version Date: 2013



#### RESUME

NAME: Michael E. Renz

**EDUCATION:** B.S., Geology, The Ohio State University

**PUBLIC SERVICE:** Solid Waste Authority of Central Ohio, Board of Trustees-

Appointed Member (November 1995-July 1997)

Ohio EPA, Voluntary Action Program, Ground Water Standards and

Environmental Audit Standards Subcommittees -

Appointed Member

Petroleum Contaminated Soil Rules Advisory Board, Ohio Department of Commerce - Appointed Member

Governor's Blue Ribbon Task Force on Water Resources Planning

and Development - Appointed Member

Underground Storage Tank Rules Committee, Ohio

Department of Commerce - Appointed Member

Ohio Inter Agency Ground Water Advisory Council -

Chairman Education Subcommittee

Ohio Environmental Educational Fund - Member Grant Review

Board

#### **EXPERIENCE:**

1995 - Present Geologist - Renz & Associates, Inc.

1992 - 1995 Chief Geologist/Vice President, EPSYS - Ohio

Responsible for developing and managing commercial and industrial environmental projects including groundwater investigations and remediations; RCRA permitting and closure plans; underground storage tank management plans, closure reports and leakage remediation; environmental assessments; hazardous waste management; geophysical surveys; groundwater supply development and wellhead protection programs; and solid waste disposal site studies and permits.

#### 1989 - 1992 URS Consultants, Inc., Columbus, Ohio

Manager: Solid and Hazardous Waste Department - Responsible for supervising a staff of environmental engineers, geologists and technicians in the performance of RCRA closures and remedial investigations, preparation of RCRA Part B permits for hazardous waste treatment facilities, performance of Phase I and II Environmental Assessments of commercial/industrial properties, assessment and remediation of releases from petroleum underground storage tanks and hydrogeologic studies for water supply development and protection.

### **1989** EMTEK, Inc.

Regional Manager: Responsible for establishing new regional office and managing projects concerning environmental consultation and permitting and hydrogeological investigations of contaminated groundwater.

#### 1987 - 1989 Ground Water Associates, Westerville, Ohio

Project Hydrogeologist: Responsible for conducting soil and groundwater investigation projects for commercial and industrial clients; environmental assessments; and solid waste disposal site permit applications.

## 1985 - 1987 National Water Well Association, Dublin, OH

Deputy Director of Education: Responsible for assisting in planning, developing and presenting national seminars on groundwater development, investigations and remediation. Participated in the development of the first national groundwater symposium.

#### **PUBLICATIONS**

"Dating and Finger Printing of Petroleum Contamination; Practical Applications and Limitations", Sept., 1996, Pub., Ohio Petroleum Marketer

"Environmental Site Assessments in Real Estate Transactions: A Practical Approach for Business Professionals", August, 1995, Ohio Reporter

"Practical Solutions for Contaminated Soils", March 1994, Pub., Ohio Petroleum Marketer

"Ohio's Proposed Wellhead Protection Program." April, 1992, Pub., Ohio Environmental Law Newsletter, Porter, Wright, Morris & Arthur.

"Soil Sampling Procedures for Underground Storage Tank Closures." March, 1992. Pub., Certified Underground Storage Tank Installers Manual, Ohio Petroleum Marketers Association.

"Managing Underground Storage Tank Projects; A Practical Approach for Independent Station Owners." February, 1992. Pub., Independent Service Station and Automobile Repair Association Newsletter.

"Wellhead Protection; An Approach to Private Wells for the Registered Sanitarian." January, 1990. Pub., Ohio Journal of Environmental Health.

"Managing Ground Water Quality Investigations; An Approach for Industrial Environmental Managers." March, 1991. Pub., Proceedings of the Third Ohio

Manufacturers Environmental Conference.

(Manual) "Ground Water Hydrology; A Practical Approach for Industrial Managers and Other Non-Hydrogeologists." February, 1991. Pub., Government Institutes. Inc.

"Wellhead Protection; Implications and Strategies for Ohio Industries". June, 1991. Pub., Proceedings of the 1991 Ohio Environmental Law Conference.

"In Situ Decommissioning of Ground Water Monitoring Wells." May, 1989. Pub., Water Well Journal.

"Basic Ground Water Hydrology." November, 1988.Pub., Argonne National Laboratory.

Applied Ground Water Hydrology; A Practical Approach for Industrial Managers. In press. Pub., Lewis Publishers, Div. CRC Press.

The Ground Water Resources of the Northeastern United States, January 1987, National Water Well Publishing Company

# KEY SPEAKING

United States Navy, Naval Facilities Engineering Command: Presented **ENGAGEMENTS:** a two day seminar on dealing with ground water issues related to environmental problems at Naval Facilities.

> Washington State University: Presented a two day course on ground water investigations and clean-up technologies. The course was sponsored by the university for the consulting engineers working at the Hanford Nuclear Facility in Richland, Washington.

> Ohio Petroleum Marketers Association: Invited Speaker, certified tank installers workshop, 1992 - present

> Ohio Manufacturers Association: Invited Speaker, 1991 Environmental Conference

> Vorys, Sater, Seymour & Pease, Invited Speaker, 1991 Ohio Environmental Law Seminar

> Government Institutes, Inc.: Featured Speaker, "Practical Ground Water Hydrology for Industrial Managers" workshop series

> National Ground Water Association, Featured Speaker, "Fundamentals of Ground Water Technology" course

> Argonne National Laboratory, Featured Speaker, "United States Air Force Installation Restoration" workshop series