

ROSS ENVIRONMENTAL ASSOCIATES, INC.

Hydrogeology, Water Quality, GIS Planning, Remediation, Regulatory
Compliance & Permitting, Environmental Site Assessments, Petroleum
Investigations, and Radon Sampling



PHASE I ENVIRONMENTAL SITE ASSESSMENT

**281 VT Route 15
Hardwick, Vermont 05843**

Site Coordinates: 44° 30' 58" North, 72° 22' 41" West

Transmittal Date: 22 September 2017

Prepared For:

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R.E.A. Project No. 37-070

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1.0 EXECUTIVE SUMMARY

The 1781 Group, LLC. retained the services of Ross Environmental Associates, Inc. (***R.E.A.***) to conduct a Phase I Environmental Site Assessment (ESA) of the ±4.0 acre property located at 281 VT Route 15 in the town of Hardwick, Vermont, subsequently referred to in this report as the “subject property”. The ESA was prepared in accordance with the American Society of Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Designation: E1527-13). The subject property is currently owned by 281 VT Route 15W, LLC. who has operated an automotive garage, Greensboro Garage, on the subject property since 1988. The ESA was requested as a due diligence component related to a pending property transaction. reported redevelopment plans for the property include use as a local welcome center/community space.

Based on a review of available historical information and a summary of historical site use provided by the current owner, the subject property is estimated to have been developed sometime in the early 1900’s for agricultural purposes. The dairy barn building was built sometime prior the 1950’s and was used for agricultural purposes. Following dairy operations, the subject property was used as an equipment storage and maintenance facility for a local excavating business, and for storage of building products by a demo contractor. More recently the property was utilized as commercial car dealership, auto body and automotive repair facility. Those operations were continued by the current owner since he took ownership in 1988. No other significant changes are known to have been made to the on-site building or the subject property since its construction.

On 22 August 2017, ***R.E.A.*** conducted a site reconnaissance of the subject property. The site reconnaissance revealed that site operations have ceased while the owners prepare the property for resale. Evidence of oil and hazardous materials (OHM) use and storage related to its operation as an automotive garage was noted within the barn. One floor drain, which was sealed in 2016, and one slop sink are located in the main auto garage area in the barn. Several pieces of solid waste and empty containers of hazardous substance/petroleum product containers were noted under the open air shed building.

Several nearby listed environmental hazards were revealed within the applicable search radii during the database/records review; however, the sites are not likely to pose a threat to the subsurface conditions of the subject property based upon the current regulatory status of the sites, the characteristics of the contaminants present, and subsurface migration of the identified contaminants towards the subject property is unlikely given the reported local groundwater flow at the site. No other adjoining or nearby site uses are expected to impact the environmental quality of the subject property.

The results of Phase I ESA process revealed evidence of one (1) recognized environmental condition, and two (2) business environmental risks (BERs) in connection with the subject property. in relation to the subject property. A summary of the findings are outlined in the table below. Based on the findings, opinion, and conclusions of this ESA, no further work is recommended at this time.

1.1 Summary of Findings

The results of Phase I ESA process at the subject property revealed the following findings that are relevant to the environmental conditions on the subject property:

<u>Finding</u>	<u>REC or Other Type?</u>	<u>Comments</u>
Threat of a historical release on-site (historical site use and presence of floor drain/slop sink)	Yes	Historical site use includes over 30 years of use as an automotive garage with some auto body work and general equipment maintenance. One floor drain, which was sealed in 2016, and one slop sink is located in the main auto garage area in the barn.
Nearby Listed Environmental Hazards	No	The Lamoille Valley Ford property located to the north and the Hardwick Wastewater Treatment Plant located to the south of the subject property are both listed as state hazardous sites.
Historical Railroad adjoining the Subject Property	No	The railroad tracks located on the adjoining property to the south of the subject property are part of the active rail line owned by former Lamoille Valley Railroad. There is no evidence to suggest that a release of hazardous materials and petroleum products occurred on the subject property or the adjoining property as a result of the operation of this railroad.
Petroleum AST On-Site	No	(1) 275-gallon ASTs that stored waste oil used for heating purposes is located in the main shop area of the barn building. The AST appeared to be in good condition at the time of the site reconnaissance. Evidence of petroleum staining was observed beneath the AST and in the vicinity of the fill/vent pipe on top of the AST.
Solid Waste	BER	A fair amount of solid waste (tires, car parts, empty containers) were noted in the storage areas of the barn building and outside under the open air barn/shed structure.
Hazardous substance and petroleum products use and storage	BER	Evidence of oil and hazardous materials (OHM) use and storage was noted on site. In addition to the 275-gallon AST inside the barn, several areas of hazardous waste storage were noted. The house keeping in these areas was mostly good; however, some visible staining on the floor and open containers of oil were noted. Several empty 55-gallon drums and smaller containers of hazardous substances and petroleum products were noted beneath the open air barn/shed structure located to the south of the barn.

1.2 Opinion

Threat of a Historical Release On-Site

Historical site use includes over 30 years of use as an automotive garage with some auto body work and general heavy equipment maintenance. One floor drain, which was sealed in 2016, and one slop sink are located in the main auto garage area in the barn. Additionally, one significant crack was noted in a low spot of the concrete floor inside the barn and appeared to discharge outside. Given the lengthy automotive maintenance site use history and likely use and storage of petroleum product and hazardous substances within the barn building during these operations, the floor drain, slop sink, and crack provide a potential pathway for contaminants to enter the subsurface. The floor drain was observed to be sealed during the site reconnaissance and the house keeping was noted to be mostly good; however, some visible staining on the floor and open containers of oil were noted. It is unknown whether any petroleum products and/or hazardous substances have historically been released to subsurface via the floor drain or the slop sink. Prior to be sealed, the floor drain is reported to have historically daylighted to a drainage ditch downgradient of and to the south of the open air barn/shed structure. The slop sink is reported to discharge to the onsite septic system. ***R.E.A. is of the opinion that the based on the historical site use within the barn building, the presence of the floor drain/slop sink/floor crack have the potential to pose a threat to the subsurface conditions of the subject property based upon the use/storage of hazardous substances and/or petroleum products in the building. As such, in the opinion of the Environmental Professional, this finding constitutes a REC. Further assessment would be required to determine whether the presence of the floor drain/slop sink/floor crack have resulted in a release of petroleum products or hazardous substances to the subsurface.***

Nearby Listed Environmental Hazards

The Lamoille Valley Ford property located at 222 VT Route 15 to the north of the subject property and is listed as an active state hazardous site (SMS# 962091) and active State UST facility (Facility ID# 4725967). According to the VT DEC Hazardous Site List database the property is listed as a low priority site with contamination to soils or groundwater but no effect on sensitive receptors. Site investigative efforts were initiated following the detection of subsurface petroleum impacts during the 1996 replacement of a gasoline underground storage tank (UST) system. Regional groundwater at the property has been monitored since 1997 via a onsite monitoring well network. The site is currently on an annual monitoring schedule and to date there are no known impacted sensitive receptors. Based on the most recent (June 2015) Site Status Report provided by the VT DEC and developed by KAS, Inc. contaminant levels at the site are stable and/or declining and the contaminant plume is isolated to the immediate vicinity of the source area.

The Hardwick Treatment Plant is located at 107 Treatment Plant Road and to the south of the subject property and is listed as closed state hazardous site (SMS# 972221) with a Sites Management Activities Complete (SMAC) designation. Low levels of petroleum contamination were noted during the removal of two #2 heating oil USTs in 1997. A follow up site investigation revealed no presence of petroleum contamination in soils or groundwater beneath the site and minimal risk to nearby sensitive receptors.

R.E.A. is of the opinion that the proximity of these sites are not likely to pose a threat to the subsurface conditions of the subject property based upon the current regulatory

status of the sites, the characteristics of the contaminants present, and subsurface migration of the identified contaminants towards the subject property is unlikely given the reported groundwater flow is away from the subject property. As such, in the opinion of the Environmental Professional, the location of these sites in proximity to the subject property does not constitute a REC.

Historical Railroad adjoining the Subject Property

According to onsite observations and historical records, the railroad tracks and R.O.W. located on the adjoining property to the south making up the southern property boundary are part of the former rail line owned by former Lamoille Valley Railroad. The railroad corridor appeared to run in a east-west direction, parallel to and forming the southern boundary of the subject property. **There is no evidence to suggest that a release of hazardous materials and petroleum products occurred on the subject property or the adjoining property as a result of the operation of this railroad. Therefore, in the opinion of the Environmental Professional this finding does not rise to the level of a recognized environmental condition.**

Petroleum AST On-Site

One(1) 275-gallon ASTs that stores waste oil for heating purposes is located in the main shop area of the barn building. The AST appeared to be in good condition at the time of the site reconnaissance. Evidence of minimal petroleum staining was observed beneath the AST and in the vicinity of the fill/vent pipe on top of the AST. **In the opinion of the Environmental Professional, while the house keeping practices related to the filling of AST were lacking, the AST system, as observed, does not present a material threat of a release of petroleum products to the subject property and this finding does not rise to the level of an REC.**

Solid Waste

A fair amount of solid waste (tires, car parts, empty containers) were noted in the storage areas of the barn building and outside under the open air barn/shed structure. Several empty 55-gallon drums and smaller containers of hazardous substances and petroleum products were noted beneath the open air barn/shed structure located to the south of the barn. Several areas of used tires were also noted on the property. Mr. Meyer indicated the waste was scheduled to be removed pending the transaction of the property **Based on observations during the site reconnaissance none of the areas of solid waste appeared to be indicative of a release of hazardous materials or petroleum products to the subject property. Therefore, in the opinion of the Environmental Professional this finding does not rise to the level of a recognized environmental condition. The presence of the waste presents a risk which can have material environmental or environmentally-driven impact (disposal costs) on the business associated with the planned use of the subject property, and is therefore considered a business environmental risk (BER).**

Hazardous substance and petroleum products use and storage

Evidence of oil and hazardous materials (OHM) use and storage was noted on site. In addition to the 275-gallon AST inside the barn, several areas of hazardous waste storage were noted. The house keeping in these areas was mostly good with a majority of products labeled and contained in their original containers; however, some visible staining on the floor and open containers of oil were noted in the garage area. **Based on observations during the site reconnaissance**

none of the areas of OHM storage appeared to be indicative of a release of hazardous materials or petroleum products to the subject property. Since the containers appeared to be in good condition, and were stored indoors, they did not present a condition of a potential release, and their presence is therefore not considered a REC. However, their presence presents a risk which can have material environmental or environmentally-driven impact (disposal costs) on the business associated with the planned use of the subject property, and is therefore considered a business environmental risk (BER).

1.3 Conclusions

R.E.A. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 281 VT Route 15, Hardwick, Vermont, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 2.0 and 11.0 of this report. **This assessment has revealed evidence of one (1) recognized environmental condition, two (2) business environmental risks (BERs) in connection with the subject property.**

1.4 Recommendations

R.E.A. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E-1527-13 of the property located at 281 VT Route 15, Hardwick, Vermont the *subject property*. Based on the findings, opinion, and conclusions of this ESA, **R.E.A.** offers the following recommendations:

1. **Threat of a historical release on-site (historical site use and presence of floor drain/slop sink)** – The drain located in the primary garage bay and crack in the concrete floor have historically provided a potential pathway for contaminants to possibly enter the subsurface environment in the event of a release of substances stored in the vicinity of the drain. The primary concern is related to the former uses of the property/drain, as it is not known if the presence of the drain contributed to the transport of petroleum products/hazardous substances to the subsurface. Given the lack of information regarding the history of the drain, additional sub-surface investigation into the potential release of petroleum products or hazardous substances at the site is recommended. A soil boring/test pitting program is recommended prior to redevelopment to better characterize the extent (if any) of any subsurface contamination related to the presence/use of the drain.

Additionally, in order to confirm that the on-site septic system was not historically used for process rinse water disposal or for other petroleum or chemical disposal, the septic tank should be located and its contents should be sampled for the possible presence of volatile organic compounds and metals.

2. **Hazardous substance and petroleum products use and storage** – Any OHM storage containers on the subject property should be removed and disposed of in accordance with applicable state and federal laws.
3. **Solid Waste and Used Tires** – The solid waste and used tires located on the subject property should be disposed of in accordance with applicable state and federal laws.

2.0 INTRODUCTION

Mr. Andrew Meyer on behalf of the 1781 Group, LLC. retained the services of Ross Environmental Associates, Inc. (**RE.A.**) to conduct a Phase I Environmental Site Assessment (ESA) of the ±4.0 acre property located at 281 VT Route 15 in the town of Hardwick, Vermont, subsequently referred to in this report as the “subject property”. The assessment was prepared in accordance with the American Society of Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Designation: E1527-13). The Phase I ESA was prepared as a due diligence component of a pending refinancing.

<u>Site & Address</u>	281 VT Route 15, Hardwick, VT, 05843
<u>Date of Site Reconnaissance</u>	22 August 2017
<u>Report Authors</u>	Jim Rose (RE.A.)
<u>Key Site Contacts</u>	Mr. Andrew Meyer (1781 Group, LLC) Mr. Tim Nisbet (Owner – 281 VT Route 15W, LLC.)
<u>REA Project Number</u>	37-070

2.1 Purpose of the Study

The purpose of the Phase I ESA is to identify, to the extent feasible, recognized environmental conditions (RECs), historic recognized environmental conditions (HRECs), controlled recognized environmental conditions (CRECs), de-minimis conditions, and business environmental risks (BERs) in connection with the subject property. These conditions listed above are identified by characterizing the likelihood of any past or present evidence of a release, or threat of a release of hazardous or regulated substances, or petroleum products on the subject property or on any nearby properties where such a release or material threat of a release could pose a risk of environmental impairment to the site. The Phase I ESA will make an initial determination as to the presence of “hazardous substances” as defined by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and of petroleum and petroleum products.

2.2 Significant Assumptions

While this report provides an overview of recognized environmental conditions, both past and present, the environmental site assessment is limited by the availability of information at the time of the assessment. It is possible that unreported disposal of waste or illegal activities impairing the environmental status of the property may have occurred which could not be identified. The conclusions and recommendations regarding environmental conditions that are presented in this report are based on a scope of work authorized by the client. Note that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground.

2.3 Limitations and Exceptions

This report was completed by Ross Environmental Associates, Inc. (**R.E.A.**) for the sole use of the 1781 Group, LLC. and Mr. Andrew Meyer, their affiliates and authorized agents in connection with an assessment of on-site environmental conditions. Use of this report by any other person or for any other use is not authorized except with prior written consent of **R.E.A.**, or the 1781 Group, LLC. and Mr. Andrew Meyer.

The work was undertaken to assess environmental conditions specifically on the subject property in accordance with generally accepted engineering and hydrogeological practices. No other warranty, express or implied, is made. Absolute assurance that any and all possible contamination at the site was identified cannot be provided. The report conclusions are based, in part, on information provided by the client, their agents, or third parties, including state or local officials. **R.E.A.** assumes no responsibility for the accuracy and completeness of this information.

2.4 Special Terms and Conditions

There were no special terms or contractual conditions for this assessment.

2.5 User Reliance

This report may be distributed and relied upon by the 1781 Group, LLC. and Mr. Andrew Meyer. Reliance on the information and conclusions in this report by any other person or entity is not authorized without the written consent of **R.E.A.**

3.0 USER PROVIDED INFORMATION

A User Questionnaire was completed by Mr. Andrew Meyer as an authorized User of this report. The information requested in the User Questionnaire is intended to assist in gathering evidence to identify RECs at the subject property. The following is a summary of the completed User Questionnaire. A copy of the User Questionnaire is included in Appendix E.

3.1 Title Records

No land title records were provided to **R.E.A.** by the report User. It is unknown if a professional was engaged by the report User to review recorded land title records. Any chain of title or deed records research conducted by **R.E.A.** was for research purposes only and does not constitute a legal title search.

3.2 Environmental Liens or Activity and Use Limitations

No environmental lien records were provided to **R.E.A.** by the report User. It is unknown if a professional was engaged by the report User to review recorded lien records. The report User was not aware of any known Environmental Cleanup Liens or Activity Use Limitations (AULs) filed against the subject property.

3.3 Specialized Knowledge

The report User did not report having any specialized knowledge or experience related to the subject property or nearby properties.

3.4 Commonly Known or Reasonably Ascertainable Information

The report user reported knowledge of the past use of the subject property as a dairy barn. No specific chemicals were known by the report User to have currently or historically been used on the subject property, and no chemical/petroleum releases or environmental cleanups were known to have occurred on the subject property by the report User. No other commonly known or reasonably ascertainable information was provided by the report User.

3.5 Valuation Reduction for Environmental Issues

No formal valuation or appraisal information was provided to **R.E.A.** by the report User. The report User stated that the purchase price or appraised value of the subject property reasonably reflects the fair market value of the subject property, and has not been lowered due to an actual or perceived degraded environmental quality of the subject property.

3.6 Owner, Property Manager, and Occupant Information

The subject property is currently owned by 281 VT Route 15, LLC. a company owned in part by Mr. Tim Nisbet and Steven Ferber.

3.7 Reason for Performing Phase I

Mr. Andrew Meyer on behalf of 1781 Group, LLC., the report User, retained the services of **R.E.A.** to conduct a Phase I Environmental Site Assessment (ESA) of the subject property located at 281 VT Route 15 in Hardwick, Vermont as a due diligence component related to a potential real estate transaction where the report User intends to acquire the subject property.

3.8 User Questionnaire

The User Questionnaire was completed by Mr. Andrew Meyer as the report User. The responses provided by the report User did not contribute to the identification of a REC or other environmental conditions, present a significant data gap, or prevent **R.E.A.** from making conclusions about the environmental quality of the subject property.

3.9 Summary of Previous Environmental Site Assessments

According to Mr. Andrew Meyer, no previous Environmental Site Assessments have been conducted at the subject property and no known assessments for the subject property were documented by **R.E.A.** as part of this ESA process.

3.10 Other

No other relevant information was provided to **R.E.A.** by the report User.

4.0 SITE RECONNAISSANCE

Methodology and Limiting Conditions

On 22 August 2017, **R.E.A.** conducted a site reconnaissance of the subject property, during which the interiors and exteriors of the on-site building was inspected. Access to all areas of the building were available for inspection, except for the building roofs and a portion of the open attic space above the office which was viewed from below. Additionally, the exteriors of the on-

site building and the exterior grounds of the subject property were inspected. The surrounding properties were inspected for general site use and site features.

Site locus maps and site sketches are included as **Figures 1 and 2**, Appendix A. Photographs of the site reconnaissance are included in Appendix B.

No limiting conditions were encountered during the site reconnaissance that prevented **R.E.A.** from making observations or conclusions related to the environmental quality of the subject property. Site locus maps and site sketches are included as Appendix A, and photographs taken during the site reconnaissance are included in Appendix B.

4.1 Site Description and Operations

General Site Setting

The subject property is located in a mixed commercial/residential area in the town of Hardwick, Vermont. The subject property is locally formerly known as the “The Greensboro Garage” which has been in operation as an automotive garage, and repair facility by the same owners since 1988. The subject property contains one 4,000 square foot barn building, a open air style shed/barn building, dirt parking areas on the eastern portion of the subject property. Other grassy areas and are located on the majority of the western extent of the property.

The topography of the subject property is generally flat, in the lower field area on the western portion of the subject property where it adjoins the river valley of the Lamoille River. The barn building and shed area on the eastern portion of the subject property are located at a slightly higher elevation on top of a small rise in the land that slightly slopes to the south and west. The approximate elevation of the subject property is 808 feet above mean sea level.

On-Site Building

The subject property accommodates one $\pm 4,000$ square foot two-story former dairy barn building that was renovated to house an office space, open automotive maintenance garage, parts and materials storage. General storage areas are located on the second-floor loft area on the western half of the barn. According to available information, the building was likely sometime in the 1950’s specifically for agricultural purposes. The on-site building is constructed on a concrete slab with wood framed walls. One $\pm 2,000$ square foot open air style barn/shed building is located just to the south of the main barn building.

<u>Summary of On-Site Structures</u>	
<u>Land Area:</u>	±4.0 acres
<u>Buildings/Name:</u>	Yellow Barn (Former Greensboro Garage)
<u>Building Area (s.f.):</u>	±4,000
<u>Current Uses:</u>	Automotive part storage
<u>Historical Uses:</u>	Automotive garage/used car sales/auto body repair/agricultural
<u>Current Tenants:</u>	Vacant
<u>Date of Construction:</u>	Circa early 1950's
<u>Number of Stories:</u>	2-story
<u>Construction Type:</u>	Stick built wood/concrete pad
<u>Heating/Cooling:</u>	Forced air (waste fuel furnace)
<u>Water/Sewer:</u>	Water: Municipal (WSID #5039) Sewer – Onsite private septic system

Current Site Operations

The subject property is locally known as the Greensboro Garage and/or the Big Yellow Barn which has been in operation as a automotive garage, and repair facility by the same owners since 1988. Currently there are no active operations at the subject property as the owners prepare for the property for resale. Access to the property is provided by one of two a dirt right-of-way (ROWs) from VT Route 15 on the north side of the parcel. The subject property contains one commercial restaurant building, paved parking areas, with other grassy areas. The restaurant building occupies approximately ±4,000 square feet. One +-2,000 square foot open air style barn/shed building is located just to the south of the main barn building.

The Big Yellow Barn Inc. (AKA Greensboro Garage) is listed as a conditionally exempt generator of hazardous waste. Based on review of the facilities compliance record, no violations were reported for the past five-year inspection cycle. According to review of state hazardous waste generator files the facility has routinely shipped small quantities of oily waste and petroleum products related to the use of the site as an automotive repair facility.

4.2 Site Reconnaissance

Key Site Observations

The following tables and Sections are summaries of the interior and exterior observations made during the site reconnaissance on 22 August 2017. Any relevant details related to the observed site features are explained below the corresponding tables.

<u>General Property Observations</u>		
<u>Description</u>	<u>Observed</u>	<u>Not Observed</u>
Hazardous substances & petroleum products	•	
Aboveground storage tanks (ASTs) or evidence of ASTs	•	
Underground storage tanks (USTs) or evidence of USTs		•
Odors		•
Pools of liquid		•
Drums	•	
Hazardous substance & petroleum product containers	•	
PCBs or equipment containing PCBs		•
Hydraulic equipment		•
Electrical Transformers		•

Hazardous substances & petroleum products – Evidence of oil and hazardous materials (OHM) use and storage was noted on site. In addition to the 275-gallon waste oil AST inside the barn, several areas of used oil and hazardous substance storage were noted one of the northern side of the main garage bay by the AST and the other along the south side of the building. Several small areas of stored motor oil, transmission fluid, anti-freeze and other vehicle maintenance products were noted throughout the building. The house keeping in these areas was mostly good with most products labeled and contained in their original containers; however, some visible staining on the floor and open containers of oil were noted in the garage area.

Aboveground Storage Tanks (ASTs) or evidence of ASTs – One 275- gallon waste oil AST was located in the corner of the main garage bay on the north side of the building. The tank stored used waste motor oil for heating purposes. The AST appeared to be in good condition at the time of the site reconnaissance. Evidence of petroleum staining was observed beneath the AST and in the vicinity of the fill/vent pipe on top of the AST. One (1) 100-lb tank of liquified propane is located adjoining the southern exterior side of the building.

Hazardous substances & petroleum product containers – Evidence of oil and hazardous materials (OHM) use and storage was noted on site. Several small areas of stored motor oil, transmission fluid, grease, anti-freeze and other vehicle maintenance products were noted throughout the building. The house keeping in these areas was mostly good with most products

labeled and contained in their original containers; however, some visible staining on the floor and open containers of oil were noted in the garage area. A few empty 55-gallon drums and smaller containers of hazardous substances and petroleum products were noted beneath the open-air barn/shed structure located to the south of the barn. The drums were labeled as transmission fluid and antifreeze. One rusted out 5-gallon bucket dispenser type container of gear grease was noted along with a few empty buckets labeled transmission oil

<u>Exterior Observations</u>			
<u>Description</u>	<u>Observed</u>	<u>Not Observed</u>	<u>Location</u>
Pits, ponds, lagoons, and surface waters	●		stream
Stained soil or pavement		●	---
Stressed vegetation		●	---
Solid waste	●		South and West sides of building.
Process wastewater discharges		●	---
Wells		●	---

The exterior of the subject property appeared to be well maintained at the time of the site visit. No evidence or signs of a spill or release of hazardous substances or petroleum products was observed in the vicinity of the subject property.

Pits, Ponds, Lagoons, and Surface Waters – No pits, ponds or lagoons were observed on the subject property. A small seasonal stream and wet area was noted on the western side of the subject property running south to north. No stains or sheens were noted in the vicinity of this area and no adverse environmental observations were noted.

Solid Waste – A fair amount of solid waste (tires, car parts, empty containers) were noted in the storage areas of the barn building and outside under the open air barn/shed structure. Mr. Meyer indicated the waste was scheduled to be removed pending the transaction of the property. Several areas of used tires were also noted on the property.

Other (onsite vehicles and dumpster) – One pickup truck was located inside the maintenance garage area of the barn building. One sedan was located in the parking area on the eastern extent of subject property. One 30-gard roll off dumpster was located outside the western side of the barn building.

<u>Interior Observations</u>			
<u>Description</u>	<u>Observed</u>	<u>Not Observed</u>	<u>Location</u>
Stains or corrosion		●	---

Drains, discharge, sumps	•		---
Evidence of mold, water damage, water intrusion		•	---
Slop sink	•		---

Floor Drains – One floor drain, which was sealed in 2016, is located in the main auto garage area in the barn. Additionally, one significant crack was noted in a low spot of the concrete floor inside the barn and appeared to discharge outside the south exterior wall. The floor drain was observed to be sealed during the site reconnaissance and the house keeping was noted to be mostly good; however, some visible staining on the floor and open containers of oil were noted. Prior to be sealed, the floor drain is reported to have historically daylighted to a drainage ditch downgradient of and to the south of the open air barn/shed structure.

Slop Sink – One slop sink is located in the barn. The sink is in close vicinity to a maintenance work and tool storage area containing some open petroleum products and hazardous substances products. The slop sink is reported to discharge to the onsite septic system.

4.3 Polychlorinated Biphenyls (PCBs)

Based on site observations and historical information, no fluids, or oils used on the subject property are suspected to contain PCBs. One set of newer hydraulic lifts were observed in the garage area. A set of bolts related to a former set of lifts was also noted on the floor surface. It is not known if the hydraulic oil in the these former lifts contained PCBs. All historic lifts used on the property were reported to be above the ground surface and no evidence of subsurface pits were noted during the site reconnaissance. This visual inspection is not intended to serve as, or to be substituted for a formal PCB inspection. No PCB testing of building materials was completed as a part of this ESA. The User is cautioned that PCB testing in certain building materials may be required, if significant renovations or building demolition are planned.

4.4 Wetlands

No wetlands were observed on or adjoining the subject property. Additionally, no Class I or Class II wetlands are mapped on or adjoining the subject property by the ANR Natural Resources Atlas.

4.5 Radon

The subject property is located in EPA Radon Zone: 2 Predicted average radon levels for Caledonia County are reported to be 2 to 4 picocuries per liter (pCi/L). The EPA recommended action level for radon gas is 4.0 pCi/L. No radon testing was completed as a part of this ESA.

4.6 Asbestos

No asbestos testing was part of the scope of services for this ESA nor was any completed by **R.E.A.** as a part of this ESA. The User is cautioned that an asbestos survey and/or abatement may be required, if significant renovations or building demolition are planned.

4.7 Lead-Based Paint

R.E.A. did not conduct a visual inspection for lead-based paint in the on-site building. No lead testing was completed by **R.E.A.** as a part of this ESA. The User is cautioned that a lead-based paint survey and/or abatement may be required, if significant renovations or building demolition are planned.

4.8 Site Hydrology and Geology

4.8.1 Surface Water Characteristics

The topography of the subject property is generally flat, especially in the lower field area on the western portion of the subject property. The barn building and shed are located on top of a small rise in the land that slightly slopes to the south and west. Stormwater at the subject property is largely unmanaged but appears to naturally runoff the pervious dirt parking lot.

The subject property and surrounding properties are located in Zone X on the FEMA FIRM map, which is defined as areas of minimal flood hazard. The subject property is mapped on Map Panel Number 5000680035C, effective 6 July 2000. Based on this information, flooding of area water bodies is not likely to impact the subject property.

4.8.2 Groundwater Characteristics

No formal subsurface hydrogeologic investigations on the subject property were recently completed or were available for review. However, limited hydrogeologic information on the adjoining property to the northeast is documented in the recent *October 2016 Groundwater Monitoring Report for Lamoille Valley Ford* (SMS Site #96-2091) which notes that groundwater was reported to be from 5-6 feet below ground surface and the estimated groundwater flow beneath the property was to the east-southeast. Based on its close proximity, shallow hydrogeologic conditions on the subject property can be expected to closely reflect the hydrogeologic conditions measured on the nearby site.

4.8.3 Geological Characteristics

Soils on the subject property are mapped as Urban land-Adams-Nicholville complex, 8 to 15 percent slopes. The drainage class is somewhat excessively drained. Surficial geology feature type is mapped as postglacial fluvial deposit. Lithology is noted as recent alluvium consisting of fluvial sands and gravels differentiate in areas where the deposits might have economic significance. Bedrock in the area of the subject property is mapped as Lower Ordovician to Cambrian aged granofels quartzite (Omp) consisting of Light-gray to pale-green, whitish-gray-weathering, chlorite-biotite-plagioclase-quartz granofels and tectonically pinstriped granofels and feldspathic biotite quartzite. No bedrock outcrops were observed on the subject property and no other bedrock outcrops were observed in the immediate vicinity of the subject property.

5.0 RECORDS REVIEW

5.1 Site Ownership and Location

<u>Site Owner(s)</u>	281 VT Route 15, LLC
<u>Site Occupant(s)</u>	Greensboro Garage/Big Yellow Barn
<u>Date(s) of Ownership</u>	1988 - present
<u>Site Location/Legal Desc.</u>	281 VT Route 15 Town of Hardwick, Vermont 05843
<u>Parcel ID</u>	09011.00000 / Span #282-089-10479
<u>Zoning</u>	Industrial/Highway Mixed Use
<u>County</u>	Caledonia
<u>USGS Quadrangle</u>	Wolcott VT; 1:24,000; 1986
<u>Latitude/Longitude</u>	44° 30' 58" North, 72° 22' 41" West
<u>NAICS Code(s)</u>	811111 – General Automotive Repair
<u>Database Listing(s)</u>	CESQG - EPA ID# VT5000001230

5.2 Site History

The objective of consulting historical sources is to develop a history of the previous uses of the property in order to help identify the likelihood of past uses having led to recognized environmental conditions in connection with the subject property. Historical use information describing the subject property was obtained from a variety of sources as discussed below.

5.2.1 Historical Site Uses/Operations Summary

Based on a review of available historical information and a summary of historical site use provided by the current owner, the subject property is estimated to have been developed sometime in the early 1900's for agricultural purposes. The dairy barn building was built sometime prior the 1950's and was used for agricultural purposes. Following dairy operations, the subject property was used as an equipment storage and maintenance facility for a local excavating business, and for storage of building products by a demo contractor. More recently the property was utilized as commercial car dealership, auto body and automotive repair facility. Currently there are no active operations at the subject property as the owners prepare for the property for resale. No other significant changes are known to have been made to the on-site building or the subject property since its construction.

5.2.2 Chain of Title Research

R.E.A. conducted chain of title research at the town of Hardwick land records on 22 August

2017 to identify previous property owners, transaction dates, and land use. This research does not constitute a legal title search. The records for years prior to 1975 were listed as *to be filed* but no records of these document were located in the Hardwick town land records Findings are summarized below:

<u>Book, Page</u>	<u>Grantor</u>	<u>Grantee</u>	<u>Year</u>
141/211	Stephen Ferber & Tim Nisbet	281 VT 15, LLC.	2012
79/149	Anthony Washburn & Margaret Howard	Stephen Ferber & Tim Nisbet	1988
67/234	Raymond & Marguerite Picard	Anthony Washburn & Margaret Howard	1982
62/171	Robert Whitney & Jonathon Lussier	Raymond & Marguerite Picard	1978
59/497	Kenneth & Connie Brown	Robert Whitney & Jonathon Lussier	1977
59/297	Ken Roger & Noel Lussier	Kenneth & Connie Brown	1976
---	Alfred & Pauline Anair	Ken Roger & Noel Lussier	1975
---	MSV Corporation	Alfred & Pauline Anair	1975

5.2.3 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps of the subject property or surrounding properties were not available for review through the Vermont Historical Society, or other resources. As a general rule, the absence of historical Sanborn maps for a given area tends to support evidence that the area was not significantly developed.

5.2.4 Historical Aerial Photographs

Aerial photographs of the subject property and the immediate surrounding area were reviewed for the years 1993, 1998, 2003, 2006, 2008, 2009, 2011, and 2015. The historical aerial photographs were viewed on Google Earth. No historical site uses or features on or in the direct vicinity of the subject property that may have impacted the environmental quality of the subject property were revealed during the review of the historical aerial photographs. Notable features on the historical aerial photographs on and in the vicinity of the subject property appear to be consistent with current conditions.

5.2.5 Historical USGS Topographic Maps

Historical topographic maps of the subject property and the immediate surrounding area were reviewed for the years 1928, 1934, 1938, 1951, and 1986. The historical topographic maps are displayed in the USGS Historical Topographic Map Explorer. No historical site uses or features on or in the direct vicinity of the subject property that may have impacted the environmental quality of the subject property were revealed during the review of the historical topographic maps. Descriptions of notable features on the historical topographic maps on and in the vicinity of the subject property are outlined below:

1928 – 1938: The subject property and all adjoining properties are depicted in a rural underdeveloped area on the topographic maps. No individual buildings are depicted on the subject property and the property is presumed to be vacant and used for agricultural purposes.

the VT Route 15 R.O.W. is clearly depicted in all of the images along with the railroad tracks to the south of the subject property. One residential structures is depicted on each of the maps on the property on the north side of the VT Route 15 to the north of the subject property. No other outstanding topographic or environmental features are depicted on or in the vicinity of the subject property.

1951 – 1986: The subject property and all adjoining properties are depicted in a rural underdeveloped area on the topographic maps. A large farm type structure is depicted on the subject property. the VT Route 15 R.O.W. is clearly depicted in all of the images along with the railroad tracks to the south of the subject property. Several residential structures are depicted on each of the maps on the property on the north side of the VT Route 15 to the north of the subject property. No other outstanding topographic or environmental features are depicted on or in the vicinity of the subject property.

5.3 Adjoining Properties

<u>Direction</u>	<u>Name/Address</u>	<u>Site Use/ Operations</u>	<u>Historical Use/ Operations</u>	<u>Relative Location</u>
North	VT Route 15 R.O.W	R.O.W.	R.O.W.	down gradient
East	Lamoille Valley Ford	New car storage	vacant	down gradient
West	Wright Farm Road R.O.W.	R.O.W.	agricultural/ vacant	Down gradient
South	Lamoille Valley Rail Road R.O.W.	R.O.W.	R.O.W.	Down gradient

The properties adjoining the subject property are currently used for a mix of commercial and public purposes and have historically been used for agricultural purposes and/or were vacant/underdeveloped parcels of land. The adjoining properties are not known to or expected to contain environmental hazards that could impact the environmental quality of the subject property by a release of hazardous substances or petroleum products.

5.4 Environmental Database Review

R.E.A. has conducted a data review of “standard” environmental databases, as specified by ASTM Standard E1527-13 and maintained by federal, state, and tribal offices, through Environmental Record Search, Inc. (ERS). The databases were searched for sites at, adjoining, and nearby the subject property with reported environmental conditions located within approximate minimum search distances as specified by ASTM Standard E 1527-13.

The tables in Sections 5.5 and 5.6 summarize if the subject property is listed in the databases reviewed, and the number of off-site properties reported for each database. Each of the properties identified in the databases were reviewed to determine the potential to impact the

subject property.

In general, contaminant releases with sources that are proximate to, and hydraulically upgradient of the subject property have the greatest potential to impact the subject property. **R.E.A.** reviewed the location of each identified property, the extent of the contaminant release, contaminant type, and current regulatory status of each property to evaluate if the database listing location meets one or more of the following conditions:

- hydrogeologically isolated from the subject property (across a river)
- at such distance from the subject property that migration of contaminants to the subject property is unlikely
- groundwater flow from the listed site is estimated to be away from the subject property

For the purpose of this Phase I ESA, if the database listing location meets one or more of the conditions listed above, it will be excluded from further review because any releases of hazardous substances or petroleum are not likely to impact the subject property. Details of sites that have the potential to impact the subject property are further evaluated in Section 5.8.

5.5 Federal and State Records – ERS RecCheck® Report

The table below summarizes the databases searched by ERS. A full copy of the RecCheck® Report prepared by ERS on 21 August 2017 is included as Appendix C. All databases searched are listed in the ERS RecCheck® Report. Some sites may be included in multiple databases.

Summary of ERS® Federal/State Listed Environmental Hazards						
Database (AAI Search Distance)	Subject Property Listed?	Off-site listings within search distance	Off-site listings NOT requiring additional review			Off-site listings requiring additional review
			Hydrogeologic isolation	Distance	Downgradient	
Federal NPL site list (1.0 mile)	NO	0	N/A	N/A	N/A	0
Federal Delisted NPL site list (0.5 miles)	NO	0	N/A	N/A	N/A	0
Federal CERCLIS/CERCLIS NFRAP (0.5 miles)	NO	0	N/A	N/A	N/A	0
Federal RCRA CORRACTS facilities list (1.0 mile)	NO	0	N/A	N/A	N/A	N/A
Federal RCRA non- CORRACTS TSD facilities list (0.5 miles)	NO	0	N/A	N/A	N/A	0
Federal RCRA Generators list (property & adjoining)	NO	1	0	0	0	1

Federal IC/EC registries (property only)	NO	0	N/A	N/A	N/A	0
Federal ERNS list (property only)	NO	0	N/A	N/A	N/A	0
State Hazardous/ equivalent CERCLIS (0.5 miles)	NO	2	2	0	0	0
State Landfill & Solid Waste Disposal sites (0.5 miles)	NO	1	0	1	0	0
State Leaking Storage Tank Sites AST& UST (0.5 miles)	NO	4	2	0	0	2
State Registered Storage Tank lists (property & adjoining)	NO	2	0	1	0	1
State IC/EC registries (property only)	NO	0	N/A	N/A	N/A	0
State Voluntary Cleanup sites (0.5 miles)	NO	2	2	0	0	0
State Brownfield sites (0.5 miles)	NO	0	N/A	N/A	N/A	0
Orphan/Un-mappable occurrences (zip code)	NO	36				0

5.6 State Records – Vermont DEC Waste Management Interactive Database

In addition to reviewing the ERS RecCheck[®] Report, **R.E.A.** has conducted an online review of the VT DEC Waste Management Interactive Database (WM-ID) and the Vermont Agency of Natural Resources (ANR) Natural Resources Atlas. The WM-ID is updated on a daily basis and allows for users to identify and check the current status of hazardous waste sites and spill sites in Vermont. The Atlas provides geographic information about environmental features and Sites that the ANR manages, monitors, permits, or regulates. The following table provides a summary of findings of **R.E.A.’s** review of the VT DEC WM-ID and ANR Natural Resources Atlas. A map highlighting the location of nearby sites of concern is included in Appendix A.

Summary of State Listed Environmental Hazards ¹						
Database (AAI Search Distance)	Subject Property Listed?	Off-site listings within search distance	Off-site listings NOT requiring additional review			Off-site listings requiring additional review
			Hydrogeologic isolation	Distance	Downgradient	
Hazardous Sites (0.5 miles)	NO	4	1	1	0	2
State Brownfields (0.5 miles)	NO	0	N/A	N/A	N/A	0

¹ **State Databases Searched:** VT DEC Waste Management Interactive Database (WM-ID); Hazardous Sites; Spills; Underground Storage Tank (UST) facilities; Landfills/Solid Waste; State RCRA Generators; State Brownfield Sites.

Spills (property & adjoining)	NO	0	N/A	N/A	N/A	0
State UST Facilities (0.1 miles)	NO	3	1	1	0	1
Landfills/Solid Waste (0.5 miles)	NO	3	0	2	0	1

5.7 Other State and Local Regulatory Information and Records Review

Additional state environmental databases including the ANR Act 250 Database, and the VT DEC Drinking Water and Groundwater Protection Division Regional Office Permit Search were reviewed for site files related to the property. No permit documents and/or plans related to the subject the property were found. None of the site files reviewed revealed any historical features or adverse environmental impacts associated with subject property.

A completed *Injection Well Closure form for High Risk Activities* from the VT underground Injection Control Program related to the closure of the floor drain within the main barn building was provided by the current owner Mr. Nisbet. The form documents the closure of the floor drain with sealed concrete effective 8 July 0216. The form also references that prior to closure the drain discharge to daylight and/or a drainage ditch. This information was confirmed by Mr. Nisbet during the interview process. Mr. Nisbet indicated the drain discharge to daylight in a drainage ditch located at the back (south side) of adjoining open air barn building/shed to the south of the main Barn building and prior to that may have discharged to a dry well located just outside the southern exterior wall of the barn building.

Local government records from the Town of Hardwick were reviewed, where available. The local government records reviewed included deeds, town appraisals and assessment data of the subject property, other lister information, easement information, zoning permits, and tax maps.

Additionally, no activity or use limitations (AULs) or institutional controls or engineering controls are currently recorded against the subject property.

Hardwick Town Clerk's Office: **R.E.A.** reviewed deeds, plat maps, surveys, and other notices attached to the land records of the subject property. No environmental liens, AULs, or institutional controls were revealed during this research.

Hardwick Town Assessor's Office: **R.E.A.** reviewed the grand list, property summary sheets, and tax maps for general property information.

5.8 Summary of Database/Records Review

Based on a review of the ERS RecCheck® Report and the VT DEC WM-ID, the ANR Natural Resources Atlas, as well as other state and local records, the subject property is not listed on any standard environmental databases as containing environmental hazards. No AULs or engineering/institutional controls are currently recorded against the subject property.

Several nearby sites were listed within the applicable search radii, or identified in the regulatory records reviews. A detailed evaluation of the database results and regulatory files was completed for nearby sites identified in Sections 5.5 and 5.6 as having the potential to pose a threat to the subject property. Details of each site and the current regulatory status of each site are

summarized below:

Federal RCRA Generators

The Big Yellow Barn Inc. (VTR000008706) – 281 VT Route 15 (Subject Property)

The Big Yellow Barn Inc. (AKA Greensboro Garage) is listed as a conditionally exempt generator of hazardous waste. Based on review of the facilities compliance record, no violations were reported for the past five-year inspection cycle. According to review of state hazardous waste generator files the facility has routinely shipped small quantities of oily waste and petroleum products related to the use of the site as an automotive repair facility.

Lamoille Valley Ford, Inc. (VTR000002907) – 222 VT Route 15

Lamoille Valley Ford is listed as a conditionally exempt generator of hazardous waste. Based on review of the facilities compliance record, no violations were reported for the past five-year inspection cycle. According to review of state hazardous waste generator files the facility has routinely shipped small quantities of oily waste and petroleum products related to the use of the site as a automotive repair facility.

State Hazardous Sites/State Leaking Storage Tank Sites

State UST Facilities/ State Registered Storage Tank Lists

Former Hardwick Motors/Lamoille Valley Ford – 222 VT Route 15 (SMS# 96-2091/UST Facility ID#4725967) – Active, medium priority site.

The Lamoille Valley Ford property located at 222 VT Route 15 to the north of the subject property and is listed as an active state hazardous site (SMS# 962091) and active State UST facility (Facility ID# 4725967). According to the VT DEC Hazardous Site List database the property is listed as a low priority site with contamination to soils or groundwater but no effect on sensitive receptors. Site investigative efforts were initiated following the detection of subsurface petroleum impacts during the 1996 replacement of a gasoline underground storage tank (UST) system. Regional groundwater at the property has been monitored since 1997 via a onsite monitoring well network. The site is currently on an annual monitoring schedule and to date there are no known impacted sensitive receptors. Based on the most recent (June 2015) Site Status Report provided by the VT DEC and developed by KAS, Inc. contaminant levels at the site are stable and/or declining and the contaminant plume is isolated to the immediate vicinity of the source area. A 2011 Investigation at the site concluded that residual petroleum contamination located beneath the site is generally confined to the former UST location and are not significantly migrating from the source area. data collected during the SSI from the newly installed monitoring wells suggested residual

According to the VT DEC UST facility detail report, one active 4,000-gallon gasoline UST is currently located on site and was installed in 2006.

Hardwick Wastewater Treatment Plant – 107 Treatment Plant Road (SMS#972221) – Closed/SMAC

The Hardwick Treatment Plant is located at 107 Treatment Plant Road and to the south of the subject property and is listed as closed state hazardous site (SMS# 972221) with a Sites Management Activities Complete (SMAC) designation. Low levels (<50 ppm) of petroleum contaminated soils were noted during the removal of two #2 heating oil USTs in 1997. A

follow up site investigation including the installation of soils borings and groundwater monitoring wells and soil and groundwater sampling revealed no presence of petroleum contamination in soils or groundwater beneath the site and minimal risk to nearby sensitive receptors.

Hardwick Kwik Stop/Perry's Oil – 454 VT Route 15 (SMS# 94-1608/UST Facility ID#1740) – Active, medium priority site.

The Hardwick Kwik Stop/Perry's Oil is listed as an active state hazardous site (SMS# 941608) and active State UST facility (Facility ID# 1740). According to the VT DEC Hazardous Site List database the property is listed as a low priority site with contamination to soils or groundwater but no effect on sensitive receptors. Following the drilling of a new bedrock supply well drilling operations are believed to have impacted the onsite and a neighboring drinking water supply well. The state coordinate the installation of drinking water treatment systems for the impacted properties. The bedrock supply well monitoring has ceased since 1997. Site investigative efforts were requested but not initiated at the site. Given that this site is hydrogeologically disconnected from the subject property by the Lamoille River, the risk of impact to the subject property related to any petroleum contamination at this site is low.

According to the VT DEC UST facility detail report, one active dual compartment 20,000-gallon gasoline UST is currently located on site and was installed in 1993.

State Listed Landfill

Brown Co. Landfill

The Brown Co. Landfill is located just northeast of the Lamoille Valley ford property and approximately 800 feet northeast of the subject property. the limited information available suggests the was a historical landfill that has not been used since 1970 and is 2 acres or less in size. No ground monitoring program is in place at this site. Groundwater monitoring data from the nearby Lamoille Valley Ford site indicate that groundwater flow at this property would likely be away from the subject property.

State Listed Spills

No State listed spills were found to be listed on the subject property. 70 reported spills are listed in the Town of Hardwick on the VT DEC WM-ID to date. Not all of the reported spills could be located due to inaccurate or incomplete addresses included in the database. Details of any additional nearby reported spills were reviewed and none of the documented spills were characterized as being in close enough vicinity or having the potential to adversely impact the subject property.

6.0 INTERVIEWS

The purpose of the interviews are to obtain information identifying possible recognized environmental conditions (RECs) in connection with the subject property, from people knowledgeable about the subject property or surrounding properties. The following people were interviewed as a part of this ESA:

1. Mr. Tim Nisbet (Current owner)

Summary: Mr. Nisbet assisted in the completion of the Environmental Questionnaire (Appendix E). Mr. Nisbet also provided information on the site operations and on site utilities since he took over ownership in 1988. The information provided by Mr. Nisbet informed the site use and site history sections of this ESA.

2. Ms. Kristen Leahy – Town of Hardwick (Zoning Administrator)

Summary: Ms. Leahy was interviewed about the history of the subject property. To her knowledge, she did not recall any environmental hazards, zoning violations or permitting problems related to the subject property.

3. Ms. Sue Cross – Assistant Town Clerk

Summary: Ms. Cross was interviewed about the history of the subject property. To her knowledge, she did not recall any environmental hazards, zoning violations or permitting problems related to the subject property

7.0 **VAPOR ENCROACHMENT SCREENING**

R.E.A. has performed a Vapor Encroachment Screening (Tier 1) in accordance with ASTM Standard Practice E-2600-10 for the subject property. The purpose of this Tier 1 VES was to identify existing or potential vapor encroachment conditions² (VECs) (as defined by ASTM Standard E-2600-10) impacting the indoor air of the subject property. The results of the Tier 1 VES revealed that a VEC is not likely to exist at the subject property. The results of the Tier 1 VES are displayed in Appendix F.

8.0 **DATA GAPS**

In accordance with ASTM Standard Practice E 1527-13, no significant data gaps have been identified by **R.E.A.** during the ESA process on the subject property.

9.0 **FINDINGS, OPINION, AND CONCLUSIONS**

9.1 Findings

The results of Phase I ESA process at the subject property revealed the following findings that are relevant to the environmental conditions on the subject property:

<u>Finding</u>	<u>REC or Other Type?</u>	<u>Comments</u>
Threat of a historical release on-site (historical site use and presence of floor drain/slop sink)	Yes	Historical site use includes over 30 years of use as an automotive garage with some auto body work and general equipment maintenance. One floor drain, which was sealed in 2016, and one slop sink are located in the main auto garage area in the barn.
Nearby Listed Environmental Hazards	No	The Lamoille Valley Ford property located to the north and the Hardwick Wastewater Treatment Plant located to the south of the subject property are both listed as state hazardous sites.

² VEC: vapor encroachment condition – the presence or likely presence of chemicals of concern (COC) vapors in the subsurface of the subject property caused by the release of vapors from contaminated soil or groundwater on or near the subject property.

Historical Railroad adjoining the Subject Property	No	The railroad tracks located on the adjoining property to the south of the subject property are part of the active rail line owned by former Lamoille Valley Railroad. There is no evidence to suggest that a release of hazardous materials and petroleum products occurred on the subject property or the adjoining property as a result of the operation of this railroad.
Petroleum AST On-Site	No	(1) 275-gallon ASTs that stored waste oil used for heating purposes is located in the main shop area of the barn building. The AST appeared to be in good condition at the time of the site reconnaissance. Evidence of petroleum staining was observed beneath the AST and in the vicinity of the fill/vent pipe on top of the AST.
Solid Waste	Des Minimis	A fair amount of solid waste (tires, car parts, empty containers) were noted in the storage areas of the barn building and outside under the open air barn/shed structure.
Hazardous substance and petroleum products use and storage	BER	Evidence of oil and hazardous materials (OHM) use and storage was noted on site. In addition to the 275-gallon AST inside the barn, several areas of hazardous waste storage were noted. The house keeping in these areas was mostly good; however, some visible staining on the floor and open containers of oil were noted. Several empty 55-gallon drums and smaller containers of hazardous substances and petroleum products were noted beneath the open air barn/shed structure located to the south of the barn.

9.2 Opinion

Threat of a Historical Release On-Site

Historical site use includes over 30 years of use as an automotive garage with some auto body work and general heavy equipment maintenance. One floor drain, which was sealed in 2016, and one slop sink are located in the main auto garage area in the barn. Additionally, one significant crack was noted in a low spot of the concrete floor inside the barn and appeared to discharge outside. Given the lengthy automotive maintenance site use history and likely use and storage of petroleum product and hazardous substances within the barn building during these operations, the floor drain, slop sink, and crack provide a potential pathway for contaminants to enter the subsurface. The floor drain was observed to be sealed during the site reconnaissance and the house keeping was noted to be mostly good; however, some visible staining on the floor and open containers of oil were noted. It is unknown whether any petroleum products and/or hazardous substances have historically been released to subsurface via the floor drain or the slop sink. Prior to be sealed, the floor drain is reported to have historically daylighted to a drainage ditch downgradient of and to the south of the open air barn/shed structure. The slop sink is reported to discharge to the onsite septic system. ***R.E.A. is of the opinion that the based on the historical site use within the barn building, the presence of the floor drain/slop***

sink/floor crack have the potential to pose a threat to the subsurface conditions of the subject property based upon the use/storage of hazardous substances and/or petroleum products in the building. As such, in the opinion of the Environmental Professional, this finding constitutes a REC. Further assessment would be required to determine whether the presence of the floor drain/slop sink/floor crack have resulted in a release of petroleum products or hazardous substances to the subsurface.

Nearby Listed Environmental Hazards

The Lamoille Valley Ford property located at 222 VT Route 15 to the north of the subject property and is listed as an active state hazardous site (SMS# 962091) and active State UST facility (Facility ID# 4725967). According to the VT DEC Hazardous Site List database the property is listed as a low priority site with contamination to soils or groundwater but no effect on sensitive receptors. Site investigative efforts were initiated following the detection of subsurface petroleum impacts during the 1996 replacement of a gasoline underground storage tank (UST) system. Regional groundwater at the property has been monitored since 1997 via a onsite monitoring well network. The site is currently on an annual monitoring schedule and to date there are no known impacted sensitive receptors. Based on the most recent (June 2015) Site Status Report provided by the VT DEC and developed by KAS, Inc. contaminant levels at the site are stable and/or declining and the contaminant plume is isolated to the immediate vicinity of the source area.

The Hardwick Treatment Plant is located at 107 Treatment Plant Road and to the south of the subject property and is listed as closed state hazardous site (SMS# 972221) with a Sites Management Activities Complete (SMAC) designation. Low levels of petroleum contamination were noted during the removal of two #2 heating oil USTs in 1997. A follow up site investigation revealed no presence of petroleum contamination in soils or groundwater beneath the site and minimal risk to nearby sensitive receptors.

R.E.A. is of the opinion that the proximity of these sites are not likely to pose a threat to the subsurface conditions of the subject property based upon the current regulatory status of the sites, the characteristics of the contaminants present, and subsurface migration of the identified contaminants towards the subject property is unlikely given the reported groundwater flow is away from the subject property. As such, in the opinion of the Environmental Professional, the location of these sites in proximity to the subject property does not constitute a REC.

Historical Railroad adjoining the Subject Property

According to onsite observations and historical records, the railroad tracks and R.O.W. located on the adjoining property to the south making up the southern property boundary are part of the former rail line owned by former Lamoille Valley Railroad. The railroad corridor appeared to run in a east-west direction, parallel to and forming the southern boundary of the subject property. **There is no evidence to suggest that a release of hazardous materials and petroleum products occurred on the subject property or the adjoining property as a result of the operation of this railroad. Therefore, in the opinion of the Environmental Professional this finding does not rise to the level of a recognized environmental condition.**

Petroleum AST On-Site

One(1) 275-gallon ASTs that stores waste oil for heating purposes is located in the main shop

area of the barn building. The AST appeared to be in good condition at the time of the site reconnaissance. Evidence of minimal petroleum staining was observed beneath the AST and in the vicinity of the fill/vent pipe on top of the AST. **In the opinion of the Environmental Professional, while the house keeping practices related to the filling of AST were lacking, the AST system, as observed, does not present a material threat of a release of petroleum products to the subject property and this finding does not rise to the level of an REC.**

Solid Waste

A fair amount of solid waste (tires, car parts, empty containers) were noted in the storage areas of the barn building and outside under the open air barn/shed structure. Several empty 55-gallon drums and smaller containers of hazardous substances and petroleum products were noted beneath the open air barn/shed structure located to the south of the barn. Several areas of used tires were also noted on the property. Mr. Meyer indicated the waste was scheduled to be removed pending the transaction of the property **Based on observations during the site reconnaissance none of the areas of solid waste appeared to be indicative of a release of hazardous materials or petroleum products to the subject property. Therefore, in the opinion of the Environmental Professional this finding does not rise to the level of a recognized environmental condition. The presence of the waste presents a risk which can have material environmental or environmentally-driven impact (disposal costs) on the business associated with the planned use of the subject property, and is therefore considered a business environmental risk (BER).**

Hazardous substance and petroleum products use and storage

Evidence of oil and hazardous materials (OHM) use and storage was noted on site. In addition to the 275-gallon AST inside the barn, several areas of hazardous waste storage were noted. The house keeping in these areas was mostly good with a majority of products labeled and contained in their original containers; however, some visible staining on the floor and open containers of oil were noted in the garage area. **Based on observations during the site reconnaissance none of the areas of OHM storage appeared to be indicative of a release of hazardous materials or petroleum products to the subject property. Since the containers appeared to be in good condition, and were stored indoors, they did not present a condition of a potential release, and their presence is therefore not considered a REC. However, their presence presents a risk which can have material environmental or environmentally-driven impact (disposal costs) on the business associated with the planned use of the subject property, and is therefore considered a business environmental risk (BER).**

9.3 Conclusions

R.E.A. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 281 VT Route 15, Hardwick, Vermont, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 2.0 and 11.0 of this report. **This assessment has revealed evidence of one (1) recognized environmental condition, two (2) business environmental risks (BERs) in connection with the subject property**

10.0 RECOMMENDATIONS

R.E.A. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E-1527-13 of the property located at 281 VT Route 15, Hardwick, Vermont the *subject property*. Based on the findings, opinion, and conclusions of this ESA, **R.E.A.** offers the following recommendations:

1. **Threat of a historical release on-site (historical site use and presence of floor drain/slop sink)** – The drain located in the primary garage bay and crack in the concrete floor have historically provided a potential pathway for contaminants to possibly enter the subsurface environment in the event of a release of substances stored in the vicinity of the drain. The primary concern is related to the former uses of the property/drain, as it is not known if the presence of the drain contributed to the transport of petroleum products/hazardous substances to the subsurface. Given the lack of information regarding the history of the drain, additional sub-surface investigation into the potential release of petroleum products or hazardous substances at the site is recommended. A soil boring/test pitting program is recommended prior to redevelopment to better characterize the extent (if any) of any subsurface contamination related to the presence/use of the drain.

Additionally, in order to confirm that the on-site septic system was not historically used for process rinse water disposal or for other petroleum or chemical disposal, the septic tank should be located and its contents should be sampled for the possible presence of volatile organic compounds and metals.

2. **Hazardous substance and petroleum products use and storage** – Any OHM storage containers on the subject property should be removed and disposed of in accordance with applicable state and federal laws.
3. **Solid Waste and Used Tires** – The solid waste and used tires located on the subject property should be disposed of in accordance with applicable state and federal laws.

11.0 DEVIATIONS

Phase I ESA complies with the ASTM Standard E-1527-13 and the Scope of Services provided to the Union Bank. No additional services were performed outside the scope of this ESA.

12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS & EP STATEMENT

I declare that, to the best of my professional knowledge and belief, I (Jim Rose) meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the *property*. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Reviewed by:



Jim Rose
Senior Environmental Scientist &
Environmental Professional
(Site Inspector & Primary Author)

Robert J. Ross
Principal Hydrogeologist &
Environmental Professional

13.0 **ADDITIONAL REFERENCES**

Persons Interviewed

- ❖ Mr. Tim Nisbett – Current owner. 28 August 2017.
- ❖ Ms. Kristen Leahy – Town of Hardwick (Zoning Administrator) 22 August 2017.
- ❖ Ms. Sue Cross – Town of Hardwick (Assistant Town Clerk) 22 August 2017.

Local/Municipal Resources Consulted

- ❖ Town of Hardwick Town Clerk Office. 22 August 2017.
- ❖ Town of Hardwick Planning & Zoning Office. 22 August 2017.

State Resources Consulted

- ❖ Radcliffe, N.M et al. 2011. “Bedrock Geologic Map of Vermont”. U.S. Geological Survey Scientific Investigations Map 3184, 3 sheets, scale 1:100,000.
- ❖ Vermont Agency of Natural Resources. ANR Act 250 Database Search. Retrieved from: <https://anrweb.vt.gov/ANR/ANR/Act250.aspx>
- ❖ Vermont Agency of Natural Resources. Natural Resources Atlas. Retrieved from: <http://anrmaps.vermont.gov/websites/anra/>
- ❖ Vermont Center for Geographic Information (VCGI). Interactive Map Viewer. Retrieved from: <http://vcgi.vermont.gov/>
- ❖ Vermont DEC Drinking Water and Groundwater Protection Division: Public Water Supply Systems Search. Retrieved from: <https://anrnode.anr.state.vt.us/DWW/index.jsp>
- ❖ Vermont DEC Drinking Water and Groundwater Protection Division. Supply Well Database. Retrieved from: <http://www.vermontdrinkingwater.org/cfm/WellReportSearchForm.cfm>
- ❖ Vermont DEC Drinking Water and Groundwater Protection Division: Wastewater Permit Search. Retrieved from: <https://anrweb.vt.gov/DEC/WWDocs/Default.aspx>
- ❖ Vermont DEC Waste Management Division. WM-ID, Waste Management Interactive Database. Hazardous Sites, Brownfield Sites, Spills, UST, Hazardous Waste. Retrieved from: <https://anrweb.vt.gov/DEC/ERT/Hazsites.aspx>
- ❖ Vermont Historical Society. Sanborn Fire Insurance Maps. Retrieved from: <http://vermonthistory.org/research/research-resources-online/sanborn-maps>

Federal Resources Consulted

- ❖ U.S. EPA. Environmental Compliance History Online.

- ❖ USGS Historical Topographic Map Explorer.
- ❖ U.S.G.S. Wolcott, Vermont Quadrangle. 1:24,000, 1986.

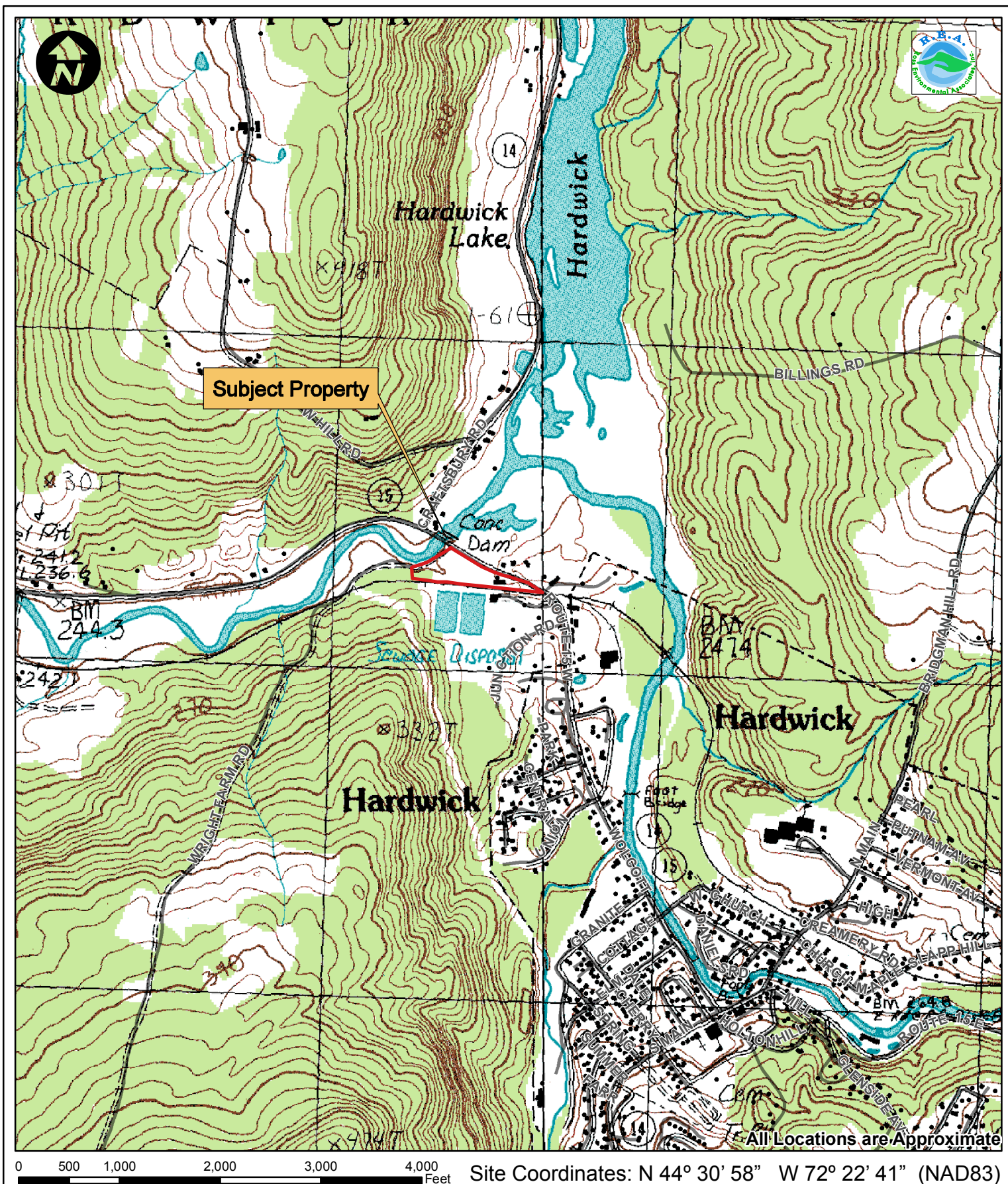
Other Resources Consulted

- ❖ American Society for Testing and Materials Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E1527-13).
- ❖ American Society for Testing and Materials Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM E2600-10).

**FIGURES &
SITE PLANS**

**A
P
P
E
N
D
I
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A**



Subject Property

USGS: Wolcott, Vermont Quadrangle, 1:24,000, 1986

Figure 1
USGS Map
281 VT Route 15
Wolcott, Vermont

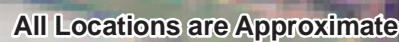


Figure 2
Site Features
281 VT Route 15
Wolcott, Vermont

Imagery: 2009 NAIP



Hardwick KwikStop
SMS# 94-1608 (Active)
UST Facility # 1740
EPA ID# VTR000514521

Greensboro Garage
EPA ID# VTR000001230

Lamoille Valley Ford
SMS # 96-2091 (Active)
UST Facility # 4725967
EPA ID# VTR000002907

Hardwick WW Treatment Plant
SMS # 97-2221 (Closed/SMAC)

Imagery: 2009 NAIP

All Locations are Approximate

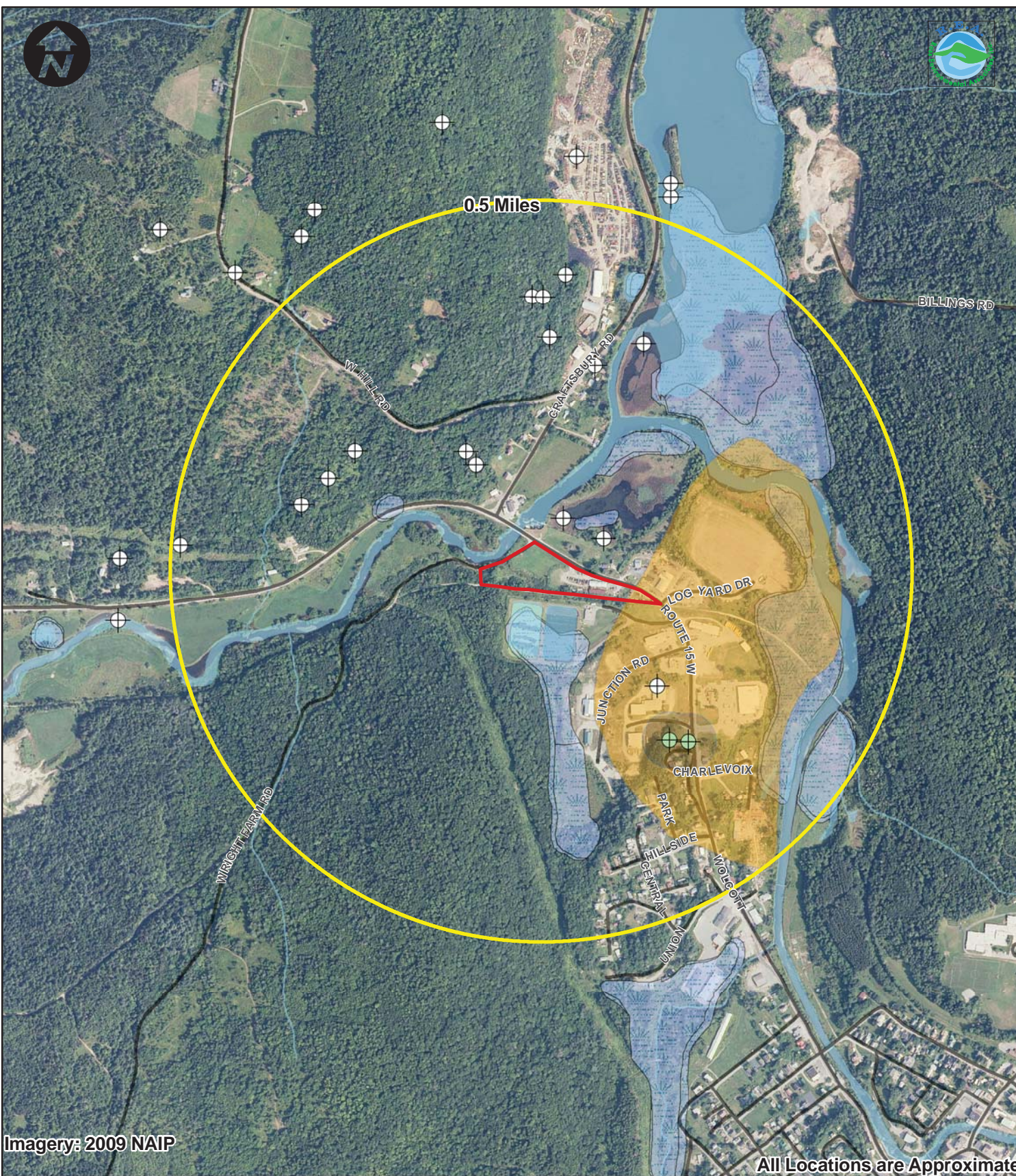
0 250 500
Feet

Site Coordinates: N 44° 30' 58" W 72° 22' 41" (NAD83)

..... 20-ft contour

Subject Property

Figure 3
Surrounding Uses
281 VT Route 15
Wolcott, Vermont



Imagery: 2009 NAIP

All Locations are Approximate

0 500 1,000 2,000 3,000 Feet

Site Coordinates: N 44° 30' 58" W 72° 22' 41" (NAD83)

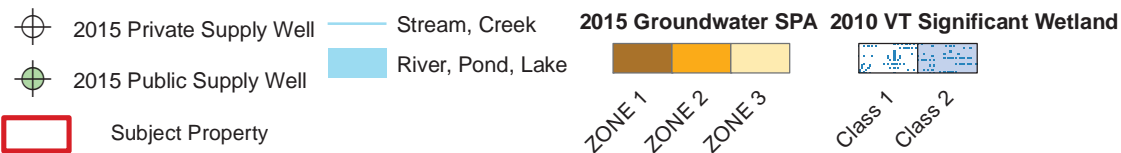


Figure 4
Sensitive Receptors
281 VT Route 15
Wolcott, Vermont

**SITE PHOTOGRAPHS &
HISTORICAL PHOTOGRAPHS**

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B**



Photograph 1. Site overview - View toward east.



Photograph 2. Site overview – View toward west.



Photograph 3. View of lower field and western extent of subject property – View toward east.



Photograph 4. View of lower field and western extent of subject property – View toward west.



Photograph 5. View of adjoining VT route 15 R.O.W. and Lamoille Valley Ford property to north - View toward north



Photograph 6. View of adjoining railroad R.O.W. and southern property boundary – View to south.



Photograph 7. Exterior view of main barn building and adjoining open barn/shed structure – View to west.



Photograph 8. Interior view of open barn/shed - View to east.



Photograph 9. View of empty drums and used tires under open barn/shed structure – View to south.



Photograph 10. View of empty motor oil and misc. containers under open barn/shed structure – View to south.



Photograph 11. Overview inside main barn building/garage area – View to west.



Photograph 12. View of auto maintenance supplies/motor oil/petroleum product containers store inside garage.



Photograph 13. View of used motor oil collection area and slop sink inside barn/garage area - View to west.



Photograph 14. View of garage work area and 275-gallon waste oil AST – View to northwest.



Photograph 15. View of bulk motor oil and transmission fluid dispensers in garage area.



Photograph 16. View of garage work area and open container of used motor oil - View to south.



Photograph 17. View of sealed floor drain centrally located in main garage area within barn building – View to south.



Photograph 18. View of crack in concrete floor along southern exterior wall within garage area of barn building – View to south.

ERS® REPORTS
RADIUS SEARCH REPORT
AERIAL PHOTOGRAPH RESEARCH
HYBRID FIRE INSURANCE MAPS

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RecCheck

The Standard for ASTM/AAI Radius Searches
(One Mile Environmental Records Search, Exceeds ASTM 1527/1528 and EPA All Appropriate Inquiry)

Report Results

REPORT RESULTS



Site Location:

281 Vt Route 15
Hardwick, VT 05843
(N 44-30-57, W 72-22-35) NAD83

Client:

Ross Environmental Associates

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EXECUTIVE SUMMARY

INFORMATION ON THE REQUESTED LOCATION

Site Address:	281 Vt Route 15 Hardwick, VT 05843
Client Project Name/Number:	37-070
Coordinates:	N 44-30-57, W 72-22-35 (NAD 83) 44.515729, -72.3762549
Date of Report	August 21, 2017
ERS Project Number:	2104687912
Subject Site Listed on the following lists:	Not Listed
Subject Site Listed as Map ID#:	N/A
USGS 7.5 Minute Quad Map:	W01cott (Date Unavailable)
Subject Site Located within a Potential Area of Concern:	No
Township, Section and Range:	Electronic TRS is unavailable
Site Elevation: (feet above or below (-) mean sea level)	808
Flood Zone: (FEMA Q3 Digital Data)	Panel: 5000680035C, Effective Date: 6/6/2000 Zone X - Area of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level.
Fire Insurance Map Coverage:	Coverage May Exist in Hardwick. Years: 1898, 1905, 1912, 1922, 1929, 1950. Sources: ERS; University of Vermont, Burlington ; Harvard College Library
Radon Information:	EPA Radon Zone: 2 (Predicted avg for county: 2 to 4 pCi/L)
Search Radius Expansion Size: (In Miles)	0
Soil Type: (USDA Soil Survey Geographic Database) (SSURGO)	Urban land-Adams-Nicholville complex, 8 to 15 percent slopes Map Unit Type: Complex Hydric: No Drainage Class: Moderately well drained General Information: Coarse-silty, mixed, active, frigid Aquic Dystrudepts

Zip Codes Searched for "Un-Mappable" Sites:	Not Researched
Occurrence Count:	36

SUMMARY OF OCCURRENCES

MAP ID	ID/SITE NAME	ADDRESS	DATABASE	STATUS	DISTANCE (MILES)	ELEV DIFF (FEET)
1 Maps: 1 , 2 , 3	962091 Hardwick Motors Inc	Wolcott St Hardwick	LUST-Open-VT	Open	< 0.01 E	2
2 Maps: 1 , 2 , 3	10208012 Al Anair and Sons Pit	Not Reported by Agency	MRDS-US	Listed	0.01 SW	-3
3 Maps: 1 , 2 , 3	10076087 Al Anair and Sons Pit	Not Reported by Agency	MRDS-US	Listed	0.02 SW	-3
4 Maps: 1 , 2 , 3	110039942015 HARDWICK WASTEWATER TREATMENT FACILITY	107 TREATMENT PLANT ROAD HARDWICK	FRS-US	Listed	0.03 S	-4
4 Maps: 1 , 2 , 3	3088 Hardwick Wastewater Treatment Plant	107 Treatment Plant Drive Hardwick	Hist-VT	No Longer Listed	0.03 S	-4
4 Maps: 1 , 2 , 3	3088-16897 Hardwick Wastewater Treatment Plant	107 Treatment Plant Drive Hardwick	Hist-VT	No Longer Listed	0.03 S	-4
4 Maps: 1 , 2 , 3	VT0100137 HARDWICK	107 TREATMENT PLANT RD HARDWICK	ICIS-NPDES-US	Listed	0.03 S	-4
4 Maps: 1 , 2 , 3	3088-16897 Hardwick Wastewater Treatment Plant	107 Treatment Plant Drive Hardwick	UST-VT	Listed	0.03 S	-4
5 Maps: 1 , 2 , 3	VT0100137 HARDWICK W W T F	107 TREATMENT PLANT ROAD HARDWICK /V/	PCS-US	Listed	0.03 S	-3
6 Maps: 1 , 2 , 3	59 Hardwick	Not Reported by Agency	NPDES-VT	Listed	0.03 S	-4
7 Maps: 1 , 2 , 3	972221 Hardwick Wastewater Treatment Plant	Rt 15, Wolcott Rd Hardwick	LUST-Closed-VT	Closed	0.04 S	-6
A1 Maps: 6	50 HARDWICK TOWN WATER SYSTEM	Not Reported by Agency	GW-SPA-VT	Listed	0.05 SE	N/A

MAP ID	ID/SITE NAME	ADDRESS	DATABASE	STATUS	DISTANCE (MILES)	ELEV DIFF (FEET)
8 Maps: 1 , 2 , 3	VTR000002907 LAMOILLE VALLEY FORD INC	222 RTE 15 WEST HARDWICK	HWG-VT	Listed	0.09 E	3
8 Maps: 1 , 2 , 3	VTR000002907 LAMOILLE VALLEY FORD INC	222 RTE 15 WEST HARDWICK	RCRA-CESQG-US	Listed	0.09 E	3
8 Maps: 1 , 2 , 3	75389 LAMOILLE VALLEY FORD detail shop	222 ROUTE 15 WEST HARDWICK	UST2-VT	Listed	0.09 E	3
9 Maps: 1 , 2 , 3	83736 140 JUNCTION ROAD - VERMONT FOOD VENTURE CENTER	140 JUNCTION ROAD HARDWICK	Boilers-VT	Listed	0.1 S	-3
10 Maps: 1 , 2 , 3	6336-9015 Hardwick Industrial Park	Not Reported by Agency	Stormwater-VT	Issued	0.12 S	-3
11 Maps: 1 , 2 , 3	93.01 Hardwick Lake	Not Reported by Agency	Dams-VT	Listed	0.13 NW	-19
12 Maps: 1 , 2 , 3	84513 77 LOGGING ROAD - BOURNES ENERGY	77 LOGGING ROAD HARDWICK	Tank-Unk-VT	Listed	0.14 E	0
13 Maps: 1 , 2 , 3	VT5000001917 ROWELLS BODY SHOP	JCT RTE 14 & 15 HARDWICK	RCRA-NON-US	Listed	0.14 SE	17
14 Maps: 1 , 2 , 3	4907-9003.R Timber Resource Group Hardwick Log Yard	Not Reported by Agency	Stormwater-VT	Issued	0.15 E	-1
15 Maps: 1 , 2 , 3	VTR000518217 KINGDOM METAL FINISHING	190 JUNCTION RD HARDWICK	RCRA-NON-US	Listed	0.17 S	-6
16 Maps: 1 , 2 , 3	73151 HARDWICK ENTERPRISE GROUP/VT NATURAL COATINGS	180 JUNCTION HILL ROAD HARDWICK	Boilers-VT	Listed	0.17 S	-4

MAP ID	ID/SITE NAME	ADDRESS	DATABASE	STATUS	DISTANCE (MILES)	ELEV DIFF (FEET)
16 Maps: 1 , 2 , 3	73151 HARDWICK ENTERPRISE GROUP/VT NATURAL COATINGS	180 JUNCTION HILL ROAD HARDWICK	PrV-VT	Listed	0.17 S	-4
17 Maps: 1 , 2 , 3	6466-9015 Hardwick Industrial Park	Not Reported by Agency	Stormwater-VT	Issued	0.19 SE	24
A2 Maps: 6	51 HARDWICK TOWN WATER SYSTEM	Not Reported by Agency	GW-SPA-VT	Listed	0.2 S	N/A
18 Maps: 1 , 2 , 3	5553334-16754 Former Vermont Milk Company	85 Industrial Park Road Hardwick	UST-PULLED-VT	Pulled	0.2 S	26
19 Maps: 1 , 2 , 3	5677-9015 Hardwick Industrial Park	Not Reported by Agency	Stormwater-VT	Issued	0.2 S	-1
20 Maps: 1 , 2 , 3	6466-9020 Hardwick Industrial Park	Not Reported by Agency	Stormwater-VT	Issued	0.22 S	18
20 Maps: 1 , 2 , 3	6466-9015.1 Hardwick Industrial Park	Not Reported by Agency	Stormwater-VT	Issued	0.22 S	18
21 Maps: 1 , 3	138124 HARDWICK KWIK STOP & DELI	CRAFTSBURY RD & ROUTE 15 Hardwick	Hist-Service Stations	Listed	0.28 SE	3
21 Maps: 1 , 3	941602 House Of Pizza	Route 15 Hardwick	LUST-Open-VT	Open	0.28 SE	3
21 Maps: 1 , 3	870082 Kwikstop	Rt 15 Hardwick	LUST-Open-VT	Open	0.28 SE	3
22 Maps: 1 , 3	80150 Gates Salvage Yard, Inc.	231 Craftsbury Road Hardwick	SWF-VT	LISTED	0.32 N	20
23 Maps: 1 , 3	20033117 Gates Salvage	Route 14 Hardwick	ClosedHazSite-VT	Closed	0.48 N	28
24 Maps: 1 , 3	972129 Sweet And Burt Bulk Facility	Creamery St Hardwick	ClosedHazSite-VT	Closed	0.95 SE	70

POTENTIAL AREAS OF CONCERN/CONTAMINATION SUMMARY

DATABASE SEARCHED	SUBJECT SITE WITHIN POTENTIAL AREA OF CONCERN	AREAS FOUND WITHIN 1-MILE RADIUS
NPL-R1-US	No	0
Military-Bases-US	No	0
SW-SPA-VT	No	0
GW-SPA-VT	No	2

DATABASE OCCURRENCE SUMMARY

HIGH RISK* OCCURRENCES IDENTIFIED IN REQUESTED SEARCH RADIUS		
DATABASE SEARCHED	DISTANCE SEARCHED (MILES)	HIGH RISK OCCURRENCES FOUND
ActHazSite-VT	1	0
BF-Open-VT	0.5	0
CERCLIS-US	0.5	0
LAST-Open-VT	0.5	0
LUST-Open-VT	0.5	3
NPL-US	1	0
Proposed-NPL-US	1	0
SAA-Agreements-US	1	0
Spills-Open-VT	0.0625	0

* For the purposes of this report, "high risk" occurrences are those that have known contamination and have not received a "case closed" or "no further action" status from the agency that maintains the records.

ASTM/AAI STANDARD RECORD SOURCES SUMMARY

STANDARD ENVIRONMENTAL RECORD SOURCES	ASTM MIN. SEARCH DIST. / ERS SEARCH DIST. (MILES)	ERS DATABASE NAME	TOTAL LISTINGS	MAP ID #'S
Federal NPL site list	1.0 / 1.0	NPL-US	0	None Listed
		Proposed-NPL-US	0	None Listed
Federal Delisted NPL site list	0.5 / 1.0	Delisted-NPL-US	0	None Listed
Federal CERCLIS list	0.5 / 0.5	CERCLIS-US	0	None Listed
Federal CERCLIS NFRAP site list	0.5 / 0.5	CERCLIS-Archived-US	0	None Listed
Federal RCRA CORRACTS facilities list	1.0 / 1.0	RCRA-COR-US	0	None Listed
Federal RCRA non-CORRACTS TSD facilities list	0.5 / 0.5	RCRA-TSDF-US	0	None Listed
Federal RCRA generators list	Property and adjoining properties / 0.25	RCRA-CESQG-US	1	8

		RCRA-LQG-US	0	None Listed
		RCRA-NON-US	2	13, 15
		RCRA-SQG-US	0	None Listed
Federal Inst/Eng control registries	Property Only / 0.25	Not Reported by Agency	0	None Listed
Federal ERNS list	Property Only / 0.0625	ERNS-US	0	None Listed
State and Tribal-Equivalent NPL	1.0 / 1.0	Not Reported by Agency	0	None Listed
State and Tribal-Equivalent CERCLIS	0.5 / 0.5	ActHazSite-VT	0	None Listed
		ClosedHazSite-VT	2	23, 24
State and Tribal landfill and/or solid waste disposal sites	0.5 / 0.5	Debris-US	0	None Listed
		Hist-Dumps-US	0	None Listed
		SWF-VT	1	22
		SWLF-US	0	None Listed
		Tribal-ODI-US	0	None Listed
State and Tribal Leaking Storage Tank Lists	0.5 / 0.5	LAST-Closed-VT	0	None Listed
		LAST-Open-VT	0	None Listed
		LUST-Closed-VT	1	7
		LUST-Open-VT	3	1, 21, 21
		Tribal-LUST-Reg1	0	None Listed
State and Tribal Registered Storage Tank Lists	Property and adjoining properties / 0.25	AST2-VT	0	None Listed
		AST-VT	0	None Listed
		FEMA-UST-US	0	None Listed
		RedTag-VT	0	None Listed
		Tank-Unk-VT	1	12
		Tribal-UST-Reg1	0	None Listed
		UST2-VT	1	8
		UST-Insp-VT	0	None Listed
		UST-PULLED-VT	1	18
		UST-VT	1	4
State and Tribal Inst/Eng Control Registries	Property Only / 0.5	IC-VT	0	None Listed
State and Tribal Voluntary Cleanup Sites	0.5 / 0.5	Tribal-VCP-US	0	None Listed
State and Tribal Brownfield Sites	0.5 / 0.5	BF-Closed-VT	0	None Listed
		BF-Open-VT	0	None Listed
		BF-Tribal-US	0	None Listed

FEDERAL ASTM/AAI DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL

FEDERAL ASTM/AAI DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
BF-Tribal-US	0.5	0	0	0	0	-	0
BF-US	0.5	0	0	0	0	-	0
CERCLIS-Archived-US	0.5	0	0	0	0	-	0
CERCLIS-US	0.5	0	0	0	0	-	0
Controls-RCRA-US	0.5	0	0	0	0	-	0
Controls-US	0.5	0	0	0	0	-	0
Debris-US	0.5	0	0	0	0	-	0
Delisted-NPL-US	1	0	0	0	0	0	0
ERNS-US	0.0625	0	0	-	-	-	0
FEMA-UST-US	0.25	0	0	0	-	-	0
FTTS-ENF-US	0.25	0	0	0	-	-	0
Hist-Dumps-US	0.5	0	0	0	0	-	0
Hist-US-EC	0.5	0	0	0	0	-	0
Hist-US-IC	0.5	0	0	0	0	-	0
HMIS-US	0.0625	0	0	-	-	-	0
LIENS-US	0.0625	0	0	-	-	-	0
NPL-US	1	0	0	0	0	0	0
PADS-US	0.0625	0	0	-	-	-	0
PCB-US	0.25	0	0	0	-	-	0
Proposed-NPL-US	1	0	0	0	0	0	0
RCRA-CESQG-US	0.25	0	1	0	-	-	1
RCRA-COR-US	1	0	0	0	0	0	0
RCRA-LQG-US	0.25	0	0	0	-	-	0
RCRA-NON-US	0.25	0	1	1	-	-	2
RCRA-SQG-US	0.25	0	0	0	-	-	0
RCRA-TSDF-US	0.5	0	0	0	0	-	0
SAA-Agreements-US	1	0	0	0	0	0	0
SWLF-US	0.5	0	0	0	0	-	0
Tribal-LUST-Reg1	0.5	0	0	0	0	-	0
Tribal-ODI-US	0.5	0	0	0	0	-	0
Tribal-UST-Reg1	0.25	0	0	0	-	-	0
Tribal-VCP-US	0.5	0	0	0	0	-	0

STATE ASTM/AAI DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
ActHazSite-VT	1	0	0	0	0	0	0
AST2-VT	0.25	0	0	0	-	-	0
AST-VT	0.25	0	0	0	-	-	0
BF-Closed-VT	0.5	0	0	0	0	-	0
BF-Open-VT	0.5	0	0	0	0	-	0
ClosedHazSite-VT	1	0	0	0	1	1	2
HWG-VT	0.25	0	1	0	-	-	1
IC-VT	0.5	0	0	0	0	-	0
LAST-Closed-VT	0.5	0	0	0	0	-	0
LAST-Open-VT	0.5	0	0	0	0	-	0
LUST-Closed-VT	0.5	0	1	0	0	-	1
LUST-Open-VT	0.5	0	1	0	2	-	3
Manifest2-CT	0.0625	0	0	-	-	-	0
Manifest2-RI	0.0625	0	0	-	-	-	0
Manifest-VT	0.0625	0	0	-	-	-	0
RedTag-VT	0.25	0	0	0	-	-	0
Spills-Closed-VT	0.0625	0	0	-	-	-	0

STATE ASTM/AAI DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Spills-Open-VT	0.0625	0	0	-	-	-	0
SWF-VT	0.5	0	0	0	1	-	1
Tank-Unk-VT	0.25	0	1	0	-	-	1
UST2-VT	0.25	0	1	0	-	-	1
UST-Insp-VT	0.25	0	0	0	-	-	0
UST-PULLED-VT	0.25	0	0	1	-	-	1
UST-VT	0.25	0	1	0	-	-	1

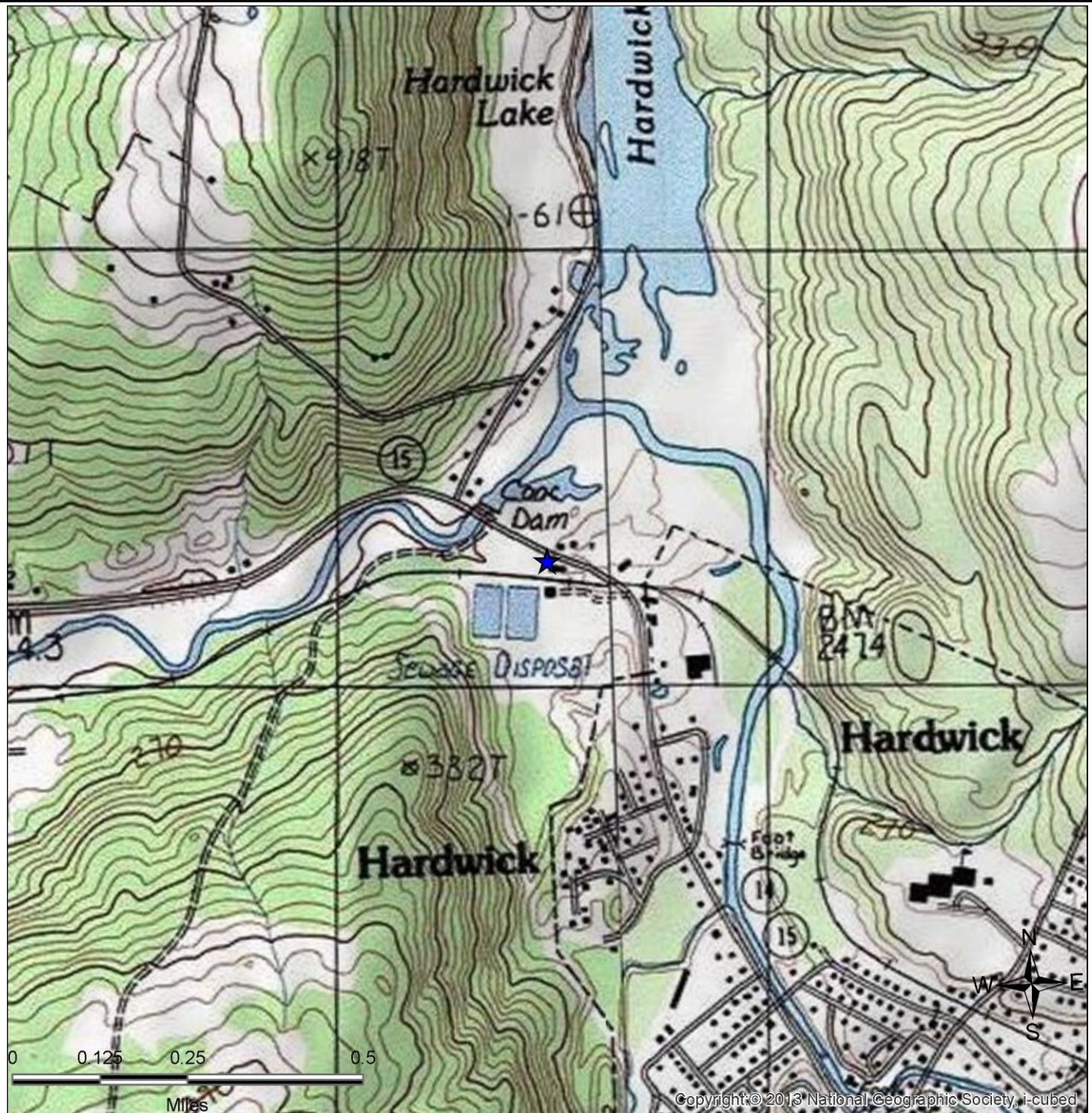
SUPPLEMENTAL DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Air-VT	0.25	0	0	0	-	-	0
ASY-VT	0.25	0	0	0	-	-	0
BioFuel-US	0.25	0	0	0	-	-	0
Boilers-VT	0.25	0	1	1	-	-	2
CDL-US	0.0625	0	0	-	-	-	0
Coal-Ash-Dams-US	0.5	0	0	0	0	-	0
Dams-VT	0.25	0	1	0	-	-	1
Drycleaners-VT	0.25	0	0	0	-	-	0
EGRID-US	0.5	0	0	0	0	-	0
EPA-Watch-List-US	0.25	0	0	0	-	-	0
FA-HW-US	0.0625	0	0	-	-	-	0
FA-HW-VT	0.0625	0	0	-	-	-	0
FRS-US	0.0625	0	1	-	-	-	1
FTTS-INSP-US	0.0625	0	0	-	-	-	0
FUDS-US	1	0	0	0	0	0	0
FUSRAP-US	0.25	0	0	0	-	-	0
Hist-AFS2-US	0.25	0	0	0	-	-	0
Hist-AFS-US	0.25	0	0	0	-	-	0
Hist-CERCLIS-NFRAP-US	0.25	0	0	0	-	-	0
Hist-CERCLIS-US	0.25	0	0	0	-	-	0
Hist-ERNS-US	0.0625	0	0	-	-	-	0
Hist-FIFRA-US	0.25	0	0	0	-	-	0
Hist-FINDS-US	0.0625	0	0	-	-	-	0
Hist-HWS-VT	0.25	0	0	0	-	-	0
Hist-LUST-VT	0.25	0	0	0	-	-	0
HIST-MLTS-US	0.25	0	0	0	-	-	0
Hist-NPL-US	0.25	0	0	0	-	-	0
Hist-OGW-VT	0.0625	0	0	-	-	-	0
Hist-RCRIS-US	0.25	0	0	0	-	-	0
Hist-Recycle-VT	0.25	0	0	0	-	-	0
Hist-Spills-VT	0.0625	0	0	-	-	-	0
Hist-SWF-VT	0.25	0	0	0	-	-	0
Hist-TRIS-US	0.25	0	0	0	-	-	0
Hist-US	0.0625	0	0	-	-	-	0
Hist-UST-VT	0.25	0	0	0	-	-	0
Hist-VT	0.0625	0	2	-	-	-	2
Hist-WaterWells-US	0.0625	0	0	-	-	-	0
Hist-WaterWells-VT	0.0625	0	0	-	-	-	0
ICIS-Air-US	0.0625	0	0	-	-	-	0
ICIS-FEC-US	0.0625	0	0	-	-	-	0
ICIS-NPDES-US	0.0625	0	1	-	-	-	1
Lead-Smelter-2-US	0.25	0	0	0	-	-	0

SUPPLEMENTAL DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Lead-US	0.25	0	0	0	-	-	0
LMOP-US	0.5	0	0	0	0	-	0
MINES-US	0.0625	0	0	-	-	-	0
MLTS-US	0.0625	0	0	-	-	-	0
MRDS-US	0.25	0	2	0	-	-	2
NPDES-VT	0.0625	0	1	-	-	-	1
PCS-US	0.25	0	1	0	-	-	1
PrV-VT	0.25	0	0	1	-	-	1
RADINFO-US	0.0625	0	0	-	-	-	0
RFG-Lab-US	0.25	0	0	0	-	-	0
RMP-US	0.0625	0	0	-	-	-	0
ROD-US	0.5	0	0	0	0	-	0
SDWIS-US	0.25	0	0	0	-	-	0
SSTS-US	0.0625	0	0	-	-	-	0
Stormwater-VT	0.25	0	2	4	-	-	6
Tribal-Air-US	0.25	0	0	0	-	-	0
TRIS2000-US	0.0625	0	0	-	-	-	0
TRIS2010-US	0.0625	0	0	-	-	-	0
TRIS80-US	0.0625	0	0	-	-	-	0
TRIS90-US	0.0625	0	0	-	-	-	0
TSCA-US	0.0625	0	0	-	-	-	0
UIC-VT	0.0625	0	0	-	-	-	0
UMTRA-US	0.0625	0	0	-	-	-	0
USGS-Waterwells-US	0.0625	0	0	-	-	-	0
Vapor-Intrusions-US	0.5	0	0	0	0	-	0
Wells-VT	0.0625	0	0	-	-	-	0

PROPRIETARY HISTORIC DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Hist-Agriculture	0.0625	0	0	-	-	-	0
Hist-Auto Dealers	0.0625	0	0	-	-	-	0
Hist-Auto Repair	0.25	0	0	0	-	-	0
Hist-Chemical Manufacturing	0.0625	0	0	-	-	-	0
Hist-Chemical-Storage	0.0625	0	0	-	-	-	0
Hist-Cleaners	0.25	0	0	0	-	-	0
Hist-Convenience	0.0625	0	0	-	-	-	0
Hist-Disposal-Recycle	0.0625	0	0	-	-	-	0
Hist-Food-Processors	0.0625	0	0	-	-	-	0
Hist-Gun-Ranges	0.0625	0	0	-	-	-	0
Hist-Machine Shop	0.0625	0	0	-	-	-	0
Hist-Manufacturing	0.0625	0	0	-	-	-	0
Hist-Metal Plating	0.0625	0	0	-	-	-	0
Hist-Mining	0.0625	0	0	-	-	-	0
Hist-Mortuaries	0.0625	0	0	-	-	-	0
Hist-Oil-Gas	0.0625	0	0	-	-	-	0
Hist-OilGas-Refiners	0.0625	0	0	-	-	-	0
Hist-Other	0.0625	0	0	-	-	-	0
Hist-Paint-Stores	0.0625	0	0	-	-	-	0
Hist-Petroleum	0.0625	0	0	-	-	-	0
Hist-Post-Offices	0.0625	0	0	-	-	-	0
Hist-Printers	0.0625	0	0	-	-	-	0
Hist-Rental	0.0625	0	0	-	-	-	0

PROPRIETARY HISTORIC DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Hist-RV-Dealers	0.0625	0	0	-	-	-	0
Hist-Salvage	0.0625	0	0	-	-	-	0
Hist-Service Stations	0.25	0	0	0	-	-	1
Hist-Steel-Metals	0.0625	0	0	-	-	-	0
Hist-Textile	0.0625	0	0	-	-	-	0
Hist-Transportation	0.0625	0	0	-	-	-	0
Hist-Trucking	0.0625	0	0	-	-	-	0
Hist-Vehicle-Parts	0.0625	0	0	-	-	-	0
Hist-Vehicle-Washing	0.0625	0	0	-	-	-	0



SITE LOCATION TOPOGRAPHIC MAP

U.S. Geological Survey. W01cott (Date Unavailable) Quadrangle, 7.5 Minute Series

Ross Environmental Associates

281 Vt Route 15
Hardwick, VT 05843

FIGURE: 1
JOB: 37-070
DATE: 8/21/2017



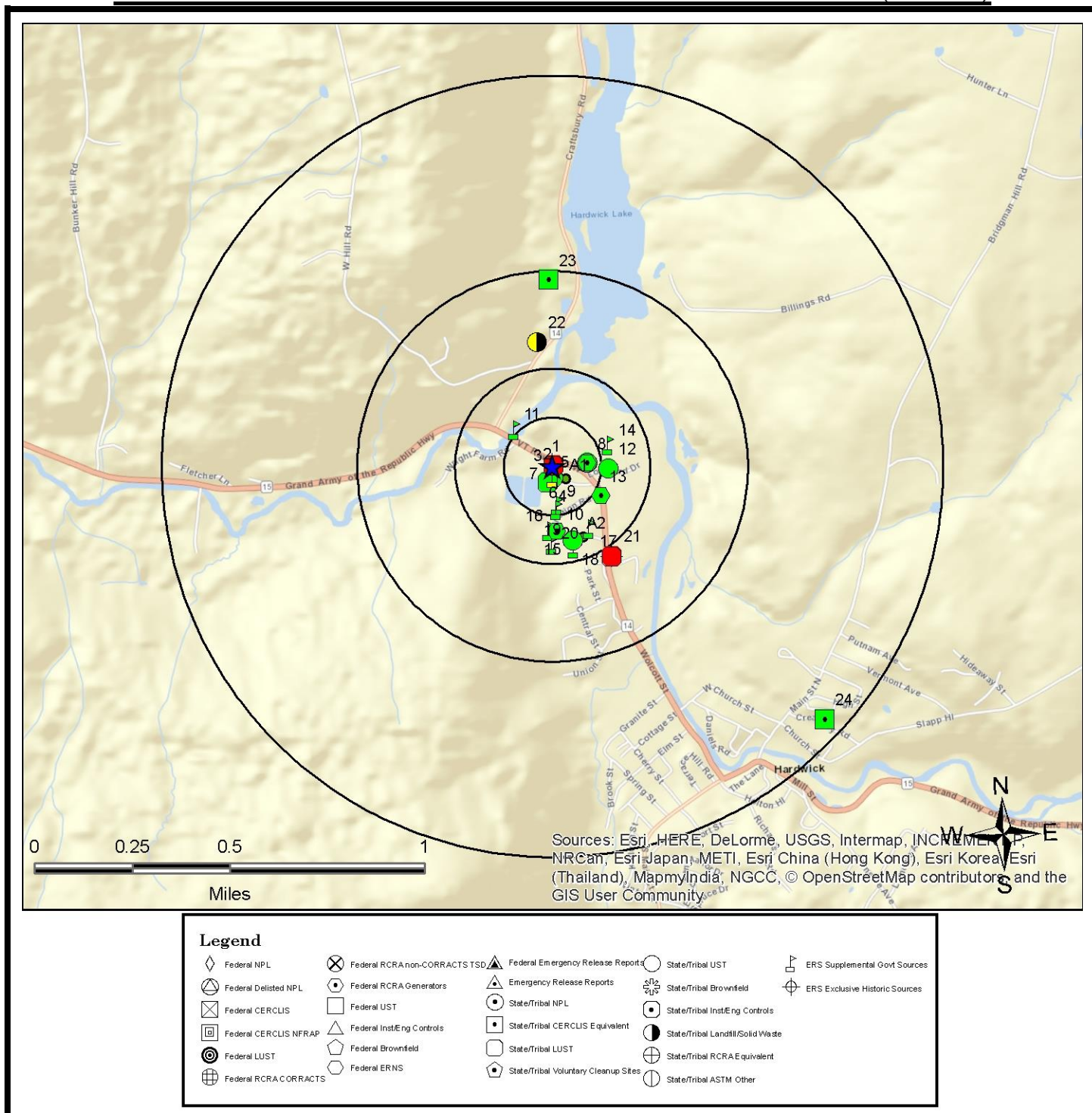
SITE LOCATION MAP

Ross Environmental Associates

281 Vt Route 15
Hardwick, VT 05843

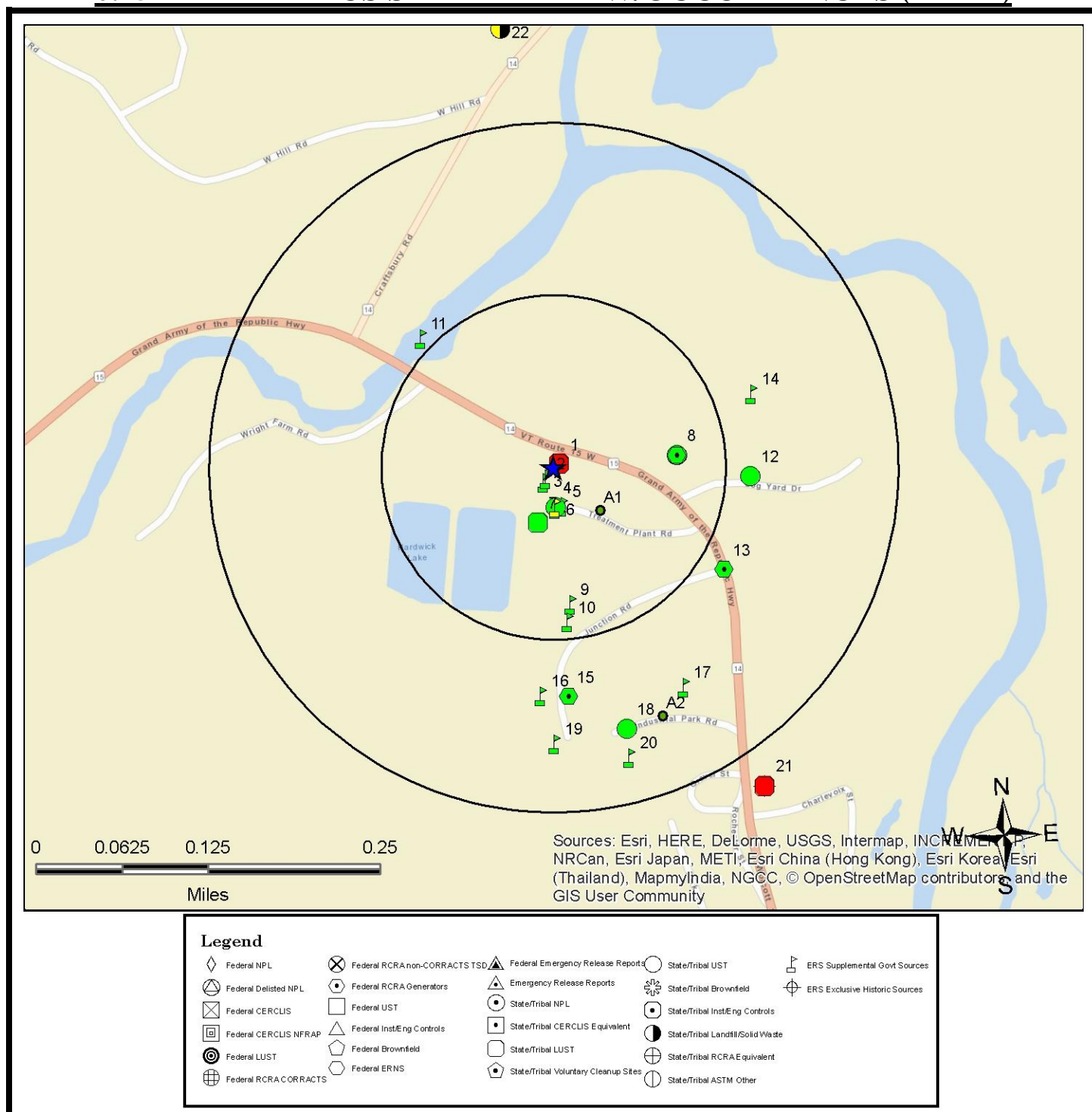
FIGURE: 2
JOB: 37-070
DATE: 8/21/2017

1-MILE RADIUS STREET MAP W/OCCURRENCES (MAP1)



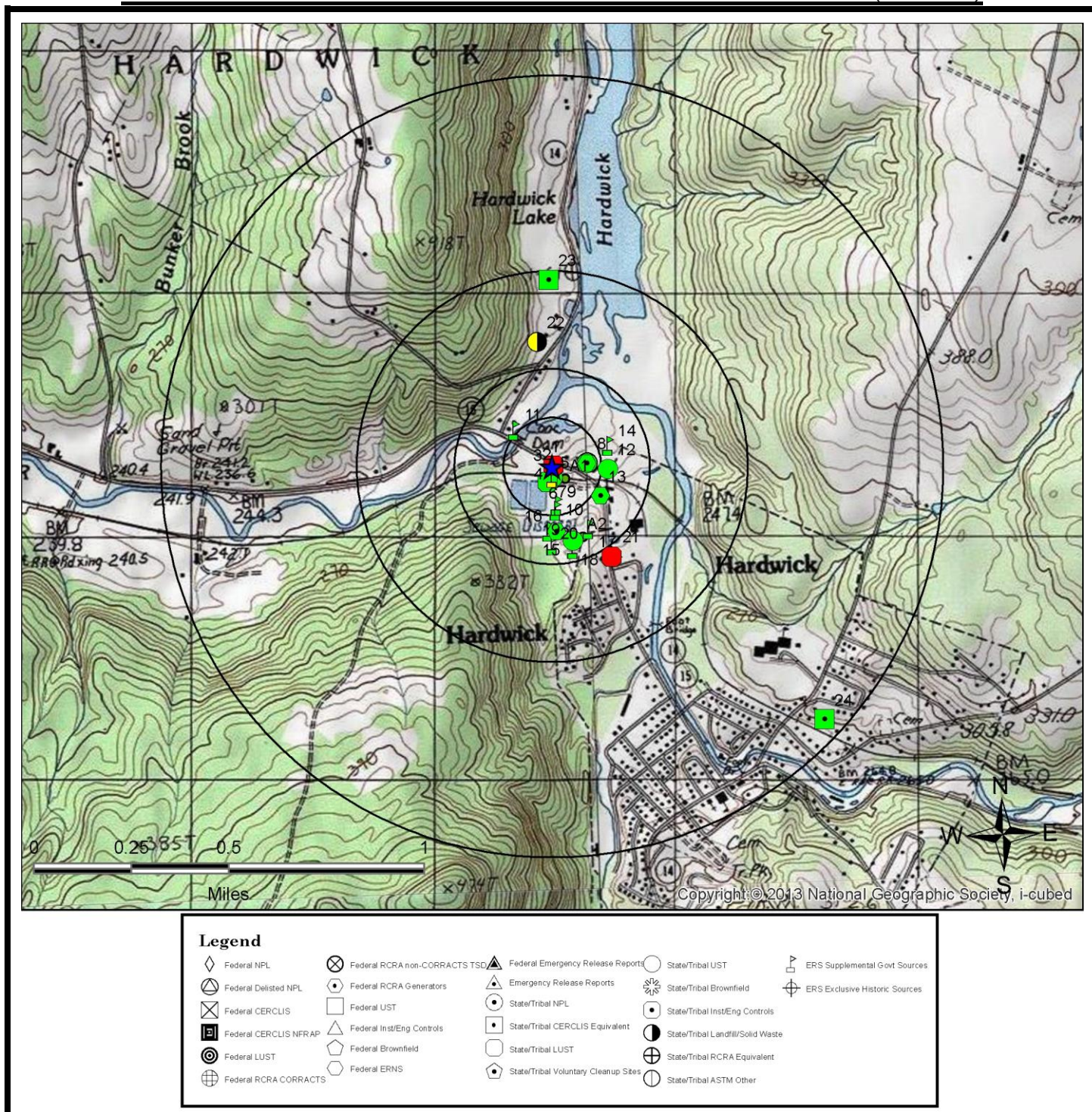
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

0.25-MILE RADIUS STREET MAP W/OCCURRENCES (MAP2)



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

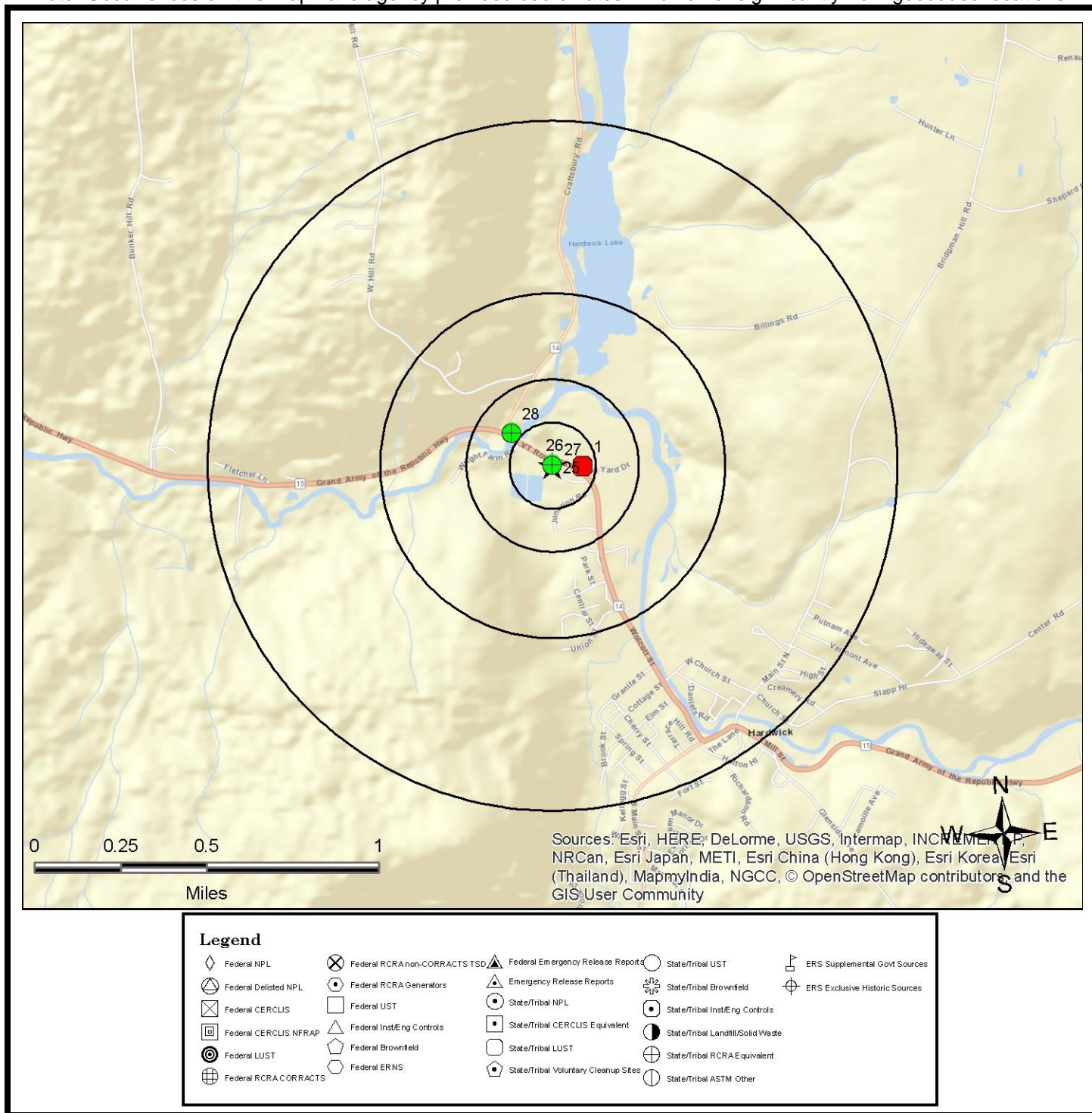
1-MILE TOPOGRAPHIC MAP W/OCCURRENCES (MAP3)



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

AGENCY DIFFERENCES IN MAPPED LOCATIONS (MAP4)

Note: Occurrences on this map have agency provided coordinates which differ significantly from geocoded locations.



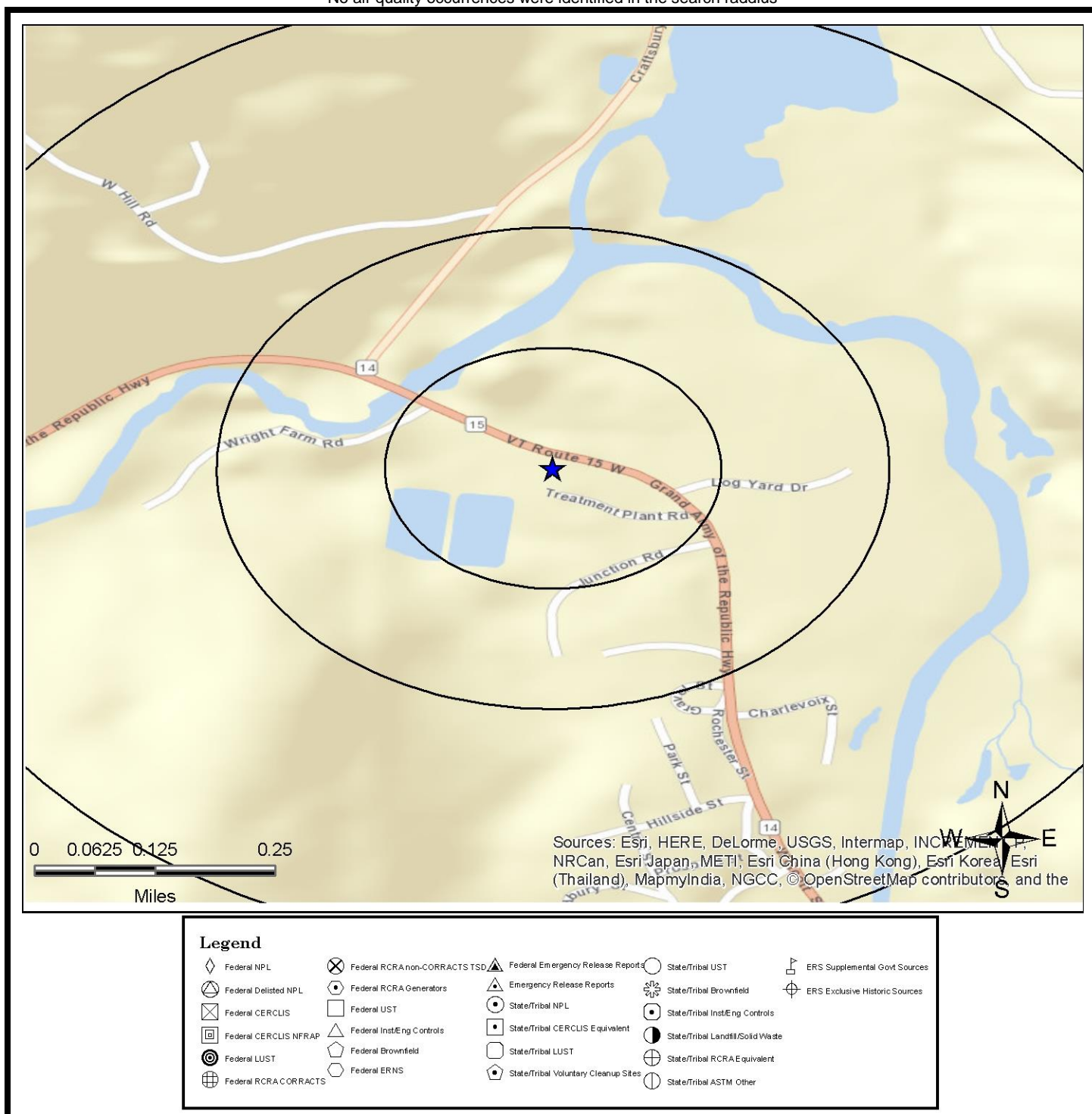
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SUMMARY OF AGENCY DIFFERENCES

MAP ID	ID / SITE NAME	ADDRESS / DATABASE	AGENCY COORDINATES	DISTANCE (MILES)	DIRECTION
1	962091 Hardwick Motors Inc	Wolcott St LUST-Open-VT	-72.37447, 44.51562	0.09	E
25	VT5000001230 GREENSBORO GARAGE INC	281 VT RTE 15 Hist-VT	-72.37627, 44.51573	0	W
26	VT5000001230 THE BIG YELLOW BARN INC	281 VT RTE 15 W HWG-VT	-72.37627, 44.51573	0	W
27	D9DFBA9D-962091 Hardwick Motors Inc	Wolcott St Hist-VT	-72.3762, 44.5157	0	SE
28	VTR000514521 HARDWICK KWIK STOP & DELI INC	454 VT RTE 15 WEST HWG-VT	-72.3786, 44.51711	0.15	NW

MAPPED AIR PERMITS WITH POTENTIAL DISPERSION (MAP5)

Note: Occurrences on this map are reported in Air Quality databases. Potential air plumes are drawn in the direction of the prevailing wind.
No air quality occurrences were identified in the search radius

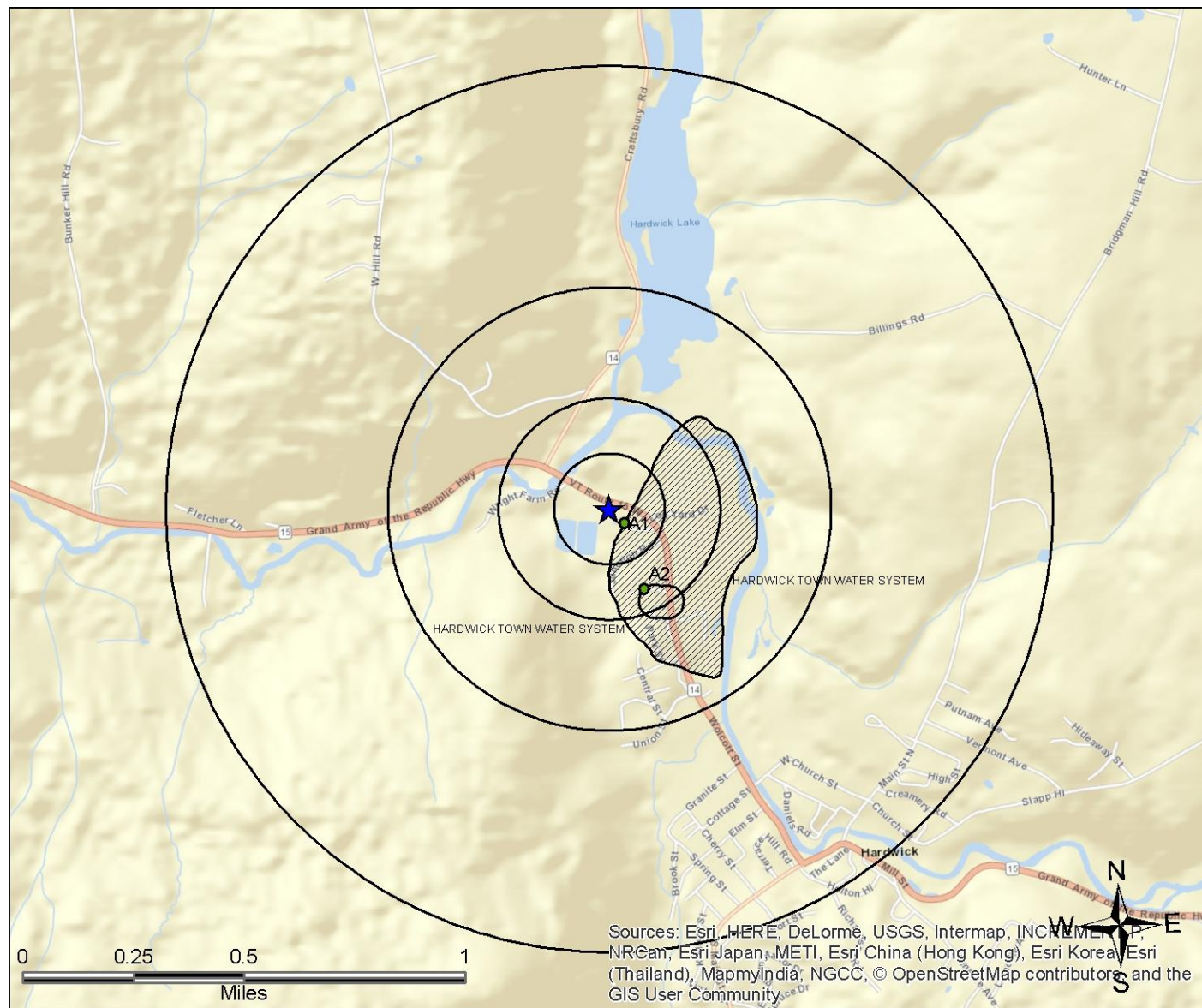


All plotted occurrences represent approximate locations based on geographic information provided by the respective agency/source. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. Potential air dispersion plumes are depicted to graphically show the direction contaminants may travel based on prevailing wind data and provide a visual screening tool only. Actual direction will vary especially by season. Depending on the actual contaminate, amount released, and other variables, the distance from the source the contaminate may travel can and will vary. Interpretation and review of all the actual relevant data by an environmental professional is recommended before making any decisions, conclusions or otherwise based on the map depictions, air data, and potential air dispersion plumes.

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POTENTIAL AREAS OF CONCERN/CONTAMINATION (MAP6)

Note: Locations shown may represent site boundaries, contamination plumes, or other information. See descriptions in the Listed Occurrence Details for more information.



Legend

 GW-SPA-VT

LISTED OCCURRENCE DETAILS

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
LUST-Open-VT	Open	< 0.01 miles E	810 ft (2 ft higher than site)	1
SITE NAME			MAPS	ID
Hardwick Motors Inc			1 , 2 , 3	962091
ADDRESS			CITY	ZIP
Wolcott St			Hardwick	
DETAILS				
<p>Facility Information</p> <p>URL: https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=962091</p> <p>Site Number: 962091</p> <p>Closure Date: Not Reported</p> <p>County: Caledonia</p> <p>Priority: Site with contamination to soils or groundwater, but no effect on sensitive receptors</p> <p>DEC Staff Person: Richard Spiese</p> <p>Land Use Restrictions: No</p> <p>Source of Contaminant: UST-Gasoline</p> <p>Contaminant: Gasoline</p> <p>Project Status: Annual monitoring of on site wells needed to track variations in groundwater quality. New MWs in installed in 2011 to further characterize GW contamination. Site in MNA.</p> <p>Agency Provided Latitude: 44.5156176521358</p> <p>Agency Provided Longitude: -72.3744679522417</p> <p>Additional Details</p> <p>Site Use: Business</p> <p>Priority: LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors</p> <p>Site Status: Voluntary Action</p> <p>Institutional Control: Not Reported</p> <p>Site Closure Date: Not Reported</p> <p>DEC Contact Email Address: Richard.Spiese@vermont.gov</p> <p>Record Last Updated: 01-26-2017</p> <p>Relationships URL: https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=962091</p> <p>Relationships Type: Hazsite</p> <p>Relationships ID1: 962091</p> <p>Relationships ID2: Not Reported</p> <p>More Details Link</p>				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
MRDS-US	Listed	0.01 miles SW	805 ft (3 ft lower than site)	2
SITE NAME			MAPS	ID
Al Anair and Sons Pit			1 , 2 , 3	10208012
ADDRESS			CITY	ZIP
Not Reported by Agency				
DETAILS				
<p>Mineral Resource Data Systems (MRDS) Mineral Resources On-Line Spatial Data: http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10208012 Deposit ID: 10208012 Code List: SDG Development Status: Past Producer</p> <p>Ages Information : Not Reported</p> <p>Analytical Data Information : Not Reported</p> <p>Comment(s) Information : Not Reported</p> <p>Commodity Information Commodity Code: SDG Commodity Name: Sand and Gravel, Construction Commodity Type: Non-metallic Commodity Group: Sand and Gravel</p> <p>Concentration Processes Information : Not Reported</p> <p>Deposit Information MAS ID: 0500050001 MRDS ID: W023009 Record Type: Site Development Status: Past Producer</p> <p>More Details Link</p>				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
MRDS-US	Listed	0.02 miles SW	805 ft (3 ft lower than site)	3
SITE NAME			MAPS	ID
Al Anair and Sons Pit			1 , 2 , 3	10076087
ADDRESS			CITY	ZIP
Not Reported by Agency				
DETAILS				
<p>Mineral Resource Data Systems (MRDS) Mineral Resources On-Line Spatial Data: http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10076087 Deposit ID: 10076087 Code List: SDG Development Status: Past Producer</p> <p>Ages Information : Not Reported</p> <p>Analytical Data Information : Not Reported</p> <p>Comment(s) Information : Not Reported</p> <p>Commodity Information Commodity Code: SDG Commodity Name: Sand and Gravel, Construction Commodity Type: Non-metallic Commodity Group: Sand and Gravel</p> <p>Concentration Processes Information : Not Reported</p> <p>Deposit Information MAS ID: Not Reported MRDS ID: W023009 Record Type: Site Development Status: Past Producer</p> <p>More Details Link</p>				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
FRS-US	Listed	0.03 miles S	804 ft (4 ft lower than site)	4
SITE NAME			MAPS	ID
HARDWICK WASTEWATER TREATMENT FACILITY			1 , 2 , 3	110039942015
ADDRESS			CITY	ZIP
107 TREATMENT PLANT ROAD			HARDWICK	05843
DETAILS				
<p>Registry ID: 110039942015 FRS Detail Report URL: http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110039942015 County: CALEDONIA FIPS C0de: 50005 Site Type Name: STATIONARY Update Date: 11-JAN-2016 15:14:25 Program System: NPDES INTEREST_TYPES: ICIS-NPDES NON-MAJOR, POTW Agency Provided Longitude: -72.37617 Agency Provided Latitude: 44.51527</p>				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Hist-VT	No Longer Listed	0.03 miles S	804 ft (4 ft lower than site)	4
SITE NAME			MAPS	ID
Hardwick Wastewater Treatment Plant			1 , 2 , 3	3088
ADDRESS			CITY	ZIP
107 Treatment Plant Drive			Hardwick	

DETAILS

Original Database: UST-VT
 Last Agency Status: Listed
 Archive Date: 09/01/15
 No Longer Listed-Facility ID: 3088
 URL: <https://anrweb.vt.gov/DEC/ERT/UST2.aspx?ustfacilityid=73> Visit this website for more information and search by Facility ID.
 Facility County: Caledonia
 Facility Phone Number: 802-472-5949
 Permitted To: Not Reported
 Owner Name: Town of Hardwick
 Owner Person: Town Manager
 Owner Address: PO Box 523
 Owner City: Hardwick
 Owner State: VT
 Owner Zip: 05843
 Owner Phone Number: 802-472-6120
 Operator Name: Town of Hardwick
 Operator Person: Town Manager
 Operator Address: PO Box 523
 Operator City: Hardwick
 Operator State: VT
 Operator Zip: 05843
 Operator Phone Number: 802-472-6120
 Landowner: Town of Hardwick
 Type of Facility: Town
 Permit Expires: Not Reported
 Fee Status: Not Reported
 Receipt: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Hist-VT	No Longer Listed	0.03 miles S	804 ft (4 ft lower than site)	4
SITE NAME			MAPS	ID
Hardwick Wastewater Treatment Plant			1 , 2 , 3	3088-16897
ADDRESS			CITY	ZIP
107 Treatment Plant Drive			Hardwick	05843

DETAILS

Original Database: UST-PULLED-VT
 Last Agency Status: Pulled
 Archive Date: 01/04/16
 No Longer Listed-Facility Information
 Facility ID: 3088
 Facility Status: ACTIVE
 Facility County: Caledonia
 Facility Phone Number: 802-472-5949
 Facility Type: Town
 Permitted To: Not Reported
 Permit Expires: Not Reported
 Owner Name: Town of Hardwick
 Owner Person: Town Manager
 Owner Address: PO Box 523
 Owner City: Hardwick
 Owner State: VT
 Owner Zip: 5843
 Owner Phone Number: 802-472-6120
 Operator Name: Town of Hardwick
 Operator Person: Town Manager
 Operator Address: PO Box 523
 Operator City: Hardwick
 Operator State: VT
 Operator Zip: 5843
 Operator Phone Number: 802-472-6120
 Land Owner: Town of Hardwick
 Fee Status: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
ICIS-NPDES-US	Listed	0.03 miles S	804 ft (4 ft lower than site)	4
SITE NAME			MAPS	ID
HARDWICK			1 , 2 , 3	VT0100137
ADDRESS			CITY	ZIP
107 TREATMENT PLANT RD			HARDWICK	05843

DETAILS

Facility & Permit Information
 ICIS Facility Interest ID: 3329412
 Facility Registry Service (FRS) ID: 110039942015
 Facility Type: Not Reported
 Supplemental Address Info: Not Reported
 County FIPS Code: VT005
 Agency Provided Latitude: 44.51527
 Agency Provided Longitude: -72.37617
 Impaired Waters: Not Reported
 Activity ID: 3200124992
 Facility Type Indicator: NON-POTW
 Permit Type: NPDES Individual Permit
 Major Minor Status Flag: N
 Permit Status: ADC - Administratively Continued
 Total Design Flow Number: Not Reported
 Actual Average Flow Number: Not Reported
 State Water Body Code: Not Reported
 State Water Body Name: Not Reported
 Permit Name: Town of Hardwick
 Agency Type: ST6 - State
 Original Issue Date: 08/20/2004
 Issue Date: 08/20/2004
 Issuing Agency: Vermont DEC
 Effective Date: 01/01/2005
 Expiration Date: 12/31/2009
 Retirement Date: Not Reported
 Termination Date: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
UST-VT	Listed	0.03 miles S	804 ft (4 ft lower than site)	4
SITE NAME			MAPS	ID
Hardwick Wastewater Treatment Plant			1 , 2 , 3	3088-16897
ADDRESS			CITY	ZIP
107 Treatment Plant Drive			Hardwick	05843

DETAILS

Facility Information

URL: <https://anrweb.vt.gov/DEC/ERT/UST2.aspx?FacID=3088>

Facility ID: 3088

Facility Status: ACTIVE

Facility County: Caledonia

Facility Phone Number: 802-472-5949

Facility Type: Town

Permitted To: Not Reported

Permit Expires: Not Reported

Owner Name: Town of Hardwick

Owner Person: Town Manager

Owner Address: PO Box 523

Owner City: Hardwick

Owner State: VT

Owner Zip: 05843

Owner Phone Number: 802-472-6120

Operator Name: Town of Hardwick

Operator Person: Town Manager

Operator Address: PO Box 523

Operator City: Hardwick

Operator State: VT

Operator Zip: 05843

Operator Phone Number: 802-472-6120

Land Owner: Town of Hardwick

Fee Status: Not Reported

Receipt: Not Reported

Tanks Pulled: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
PCS-US	Listed	0.03 miles S	805 ft (3 ft lower than site)	5
SITE NAME			MAPS	ID
HARDWICK W W T F			1 , 2 , 3	VT0100137
ADDRESS			CITY	ZIP
107 TREATMENT PLANT ROAD			HARDWICK /V/	

DETAILS

URL: <http://www.epa-echo.gov/cgi-bin/get1cReport.cgi?tool=echo&IDNumber=VT0100137>

Facility Active?: Active

Major Discharger Indicator: Minor Discharger

Facility Type: Municipal

Sic Code: 4952

Permit Issued Date: 08/20/2004

Permit Expiration Date: 12/31/2009

Receiving Waters Name: LAMOILLE RIVER

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
NPDES-VT	Listed	0.03 miles S	804 ft (4 ft lower than site)	6
SITE NAME			MAPS	ID
Hardwick			1 , 2 , 3	59
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS

Note: This is an ERS assigned Automated ID.

Class: 2DM

Agency Provided Latitude: 44.515239

Agency Provided Longitude: -72.3762668

Certificate Number: 1356

Grade: 2DM

Title: WW Chief Operator

First Name: Kenneth

Last Name: LaCasse

Phone Number: (802) 472-5939

Certificate Number: 1672

Grade: 1DM

Title: WW Operator

First Name: Kolin

Last Name: Barclay

Phone Number: (802) 472-5939

Certificate Number: 1719

Grade: 5DMP

Title: WW Operator

First Name: Jon

Last Name: Jewett

Phone Number: (802) 472-6120

Certificate Number: 1787

Grade: 2DMP

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
LUST-Closed-VT	Closed	0.04 miles S	802 ft (6 ft lower than site)	7
SITE NAME			MAPS	ID
Hardwick Wastewater Treatment Plant			1 , 2 , 3	972221
ADDRESS			CITY	ZIP
Rt 15, Wolcott Rd			Hardwick	

DETAILS

Facility Information

URL: <https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=972221>
 Site Number: 972221
 Closure Date: 4/1/1999 12:00:00 AM
 County: Lamoille
 Priority: Site Management Activities Completed
 DEC Staff Person: Unassigned
 Land Use Restrictions: No
 Source of Contaminant: UST-Gasoline
 Contaminant: Heating Oil
 Project Status: Investigation completed. No groundwater contamination. Site closed.
 Agency Provided Latitude: 44.5151096485
 Agency Provided Longitude: -72.3765258954

Additional Details

Site Use: Public Utility
 Priority: SMAC - Site Management Activities Completed
 Site Status: Not Reported
 Institutional Control: Not Reported
 Site Closure Date: 04-01-1999
 DEC Contact Email Address: Chuck.Schwer@vermont.gov
 Record Last Updated: 04-21-2005
 Relationships URL: <https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=972221>
 Relationships Type: Hazsite
 Relationships ID1: 972221
 Relationships ID2: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
GW-SPA-VT	Listed	0.05 miles SE	N/A	A1
SITE NAME			MAPS	ID
HARDWICK TOWN WATER SYSTEM			6	50
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS
<p>WSID: VT0005039 System Type: C STATUS: A Population: 1900 ZONE: ZONE 2 FACILITY: WL001,WL003</p>

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
HWG-VT	Listed	0.09 miles E	811 ft (3 ft higher than site)	8
SITE NAME			MAPS	ID
LAMOILLE VALLEY FORD INC			1 , 2 , 3	VTR000002907
ADDRESS			CITY	ZIP
222 RTE 15 WEST			HARDWICK	05843

DETAILS
<p>Facility Information URL: https://anrweb.vt.gov/DEC/ERT/Manifests.aspx Search by ID, or by Facility Name. EPA ID: VTR000002907 Mailing Name: LAMOILLE VALLEY FORD INC Status: CEG</p> <p>Additional Facility and GIS Information ESRI ID: 451 Status Code: CEG Status: Conditionally Exempt Generator, generates less than 220 pounds of hazardous waste per month Agency Provided Longitude: -72.3744872308 Agency Provided Latitude: 44.5157548135</p>

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
RCRA-CESQG-US	Listed	0.09 miles E	811 ft (3 ft higher than site)	8
SITE NAME			MAPS	ID
LAMOILLE VALLEY FORD INC			1 , 2 , 3	VTR000002907
ADDRESS			CITY	ZIP
222 RTE 15 WEST			HARDWICK	05843
DETAILS				
<p>Additional details may be found online using the following link: http://oaspub.epa.gov/enviro/fii_query_dtl_disp_program_facility?pgm_sys_id_in=VTR000002907&pgm_sys_acrnm_in=RCRAINFO Source Type: Notification Generator Status Universe: CEG Generator Status: Conditionally Exempt Small Quantity Generator NAICS1: AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE Active Site Indicator: H---- Owner Name: LAMOILLE VALLEY FORD Operator Name: P2 In Handler Universes: Y In a Universe: Y Short Term Generator: N Importer Activity: N Mixed Waste Generator: N Transporter Activity: N Transfer Facility: N Recycler Activity: N Onsite Burner Exemption: N Furnace Exemption: N Underground Injection Activity: N Receives Waste From Off-site: N Universal Waste: N Universal Waste Destination Facility: N Used Oil Universe: NNNNNNN Federal Universal Waste: N Active Site Federally Regulated TSDF: ----- Active Site Converter TSDF: ----- More Details Link</p>				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
UST2-VT	Listed	0.09 miles E	811 ft (3 ft higher than site)	8
SITE NAME			MAPS	ID
LAMOILLE VALLEY FORD detail shop			1 , 2 , 3	75389
ADDRESS			CITY	ZIP
222 ROUTE 15 WEST			HARDWICK	05843
DETAILS				
Structure ID: 75389 Address Line 2: Not Reported Tank Work Item Id: 247847 Tank State Number: 247847 Tank Serial Number: Not Reported Work: 4000 GAL GAS TANK (4000 GAL UNDERGRD GAS TANK 8/06) Location: Not Reported Tank Type: Not Reported Gallons: Not Reported UST: Yes AST and UST: Not Reported				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Boilers-VT	Listed	0.1 miles S	805 ft (3 ft lower than site)	9
SITE NAME			MAPS	ID
140 JUNCTION ROAD - VERMONT FOOD VENTURE CENTER			1 , 2 , 3	83736
ADDRESS			CITY	ZIP
140 JUNCTION ROAD			HARDWICK	05843

DETAILS

Structure ID: 83736
 Event Name: IBINSP
 State #: 36273
 Event Date: 2/7/2012
 Type: Boilers
 National #: Not Reported
 Object Type: Not Reported
 Fuel Type: Not Reported
 Inspection Cycle of the Equipment in Years: 2
 Fire Method: Not Reported
 Use Type: Not Reported
 Status: in
 Pounds Per Square Inch: 0
 British Thermal Unit: 0
 Expiration Date: 2/7/2014
 Owner ID: 0
 Owner Last: Not Reported
 Owner First: Not Reported
 Owner Address: Not Reported
 Owner City: HARDWICK
 Manufacturer ID: 310
 Manufacturer Year: 0
 Manufacturer Last: FM GLOBAL
 Manufacturer First: Not Reported
 Insurance ID: 0
 Insurance Last: NULL
 Insurance First: NULL

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Stormwater-VT	Issued	0.12 miles S	805 ft (3 ft lower than site)	10
SITE NAME			MAPS	ID
Hardwick Industrial Park			1 , 2 , 3	6336-9015
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS

PDF Link: <https://anrweb.vt.gov/PubDocs/DEC/Stormwater/Permits/6336-9015.pdf>

Permit Number: 6336-9015

Project ID: SJ95ΓÇô0097.

Contact Name: Thomas Benoit

Permit Status: Issued

Permit Status Date: 3/23/2010

Expiration Date: 3/23/2020

Filed Local Records? (Y/N): UNKNOWN

Renew Date: 1/23/2020

Operating Fee Due Date: 4/23/2016

MS4 Semi-Annual Inspection Due Date: Not Reported

Inspection Report Due Date: 11/1/2010

Restate Compliance Due Date: 3/23/2013

ESRI OID: 3067

Agency Provided Latitude: 44.514056

Agency Provided Longitude: -72.376139

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Dams-VT	Listed	0.13 miles NW	789 ft (19 ft lower than site)	11
SITE NAME			MAPS	ID
Hardwick Lake			1 , 2 , 3	93.01
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS

State ID: 93.01
 National ID: VT00186
 FERC Number: Not Reported
 Town Name: Hardwick
 Stream Name: Lamoille River
 Basin Name: Lamoille River
 Agency Provided Latitude: 44.517079
 Agency Provided Longitude: -72.378163
 Owner Name: Hardwick Electric Department
 Owner Type: Local Government
 Reservoir Type: Artificial
 Surface Area (ACRES): 180
 Drainage Area (SQMI): 122.1
 Normal Storage (ACRE Ft): 900
 Max Storage (ACRE Ft): 2000
 Dam Status: In Service
 Purposes: Hydroelectric
 Dam Type: Concrete, Gravity
 Dam Length (Ft): 523
 Dam Height (Ft): 20
 Max Discharge (CFS): 8100
 Year Built: 1920
 Original Purpose: Not Reported
 State Regulator: Department of Environmental Conservation
 Federal Regulator: None
 Dam Hazard Class: Significant Hazard Potential
 VDI Date: 2015-12-29T09:59:11.000Z

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Tank-Unk-VT	Listed	0.14 miles E	808 ft (0 ft higher than site)	12
SITE NAME			MAPS	ID
77 LOGGING ROAD - BOURNES ENERGY			1 , 2 , 3	84513
ADDRESS			CITY	ZIP
77 LOGGING ROAD			HARDWICK	05843

DETAILS

Structure ID: 84513
 Address Line 2: Not Reported
 Tank Work Item ID: 305254
 Tank State Number: m418645
 Tank Serial Number: Not Reported
 Work: 2000 DIESEL (DIESEL)
 Location: Not Reported
 Tank Type: Not Reported
 Gallons: Not Reported
 Unknown: Yes

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
RCRA-NON-US	Listed	0.14 miles SE	825 ft (17 ft higher than site)	13
SITE NAME			MAPS	ID
ROWELLS BODY SHOP			1 , 2 , 3	VT5000001917
ADDRESS			CITY	ZIP
JCT RTE 14 & 15			HARDWICK	05843

DETAILS

Additional details may be found online using the following link:

http://oaspub.epa.gov/enviro/fii_query_dtl_disp_program_facility?pgm_sys_id_in=VT5000001917&pgm_sys_acrnm_in=RCRAINFO

Source Type: Implementer

Generator Status Universe: N

Generator Status: Non-Generator

Active Site Indicator: -----

Owner Name: DONA BESSETTE

Operator Name: P1

In Handler Universes: N

In a Universe: N

Short Term Generator: N

Importer Activity: N

Mixed Waste Generator: N

Transporter Activity: N

Transfer Facility: N

Recycler Activity: N

Onsite Burner Exemption: N

Furnace Exemption: N

Underground Injection Activity: N

Receives Waste From Off-site: N

Universal Waste: N

Universal Waste Destination Facility: N

Used Oil Universe: NNNNNNN

Federal Universal Waste: N

Active Site Federally Regulated TSDF: -----

Active Site Converter TSDF: -----

Active Site State Regulated TSDF: -----

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Stormwater-VT	Issued	0.15 miles E	807 ft (1 ft lower than site)	14
SITE NAME			MAPS	ID
Timber Resource Group Hardwick Log Yard			1 , 2 , 3	4907-9003.R
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS

PDF Link: <https://anrweb.vt.gov/PubDocs/DEC/Stormwater/Permits/4907-9003.R.pdf>

Permit Number: 4907-9003.R

Project ID: SJ09-0137

Contact Name: Christy Witters

Permit Status: Issued

Permit Status Date: 12/14/2011

Expiration Date: 8/4/2016

Filed Local Records? (Y/N): NO

Renew Date: Not Reported

Operating Fee Due Date: 3/7/2018

MS4 Semi-Annual Inspection Due Date: Not Reported

Inspection Report Due Date: Not Reported

Restate Compliance Due Date: Not Reported

ESRI OID: 2156

Agency Provided Latitude: 44.516389

Agency Provided Longitude: -72.373333

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
RCRA-NON-US	Listed	0.17 miles S	802 ft (6 ft lower than site)	15
SITE NAME			MAPS	ID
KINGDOM METAL FINISHING			1 , 2 , 3	VTR000518217
ADDRESS			CITY	ZIP
190 JUNCTION RD			HARDWICK	05843

DETAILS

Additional details may be found online using the following link:
http://oaspub.epa.gov/enviro/fii_query_dtl_disp_program_facility?pgm_sys_id_in=VTR000518217&pgm_sys_acnm_in=RCRAINFO
 Source Type: Implementer
 Generator Status Universe: N
 Generator Status: Non-Generator
 NAICS1: MACHINE SHOPS
 NAICS2: ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING
 Active Site Indicator: -----
 Owner Name: GARY WHIPPLE
 Operator Name: P1
 In Handler Universes: N
 In a Universe: N
 Short Term Generator: N
 Importer Activity: N
 Mixed Waste Generator: N
 Transporter Activity: N
 Transfer Facility: N
 Recycler Activity: N
 Onsite Burner Exemption: N
 Furnace Exemption: N
 Underground Injection Activity: N
 Receives Waste From Off-site: N
 Universal Waste: N
 Universal Waste Destination Facility: N
 Used Oil Universe: NNNNNNN
 Federal Universal Waste: N
 Active Site Federally Regulated TSDF: -----

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Boilers-VT	Listed	0.17 miles S	804 ft (4 ft lower than site)	16
SITE NAME			MAPS	ID
HARDWICK ENTERPRISE GROUP/VT NATURAL COATINGS			1 , 2 , 3	73151
ADDRESS			CITY	ZIP
180 JUNCTION HILL ROAD			HARDWICK	05843

DETAILS

Structure ID: 73151
 Event Name: IBINSP
 State #: 30294P
 Event Date: 3/1/2013
 Type: Boilers
 National #: 144824
 Object Type: Fire Tube
 Fuel Type: Other
 Inspection Cycle of the Equipment in Years: 1
 Fire Method: Automatic Burner
 Use Type: Process
 Status: in
 Pounds Per Square Inch: 150
 British Thermal Unit: 0
 Expiration Date: 3/1/2014
 Owner ID: 66749
 Owner Last: HARDWICK ENTERPRISE GROUP LLC
 Owner First: Not Reported
 Owner Address: ATTN: ANDREW MEYER
 Owner City: HARDWICK
 Manufacturer ID: 643
 Manufacturer Year: 2004
 Manufacturer Last: COLUMBIA
 Manufacturer First: Not Reported
 Insurance ID: 356
 Insurance Last: HARTFORD STEAM BOILER INSPECTION & INSURANCE
 Insurance First: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
PrV-VT	Listed	0.17 miles S	804 ft (4 ft lower than site)	16
SITE NAME			MAPS	ID
HARDWICK ENTERPRISE GROUP/VT NATURAL COATINGS			1 , 2 , 3	73151
ADDRESS			CITY	ZIP
180 JUNCTION HILL ROAD			HARDWICK	05843

DETAILS

Structure ID: 73151
 Event Name: IPINSP
 State #: 05420-
 Event Date: 1/9/2007
 Type: Pressure Vessels
 National #: 151396
 Object Type: Air Tank
 Fuel Type: Not Reported
 Inspection Cycle of the Equipment in Years: 0
 Fire Method: Not Reported
 Use Type: Process
 Status: inun
 Pounds Per Square Inch: 200
 British Thermal Unit: 0
 Expiration Date: 1/9/2010
 Owner ID: Not Reported
 Owner Last: Not Reported
 Owner First: Not Reported
 Owner Address: Not Reported
 Owner City: HARDWICK
 Manufacturer ID: 683
 Manufacturer Year: 0
 Manufacturer Last: MELBEN
 Manufacturer First: Not Reported
 Insurance ID: 15336
 Insurance Last: VT Dept. of Public Safety
 Insurance First: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Stormwater-VT	Issued	0.19 miles SE	832 ft (24 ft higher than site)	17
SITE NAME			MAPS	ID
Hardwick Industrial Park			1 , 2 , 3	6466-9015
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS

PDF Link: <https://anrweb.vt.gov/PubDocs/DEC/Stormwater/Permits/6466-9015.pdf>

Permit Number: 6466-9015

Project ID: SJ95ΓÇô0097.

Contact Name: Thomas Benoit

Permit Status: Issued

Permit Status Date: 9/13/2010

Expiration Date: 9/15/2020

Filed Local Records? (Y/N): NO

Renew Date: 7/15/2020

Operating Fee Due Date: 10/15/2017

MS4 Semi-Annual Inspection Due Date: Not Reported

Inspection Report Due Date: 6/1/2011

Restate Compliance Due Date: 9/15/2015

ESRI OID: 3118

Agency Provided Latitude: 44.513333

Agency Provided Longitude: -72.374472

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
GW-SPA-VT	Listed	0.2 miles S	N/A	A2
SITE NAME			MAPS	ID
HARDWICK TOWN WATER SYSTEM			6	51
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS

WSID: VT0005039

System Type: C

STATUS: A

Population: 1900

ZONE: ZONE 1

FACILITY: WL001,WL003

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
UST-PULLED-VT	Pulled	0.2 miles S	834 ft (26 ft higher than site)	18
SITE NAME			MAPS	ID
Former Vermont Milk Company			1 , 2 , 3	5553334-16754
ADDRESS			CITY	ZIP
85 Industrial Park Road			Hardwick	
DETAILS				
<p>Facility Information</p> <p>URL: https://anrweb.vt.gov/DEC/ERT/UST2.aspx?FacID=5553334</p> <p>Facility ID: 5553334</p> <p>Facility Status: PULLED</p> <p>Facility County: Caledonia</p> <p>Facility Phone Number: Not Reported</p> <p>Facility Type: Industrial/Commercial</p> <p>Permitted To: Not Reported</p> <p>Permit Expires: Not Reported</p> <p>Owner Name: Manosh Properties</p> <p>Owner Person: Not Reported</p> <p>Owner Address: 120 Northgate Plaza</p> <p>Owner City: Morrisville</p> <p>Owner State: VT</p> <p>Owner Zip: Not Reported</p> <p>Owner Phone Number: Not Reported</p> <p>Operator Name: Not Reported</p> <p>Operator Person: Not Reported</p> <p>Operator Address: Not Reported</p> <p>Operator City: Not Reported</p> <p>Operator State: Not Reported</p> <p>Operator Zip: Not Reported</p> <p>Operator Phone Number: Not Reported</p> <p>Land Owner: Manosh Properties</p> <p>Fee Status: Not Reported</p> <p>Receipt: Not Reported</p> <p>Tanks Pulled: 1</p> <p>More Details Link</p>				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Stormwater-VT	Issued	0.2 miles S	807 ft (1 ft lower than site)	19
SITE NAME			MAPS	ID
Hardwick Industrial Park			1 , 2 , 3	5677-9015
ADDRESS			CITY	ZIP
Not Reported by Agency				
DETAILS				
<p>PDF Link: https://anrweb.vt.gov/PubDocs/DEC/Stormwater/Permits/5677-9015.pdf</p> <p>Permit Number: 5677-9015</p> <p>Project ID: SJ95ΓÇø0097.</p> <p>Contact Name: Kevin Burke</p> <p>Permit Status: Issued</p> <p>Permit Status Date: 4/14/2008</p> <p>Expiration Date: 4/14/2018</p> <p>Filed Local Records? (Y/N): NO</p> <p>Renew Date: 2/14/2018</p> <p>Operating Fee Due Date: 5/14/2011</p> <p>MS4 Semi-Annual Inspection Due Date: Not Reported</p> <p>Inspection Report Due Date: 1/11/2008</p> <p>Restate Compliance Due Date: 4/14/2013</p> <p>ESRI OID: 2693</p> <p>Agency Provided Latitude: 44.512778</p> <p>Agency Provided Longitude: -72.376389</p>				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Stormwater-VT	Issued	0.22 miles S	826 ft (18 ft higher than site)	20
SITE NAME			MAPS	ID
Hardwick Industrial Park			1 , 2 , 3	6466-9020
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS

PDF Link: <https://anrweb.vt.gov/PubDocs/DEC/Stormwater/Permits/6466-9020.pdf>

Permit Number: 6466-9020

Project ID: SJ95ΓÇô0097.

Contact Name: Thomas Benoit

Permit Status: Issued

Permit Status Date: 8/4/2016

Expiration Date: 8/4/2018

Filed Local Records? (Y/N): NO

Renew Date: Not Reported

Operating Fee Due Date: Not Reported

MS4 Semi-Annual Inspection Due Date: Not Reported

Inspection Report Due Date: Not Reported

Restate Compliance Due Date: Not Reported

ESRI OID: 3120

Agency Provided Latitude: 44.51261

Agency Provided Longitude: -72.3753

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Stormwater-VT	Issued	0.22 miles S	826 ft (18 ft higher than site)	20
SITE NAME			MAPS	ID
Hardwick Industrial Park			1 , 2 , 3	6466-9015.1
ADDRESS			CITY	ZIP
Not Reported by Agency				

DETAILS

PDF Link: <https://anrweb.vt.gov/PubDocs/DEC/Stormwater/Permits/6466-9015.1.pdf>

Permit Number: 6466-9015.1

Project ID: SJ95ΓÇô0097.

Contact Name: Thomas Benoit

Permit Status: Issued

Permit Status Date: 7/20/2016

Expiration Date: 7/20/2021

Filed Local Records? (Y/N): UNKNOWN

Renew Date: 5/20/2021

Operating Fee Due Date: 8/20/2017

MS4 Semi-Annual Inspection Due Date: Not Reported

Inspection Report Due Date: 7/15/2017

Restate Compliance Due Date: Not Reported

ESRI OID: 3119

Agency Provided Latitude: 44.51261

Agency Provided Longitude: -72.3753

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
Hist-Service Stations	Listed	0.28 miles SE	811 ft (3 ft higher than site)	21
SITE NAME			MAPS	ID
HARDWICK KWIK STOP & DELI			1 , 3	138124
ADDRESS			CITY	ZIP
CRAFTSBURY RD & ROUTE 15			Hardwick	5843
DETAILS				
Sic Code: 5541 Desc: Service Stations/Vehicle Fueling Site Added: 2/2010				

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
LUST-Open-VT	Open	0.28 miles SE	811 ft (3 ft higher than site)	21
SITE NAME			MAPS	ID
House Of Pizza			1 , 3	941602
ADDRESS			CITY	ZIP
Route 15			Hardwick	

DETAILS

Facility Information

URL: <https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=941602>
 Site Number: 941602
 Closure Date: Not Reported
 County: Caledonia
 Priority: Site with contamination to soils or groundwater, but no effect on sensitive receptors
 DEC Staff Person: John Schmeltzer
 Land Use Restrictions: No
 Source of Contaminant: UST-Gasoline
 Contaminant: Gasoline
 Project Status: 7/16: Ongoing annual monitoring. Next sampling round scheduled for Spring 2017.
 Agency Provided Latitude: 44.5087127352161
 Agency Provided Longitude: -72.3723700344558

Additional Details

Site Use: Business
 Priority: LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors
 Site Status: Not Reported
 Institutional Control: Not Reported
 Site Closure Date: Not Reported
 DEC Contact Email Address: John.Schmeltzer@vermont.gov
 Record Last Updated: 07-08-2016
 Relationships URL: <https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=941602>
 Relationships Type: Hazsite
 Relationships ID1: 941602
 Relationships ID2: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
LUST-Open-VT	Open	0.28 miles SE	811 ft (3 ft higher than site)	21
SITE NAME			MAPS	ID
Kwikstop			1 , 3	870082
ADDRESS			CITY	ZIP
Rt 15			Hardwick	

DETAILS

Facility Information

URL: <https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=870082>
 Site Number: 870082
 Closure Date: Not Reported
 County: Caledonia
 Priority: Site with contamination to soils or groundwater, but no effect on sensitive receptors
 DEC Staff Person: --
 Land Use Restrictions: No
 Source of Contaminant: UST-Gasoline
 Contaminant: Gasoline
 Project Status: LUST. Remediation Complete, Monitoring has stopped, property is currently abandoned
 Agency Provided Latitude: 44.5122656395
 Agency Provided Longitude: -72.3733259385

Additional Details

Site Use: Retail Motor Fuel
 Priority: LOW - Site with contamination to soils or groundwater, but no effect on sensitive receptors
 Site Status: Not Reported
 Institutional Control: Not Reported
 Site Closure Date: Not Reported
 DEC Contact Email Address: Not Reported
 Record Last Updated: 06-19-2013
 Relationships URL: <https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=870082>
 Relationships Type: Hazsite
 Relationships ID1: 870082
 Relationships ID2: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
SWF-VT	LISTED	0.32 miles N	828 ft (20 ft higher than site)	22
SITE NAME			MAPS	ID
Gates Salvage Yard, Inc.			1 , 3	80150
ADDRESS			CITY	ZIP
231 Craftsbury Road			Hardwick	

DETAILS

Solid Waste Facility Information
 Note: This is an ERS assigned ID
 PSI Number: Not Reported
 Solid Waste Facility ID: CA990
 Location Confidence: Not Reported
 Facility Name: Gates Salvage Yard, Inc.
 Site Name: Not Reported
 Agency Provided Latitude: Not Reported
 Agency Provided Longitude: Not Reported
 Date First: Not Reported
 Date Last: Not Reported
 ACRES: Not Reported
 WQ Monitoring: Not Reported
 Gas Collect: Not Reported
 Contact: Joseph Rivard
 Phone: (802)472-5462
 Type of Facility: Recycling
 Year: Not Reported
 Cert Type: Full
 Waste Type: Not Reported

Additional Facility and Mailing Information
 : Not Reported

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
ClosedHazSite-VT	Closed	0.48 miles N	836 ft (28 ft higher than site)	23
SITE NAME			MAPS	ID
Gates Salvage			1 , 3	20033117
ADDRESS			CITY	ZIP
Route 14			Hardwick	

DETAILS

Hazardous Waste Site Information

URL: <https://anrweb.vt.gov/DEC/ERT/Hazsites.aspx?site=20033117>

Site Number: 20033117

Closure Date: 10/3/2006 12:00:00 AM

County: Caledonia

Priority: Site Management Activities Completed

DEC Staff Person: Richard Spiese

Land Use Restrictions: No

Source of Contamination: Batteries, Gasoline, Spill

Contamination: Gasoline, Other Metals, Other Petroleum

Project Status: PCS and lead contaminated soils. CAP to remove soils and stockpile and treat on site implemented. PCS bioreced and lead soils phytoremediated and spread on site.

Type: Not Reported

Agency Provided Longitude: -72.376149313

Agency Provided Latitude: 44.5226087846

Hazardous Waste Site Details

Site Use: Junk Yard

Site Status: Not Reported

Institutional Control: Not Reported

Site Closure Date: 10-03-2006

DEC Contact Email Address: Richard.Spiese@vermont.gov

Record Last Updated: 11-13-2006

Relationships URL: <https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=20033117>

Relationships Type: Hazsite

Relationships ID1: 20033117

Relationships ID2: Not Reported

[More Details Link](#)

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
ClosedHazSite-VT	Closed	0.95 miles SE	878 ft (70 ft higher than site)	24
SITE NAME			MAPS	ID
Sweet And Burt Bulk Facility			1 , 3	972129
ADDRESS			CITY	ZIP
Creamery St			Hardwick	

DETAILS

Hazardous Waste Site Information

URL: <https://anrweb.vt.gov/DEC/ERT/Hazsites.aspx?site=972129>

Site Number: 972129

Closure Date: 11/1/1997 12:00:00 AM

County: Lamoille

Priority: Site Management Activities Completed

DEC Staff Person: Mike Young

Land Use Restrictions: No

Source of Contamination: Not Reported

Contamination: Not Reported

Project Status: GWES met on site, Site Closed

Type: Not Reported

Agency Provided Longitude: -72.3625864143

Agency Provided Latitude: 44.506000343

Hazardous Waste Site Details

Site Use: Bulk Storage

Site Status: Not Reported

Institutional Control: Not Reported

Site Closure Date: 11-01-1997

DEC Contact Email Address: Chuck.Schwer@vermont.gov

Record Last Updated: 05-18-2007

Relationships URL: <https://anrweb.vt.gov/DEC/ERT/HazSites.aspx?site=972129>

Relationships Type: Hazsite

Relationships ID1: 972129

Relationships ID2: Not Reported

[More Details Link](#)

RECORDS SOURCES SEARCHED

ActHazSite-VT

Vermont Active Hazardous Sites

Category: State/Tribal CERCLIS Equivalent

Description: This database contains a listing of Hazardous Waste Sites. These sites are classified as still being an Active hazardous waste site. The source of contamination, restrictions, and current project status is provided.

Agency: Vermont DEC Site Management Section

Phone Number: 8022413888

Date last updated: 6/16/2017

Date last checked: 6/5/2017

Distance searched: 1 mile

Sites:

None Found

Air-VT

Air Permits

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of permitted facilities in the state of Vermont.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 11/10/2016

Date last checked: 10/31/2016

Distance searched: 0.25 miles

Sites:

None Found

AST2-VT

Aboveground Storage Tanks

Category: State/Tribal UST

Description: This database contains a listing of Aboveground Storage Tanks reported by State of Vermont, Division of Fire Safety.

Agency: State of Vermont, Division of Fire Safety

Phone Number: 8024797585

Date last updated: 6/9/2017

Date last checked: 5/17/2017

Distance searched: 0.25 miles

Sites:

None Found

AST-VT

Aboveground Storage Tanks

Category: State/Tribal UST

Description: This database contains a listing of Aboveground Storage Tanks reported by Vermont Department of Environmental Conservation. The Information contained in this database is a partial list of Aboveground Storage Tanks (AST) bulk storage facilities in Vermont. The Vermont Department of Environmental Conservation (DEC) will be working on frequent updates to this database as we move toward our goal of having a complete list of all facilities. Also, some facilities found in the AST database section, do not reflect the actual number of their current aboveground storage tanks, therefore, the correctness of the information in this database cannot be guaranteed.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 2/6/2017

Date last checked: 6/2/2017

Distance searched: 0.25 miles

Sites:

None Found

ASY-VT

Auto Salvage Yards

Category: ERS Supplemental Govt Sources

Description: This database contains auto salvage yards in vermont.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8028281138

Date last updated: 11/25/2016

Date last checked: 11/1/2016

Distance searched: 0.25 miles

Sites:

None Found

BF-Closed-VT

Brownfield Sites, Closed Cases

Category: State/Tribal Brownfield

Description: This database contains a listing of Brownfield properties that have been completed with remediation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 6/15/2017

Date last checked: 6/1/2017

Distance searched: 0.5 miles

Sites:

None Found

BF-Open-VT

Brownfield Sites, Open Cases

Category: State/Tribal Brownfield

Description: This database contains a listing of Brownfield properties that have not been completed in the remediation process.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 6/15/2017

Date last checked: 6/1/2017

Distance searched: 0.5 miles

Sites:

None Found

BF-Tribal-US

Tribal Brownfields

Category: Federal Brownfield

Description: The EPA's Brownfields Program is designed to empower states, communities, and other stakeholders in economic redevelopment to work together in a timely manner to prevent, assess, safely clean up, and sustainably reuse brownfields. A brownfield is a property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. This database contains a listing of Brownfields on Native American Land identified by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 2025662777

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.5 miles

Sites:

None Found

BF-US

Brownfields Sites

Category: Federal Brownfields

Description: Brownfields are properties that may have hazardous substances, pollutants or contaminants present. EPA's Brownfields Program provides grants and technical assistance to communities, states, tribes and others to assess, safely clean up and sustainably reuse these contaminated properties. This database contains listings of Brownfields sites listed under the "Cleanups in My Community" program maintained by EPA.

Agency: United States Environmental Protection Agency

Phone Number: 2025662777

Date last updated: 4/28/2017

Date last checked: 4/20/2017

Distance searched: 0.5 miles

Sites:

None Found

BioFuel-US

Bio Diesel Fuel

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of EPA Fuels Programs facilities.

Agency: United States Environmental Protection Agency

Phone Number: 2023439303

Date last updated: 1/13/2017

Date last checked: 1/6/2017

Distance searched: 0.25 miles

Sites:

None Found

Boilers-VT

Boilers Database

Category: ERS Supplemental Govt Sources

Description: This database contains boiler locations as reported by the Department of Public Safety, Division of Fire Safety.

Agency: Vermont Department of Public Safety

Phone Number: 8024797561

Date last updated: 2/14/2017

Date last checked: 1/26/2017

Distance searched: 0.25 miles

Sites:

140 JUNCTION ROAD - VERMONT FOOD VENTURE CENTER MapID: [9](#) Listed

HARDWICK ENTERPRISE GROUP/VT NATURAL COATINGS MapID: [16](#) Listed

CDL-US

National Clandestine Drug Lab Register

Category: ERS Supplemental Govt Sources

Description: National Clandestine Drug Lab Register. This database contains a listing of 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.

Agency: United States Drug Enforcement Administration

Phone Number: 2023071000

Date last updated: 1/16/2017

Date last checked: 1/9/2017

Distance searched: 0.063 miles

Sites:

None Found

CERCLIS-Archived-US

CERCLIS sites that have been archived

Category: Federal CERCLIS NFRAP

Description: The Superfund Enterprise Management System (SEMS). The reports produced by SEMS contain information on the assessment and remediation of current and archived hazardous waste sites. The archived designation means 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 this site on the National Priorities List (NPL), unless information indicates that this decision was not appropriate or other considerations require a recommendation for listing at a later time. Information provided to the previous CERCLIS Legacy System has been added to the details of the sites.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 5/22/2017

Date last checked: 4/28/2017

Distance searched: 0.5 miles

Sites:

None Found

CERCLIS-US

Comprehensive Environmental Response, Compensation, and Liability Information System

Category: Federal CERCLIS

Description: The Superfund Enterprise Management System (SEMS). The reports produced by SEMS contain information on the assessment and remediation of current hazardous waste sites. Information provided to the previous CERCLIS Legal System has been added to the details of the sites.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 5/22/2017

Date last checked: 4/28/2017

Distance searched: 0.5 miles

Sites:

None Found

ClosedHazSite-VT

Vermont Closed Hazardous Sites

Category: State/Tribal CERCLIS Equivalent

Description: This database contains a listing of Hazardous Waste Sites. These sites are classified as being a Closed hazardous waste site.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413888

Date last updated: 6/16/2017

Date last checked: 6/5/2017

Distance searched: 1 mile

Sites:

Gates Salvage

MapID: [23](#) Closed

Sweet And Burt Bulk Facility

MapID: [24](#) Closed

Coal-Ash-Dams-US

Coal Ash Contaminated Sites and Hazard Dams

Category: ERS Supplemental Govt Sources

Description: This database contains coal ash contaminated sites and hazard dams. Coal combustion waste sites have contaminated groundwater, wetlands, and rivers. The U.S. EPA rates coal ash ponds according to a National Inventory of Dams criteria that categorizes the ponds by the damage that would occur in the event of a dam failure. This database contains High Hazard and Significant Hazard dams.

Agency: EarthJustice

Phone Number: 8005846460

Date last updated: 5/25/2017

Date last checked: 5/25/2017

Distance searched: 0.5 miles

Sites:

None Found

Controls-RCRA-US

RCRA Institutional and Engineering Controls Summary (aka Federal RCRA with Controls)

Category: Federal Institutional/Engineering Contro

Description: The Institutional and Engineering Controls Summary provides a listing of all RCRA sites with Institutional and/or Engineering Controls in place. Institutional Controls (IC) are defined as non-engineered and/or legal controls that minimize the potential human exposure to contamination by limiting land or resource use. Whereas, Engineering Controls (EC) consist of engineering measures (e.g, caps, treatment systems, etc.) designed to minimize the potential for human exposure to contamination by either limiting direct contact with contaminated areas or controlling migration of contaminants through environmental media.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 4/28/2017

Date last checked: 4/24/2017

Distance searched: 0.5 miles

Sites:

None Found

Controls-US

US CERCLA Sites with Controls (aka US IC/EC, Institutional/Engineering List Controls, Land Use Controls)

Category: Federal Institutional/Engineering Contro

Description: Institutional controls (IC) are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Engineering Controls (EC) consist of engineering measures (e.g, caps, treatment systems, etc.) designed to minimize the potential for human exposure to contamination by either limiting direct contact with contaminated areas or controlling migration of contaminants through environmental media. This database contains listings of sites from official CERCLA decision documents with Engineering Controls and/or Institutional Controls placed on them.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 4/28/2017

Date last checked: 4/28/2017

Distance searched: 0.5 miles

Sites:

None Found

Dams-VT

List of dams

Category: ERS Supplemental Govt Sources

Description: This database contains list of dams reported by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8025220469

Date last updated: 4/1/2016

Date last checked: 3/28/2016

Distance searched: 0.25 miles

Sites:

Hardwick Lake

MapID: [11](#) Listed

Debris-US

Debris Sites

Category: Federal Solid Waste

Description: This database contains the Torres Martinez Reservation Illegal dump sites reported by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.5 miles

Sites:

None Found

Delisted-NPL-US

Delisted NPL Sites

Category: Federal Delisted NPL

Description: The Superfund Enterprise Management System (SEMS). The reports produced by SEMS contain information on the assessment and remediation of current hazardous waste sites. This database contains a listing of Delisted NPL sites. These are facilities that have been removed from the NPL list. The EPA may delete a final NPL site if it determines that no further response is required to protect human health or the environment.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 5/22/2017

Date last checked: 5/15/2017

Distance searched: 1 mile

Sites:

None Found

Drycleaners-VT

Dry Cleaner Facilities

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of dry cleaning facilities reported by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 10/17/2016

Date last checked: 9/27/2016

Distance searched: 0.25 miles

Sites:

None Found

EGRID-US

Emissions & Generation Resource Facilities

Category: ERS Supplemental Govt Sources

Description: Emissions & Generation Resource Integrated Database (eGRID) is a comprehensive source of data on the environmental characteristics of almost all electric power generated in the United States.

Agency: United States Environmental Protection Agency

Phone Number: 2023439340

Date last updated: 5/22/2017

Date last checked: 5/11/2017

Distance searched: 0.5 miles

Sites:

None Found

EPA-Watch-List-US

EPA Watch List

Category: ERS Supplemental Govt Sources

Description: This database contains facilities listed on the Clean Air Act, Clean Water Act, and RCRA Watch List. These reports are now considered archived and will no longer be updated. Being on the Watch List may not mean that the facility has actually violated the law only that an evaluation or investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. The Watch List does not identify which alleged violations of environmental laws may pose the greatest risk to public health or the environment. It is an automated report based on data from the Air Facility System

(AFS), which is used by federal, state and local agencies to track environmental enforcement and compliance information.

Agency: United States Environmental Protection Agency

Phone Number: 2025661667

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

ERNS-US

Emergency Response Notification System

Category: Federal ERNS

Description: The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database contains a listing of discharge locations.

Agency: National Response Center

Phone Number: 8004248802

Date last updated: 7/7/2017

Date last checked: 4/21/2017

Distance searched: 0.063 miles

Sites:

None Found

FA-HW-US

Financial Assurance, Hazardous Waste

Category: ERS Supplemental Govt Sources

Description: This database contains Financial Assurance facilities listed under the Hazardous Waste program as reported by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 1/9/2017

Date last checked: 12/15/2016

Distance searched: 0.063 miles

Sites:

None Found

FA-HW-VT

Financial Assurance, Hazardous Waste

Category: ERS Supplemental Govt Sources

Description: This database contains Financial Assurance facilities under the Hazardous Waste program reported by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8025220469

Date last updated: 4/6/2016

Date last checked: 4/1/2016

Distance searched: 0.063 miles

Sites:

None Found

FEMA-UST-US

FEMA Underground Storage Tanks

Category: Federal UST

Description: This database contains Federal Emergency Management Agency (FEMA) owned and operated underground storage tanks. The report was published in 2006.

Agency: United States Environmental Protection Agency

Phone Number: 7036037165

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

FRS-US

Facility Registry Index (FINDS)

Category: ERS Supplemental Govt Sources

Description: The Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest.

Agency: United States Environmental Protection Agency

Phone Number: 2022720167

Date last updated: 8/4/2017

Date last checked: 6/28/2017

Distance searched: 0.063 miles

Sites:

HARDWICK WASTEWATER TREATMENT FACILITY MapID: [4](#) Listed

FTTS-ENF-US

FIFRA/TSCA Tracking System (FTTS) Enforcement Actions

Category: Federal ASTM Other

Description: The FIFRA/TSCA Tracking System (FTTS) is a regional system used to track compliance activities such as inspections, case review, enforcement actions taken, samples collected, and pesticide grants and cooperative agreement information. The compliance monitoring and enforcement activities are tracked from the time an inspector conducts (or schedules) an inspection until the time the case is closed or the enforcement action is settled. Specific legal citations include, but are not limited to: Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Toxic Substances Control Act (TSCA), and Emergency Planning and Community Right-to-Know Act (EPCRA).

Agency: United States Environmental Protection Agency

Phone Number: 2025642501

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

FTTS-INSP-US

FIFRA/TSCA Tracking System (FTTS) Inspections

Category: ERS Supplemental Govt Sources

Description: The FIFRA/TSCA Tracking System (FTTS) is a regional system used to track compliance activities such as inspections, case review, enforcement actions taken, samples collected, and pesticide grants and cooperative agreement information. The compliance monitoring and enforcement activities are tracked from the time an inspector conducts (or schedules) an inspection until the time the case is closed or the enforcement action is settled. Specific legal citations include, but are not limited to: Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Toxic Substances Control Act (TSCA), and Emergency Planning and Community Right-to-Know Act (EPCRA).

Agency: United States Environmental Protection Agency

Phone Number: 2025642501

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

FUDS-US

Formerly Used Defense Sites

Category: ERS Supplemental Govt Sources

Description: The Department of Defense (DoD) is responsible for environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the United States and under the jurisdiction of the Secretary of Defense. Such properties are known as Formerly Used Defense Sites (FUDS). The Army is the executive agent for the program and the U.S. Army Corps of Engineers manages and directs the program's administration. The scope and magnitude of the FUDS program are significant, with more than 9,900 properties identified for potential inclusion in the program. Information about the origin and extent of contamination, land transfer issues, past and present property ownership, and program policies must be evaluated before DoD considers a property eligible for Defense Environment Restoration Account (DERA) funding under the FUDS program. Environmental cleanup procedures at FUDS are similar to those at active DoD installations.

Agency: Department of Defense

Phone Number: 2025284285

Date last updated: 1/16/2017

Date last checked: 1/9/2017

Distance searched: 1 mile

Sites:

None Found

FUSRAP-US

Formerly Utilized Sites Remedial Action Program Sites

Category: ERS Supplemental Govt Sources

Description: The Formerly Utilized Sites Remedial Action Program (FUSRAP) was initiated in 1974 to identify, investigate and clean up or control sites through the United States that had become contaminated from the nation's early atomic weapons and energy programs during the 1940s, 1950s and 1960s. Activities were performed by the Manhattan Engineer District or under the Atomic Energy Commission, prior to the Department of Energy being formed.

Agency: Department of Energy, Office of Legacy Management

Phone Number: 2025863559

Date last updated: 3/8/2017

Date last checked: 2/23/2017

Distance searched: 0.25 miles

Sites:

None Found

GW-SPA-VT

Ground Water SPA

Category: ERS Supplemental Govt Sources

Description: This GIS layer consists of the geographic location of the Source Protection Areas for active and inactive Public Community and Non-Transient Non-Community groundwater sources labeled by the Water System Identification Number (WSID) and source number (i.e. WL001 or IN002). The source locations are drawn from the State Drinking Water database (SDWIS). The water sources are wells and springs that predate regulations developed in the 1970s to new sources under review now. Source Protection Area (SPA) boundaries have been located on RF 24000 & RF 25000 scale USGS topographic maps by Water Supply Division (DEC) and VT Dept of Health (historical) personnel. Buffered SPAs are based on the point location of the water source(s). Refer to the SOURCE coverage documentation file for information on data sources used.

Agency: Dept of Environmental Conservation, Water Resource Section

Phone Number: 8025854910

Date last updated: 6/21/2017

Date last checked: 6/1/2017

Distance searched: 1 mile

Sites:

HARDWICK TOWN WATER SYSTEM

MapID: [A1](#) Listed

HARDWICK TOWN WATER SYSTEM

MapID: [A2](#) Listed

Hist-AFS2-US

Air Facility System for Clean Air Act stationary sources

Category: ERS Supplemental Govt Sources

Description: AFS contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners (automobiles and other mobile air pollution sources are tracked by a different AIRS subsystem (AMS).

Agency: United States Environmental Protection Agency

Phone Number: 2025645962

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-AFS-US

Air Facility System for Clean Air Act stationary sources

Category: ERS Supplemental Govt Sources

Description: AFS contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners (automobiles and other mobile air pollution sources are tracked by a different AIRS subsystem (AMS).

Agency: United States Environmental Protection Agency

Phone Number: 2025645962

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Agriculture

Ranches/Farms, Livestock/Agriculture

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Ranches, Farms, Livestock, and/or Agriculture.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Auto Dealers

Auto and Truck Dealers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Auto Dealers.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Auto Repair

Automotive Repair

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Auto Repair and Tire Dealers.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-CERCLIS-NFRAP-US

CERCLIS-NFRAP

Category: ERS Supplemental Govt Sources

Description: This database contains CERCLIS sites that are classified as No Further Action Remedial Action Planned as reported in 1998.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-CERCLIS-US

CERCLIS Sites

Category: ERS Supplemental Govt Sources

Description: This database contains CERCLIS sites as reported in 1998.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Chemical Manufacturing

Manufacturing and Distribution of Chemicals, Gases, and/or Solids

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Manufacturing and Distribution of Chemicals, Gases, and/or Solids.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Chemical-Storage

Chemical/Hazardous Use Storage

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes chemical storage facilities.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Cleaners

Laundry, Cleaners, and Dry Cleaning Services

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites, such as: Laundry, Cleaners, and Dry Cleaning Services.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Convenience

Convenience Store with Possible Gas

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes convenience stores with possible gas use.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Disposal-Recycle

Hazardous Disposal/Recycle and Dumps/Waste

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes hazardous disposal facilities.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Dumps-US

Dumps Inventory of 1985

Category: Federal Solid Waste

Description: This database contains Dumps as reported on the Inventory of Open Dumps from 1985. This report was published by the Office of Solid Waste, EPA.

Agency: Environmental Protection Agency

Phone Number: 2025660200

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.5 miles

Sites:

None Found

Hist-ERNS-US

Emergency Response Notification System (ERNS)

Category: ERS Supplemental Govt Sources

Description: The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of transportation. A search of the database records for the period October 1986 through January 1998 revealed information regarding reported spills of oil or hazardous substances in the stated area.

Agency: National Response Center

Phone Number: 8004248802

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-FIFRA-US

Case Administration Data from National Compliance Database (Federal Insecticide, Fungicide, and Rodenticide Act)

Category: ERS Supplemental Govt Sources

Description: This database is no longer maintained by EPA since 2006. The system tracked compliance monitoring and enforcement activities from the time an inspector conducts an inspection until the inspector closes the case or settles any resulting enforcement action(s). EPA now has the ICS database to track this information.

Agency: U.S. Environmental Protection Agency

Phone Number: 2025642501

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-FINDS-US

Facility Index System

Category: ERS Supplemental Govt Sources

Description: The Facility Index System (FINDS) is a compilation of any property or site which the EPA has investigated, reviewed or been made aware of in connection with its various regulatory programs. The data is from 1998.

Agency: United States Environmental Protection Agency

Phone Number: 2022720167

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Food-Processors

Food Processing Manufacturers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes food processors.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Gun-Ranges

Gun Ranges/Clubs

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes gun ranges/clubs.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-HWS-VT

Hazardous Waste Sites Database

Category: ERS Supplemental Govt Sources

Description: This database contains sites listed on the Hazardous Waste Sites Database/Petroleum and Non-Petroleum from 1998. The Vermont Hazardous Waste Sites Database/Petroleum and Non-Petroleum list consists of State Priority Sites. Some of these sites are Leaking Underground Storage Tank Sites.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413888

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-LUST-VT

Hazardous Waste Sites Database/Petroleum and Non-Petroleum

Category: ERS Supplemental Govt Sources

Description: This database contains leaking underground storage tanks as reported by the agency in 1998.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413888

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Machine Shop

Machine Shops, Welding, Machine Repair

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites, such as: Machine shops, welding shops and machine repair.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Manufacturing

Historic Sources US: Manufacturing

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes manufacturing sites.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Metal Plating

Metal Plating

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes metal plating sites.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Mining

Mining Operations

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Mining facilities.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

HIST-MLTS-US

Material Licensing Tracking System

Category: ERS Supplemental Govt Sources

Description: This database contains facilities listed on the Material Licensing Tracking system that possess or use radioactive materials as reported by the U.S. Nuclear Regulatory Commission. In late 2012, the agency changed from MLTS to WBL system and no longer keep track of certain information that was available in the old MLTS system.

Agency: U.S. Nuclear Regulatory Commission

Phone Number: 3014157169

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Mortuaries

Crematories/Mortuaries

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Mortuaries and Crematories.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-NPL-US

National Priority List

Category: ERS Supplemental Govt Sources

Description: This database contains NPL sites as reported in 1998.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-OGW-VT

Vermont Oil and Gas Wells

Category: ERS Supplemental Govt Sources

Description: There are no producing wells are in Vermont currently. This database lists the 6 wells that have ever been drilled.

Agency: Vermont Geological Survey

Phone Number: 8025225165

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Oil-Gas

Oil and Gas Well Related Facilities

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Oil and Gas Well related facilities.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-OilGas-Refiners

Oil/Gas Refiners/Manufacturers/Plants

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Oil and Gas Refiners and/or plants.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Other

Environmental Facilities

Category: ERS Exclusive Historic Sources

Description: City Directory data of listings that fall under the categories of Lumber, Machinery dealers, and machnists.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Paint-Stores

Paint Stores

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes paint stores.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Petroleum

Petroleum Refining/ Manufacturing/ Chemicals

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Petroleum Refining, Manufacturing, and/or processing Chemicals.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Post-Offices

Post Offices

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes post offices.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Printers

Printers and Publishers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Printers and Publishers.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430
Date last updated: Historical Database
Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

Hist-RCRIS-US

EPA's Resource Conservation and Recovery Act

Category: ERS Supplemental Govt Sources

Description: This database contains RCRA facilities as reported by the EPA in 1998. It includes, small, large, and conditionally exempt generators.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:
None Found

Hist-Recycle-VT

Recycler's List

Category: ERS Supplemental Govt Sources

Description: This database contains the Recycling Directory from 1998.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413449

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:
None Found

Hist-Rental

Rental Equipment & Yards

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes rental equipment facilities and yards.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-RV-Dealers

Trailer and Recreational Vehicle Dealers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Trailer and Recreational Vehicle Dealers.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Salvage

Vehicle Salvage Yards or Wreckers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Vehicle Salvage Yards or Wreckers.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Service Stations

Service Stations/Vehicle Fueling

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Service Stations/Vehicle Fueling Stations.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

HARDWICK KWIK STOP & DELI

MapID: [21](#) Listed

Hist-Spills-VT

Spills Database

Category: ERS Supplemental Govt Sources

Description: This database contains Spill locations as reported by the Vermont Department of Environmental Conservation in 1998.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Steel-Metals

Steel Mills/Manufacturers/Foundries/Smelters

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes steel metal manufacturers, foundries, and smelters.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-SWF-VT

Solid Waste Management Facilities

Category: ERS Supplemental Govt Sources

Description: This database contains solid waste management and disposal facilities as reported by the Vermont Department of Environmental Conservation in 1998.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413445

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Textile

Textile Mills/Manufacturers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes textile mill manufacturers.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Transportation

Transportation Facilities

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Airports and other facilities that may handle hazardous materials and petroleum products.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-TRIS-US

Toxic Release Inventory System

Category: ERS Supplemental Govt Sources

Description: This database contains facilities who report to the Toxic Release Inventory System as required by the EPA. This reporting is from 1998.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Trucking

Trucking, Shipping, Delivery, and/or Storage

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Trucking, Shipping, and/or Delivery Storage.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-US

Previously Listed Federal Sites

Category: ERS Supplemental Govt Sources

Description: ERS has compiled records that have been previously listed in other agency databases. When ERS updates an agency database, if there is a record that was in the older version but the record is not found in the newer version, it is put into this database. The site may have been completely removed, or there was a significant change in the record such as Name, ID, or Address. The information from the old listing is preserved in this database along with which database it was originally in. It is also possible that it was moved from one database to another such as a LUST Open site receiving closure and now being listed in the LUST Closed database.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-US-EC

Historic Engineering Controls Sites (aka US EC, Engineering Controls, Land Use Controls)

Category: Federal Institutional/Engineering Controls

Description: Engineering Controls (EC) consist of engineering measures (e.g, caps, treatment systems, etc.) designed to minimize the potential for human exposure to contamination by either limiting direct contact with contaminated areas or controlling migration of contaminants through environmental media. This database contains listings of sites with Engineering Controls placed on them. This data was obtained from a historical source located on the EPA's website. It is no longer available or updated.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.5 miles

Sites:

None Found

Hist-US-IC

Sites with Institutional Controls (aka US IC, Institutional Controls, Land Use Controls)

Category: Federal Institutional/Engineering Contro

Description: Institutional controls (IC) are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. This database contains listings of sites with Institutional Controls placed on them. This data was obtained from a historical source located on the EPA's website. It is no longer available or updated.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.5 miles

Sites:

None Found

Hist-UST-VT

Underground Storage Tank Management Database

Category: ERS Supplemental Govt Sources

Description: This database contains underground storage tanks as reported by the agency in 1998.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413888

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Vehicle-Parts

Vehicle Parts

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes Vehicle Parts Dealers.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Vehicle-Washing

Vehicle/Truck Washing Facilities

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes vehicle washing facilities.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-VT

Previously Listed Vermont Sites

Category: ERS Supplemental Govt Sources

Description: ERS has compiled records that have been previously listed in other agency databases. When ERS updates an agency database, if there is a record that was in the older version but the record is not found in the newer version, it is put into this database. The site may have been completely removed, or there was a significant change in the record such as Name, ID, or Address. The information from the old listing is preserved in this database along with which database it was originally in. It is also possible that it was moved from one database to another such as a LUST Open site receiving closure and now being listed in the LUST Closed database.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

Hardwick Wastewater Treatment Plant

MapID: [4](#) No Longer Listed

Hardwick Wastewater Treatment Plant

MapID: [4](#) No Longer Listed

Hist-WaterWells-US

Public Community Water Supply/Well Head Protection Database

Category: ERS Supplemental Govt Sources

Description: This database contains the public community water supply wells as reported by the Geological Survey in 1998.

Agency: Geological Survey

Phone Number: 6092921185

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-WaterWells-VT

Public Water Well Location Info

Category: ERS Supplemental Govt Sources

Description: This database includes state water wells for the state as reported in 1998 by the Vermont Center for GIS.

Agency: Vermont
Center for GIS

Phone Number: 8022413406

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:
None Found

HMIS-US

Hazardous Materials Information System

Category: Federal Emergency Release Reports

Description: Data includes spills, releases, or other incidents involving hazardous materials in commerce during the course of transportation. All modes of transportation are included except pipeline and bulk marine transportation. Data represent a census of all incidents reportable to the U.S. Department of Transportation This database contains a listing of spills. (DOT). U.S. federal regulations require all spills meeting the following criteria to be reported, in writing, to DOT's Office of Hazardous Materials Safety.

Agency: US Department of Transportation Pipeline and Hazardous Materials Safety Administration

Phone Number: 2023664433

Date last updated: 5/26/2017

Date last checked: 4/21/2017

Distance searched: 0.063 miles

Sites:
None Found

HWG-VT

Hazardous Waste Generators

Category: State/Tribal RCRA Equivalent

Description: This database contains hazardous waste generators reported by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8025220469

Date last updated: 6/15/2017

Date last checked: 6/1/2017

Distance searched: 0.25 miles

Sites:
LAMOILLE VALLEY FORD INC

MapID: [8](#) Listed

ICIS-Air-US

Integrated Compliance Information System for Air

Category: ERS Supplemental Govt Sources

Description: The Integrated Compliance Information System for Air (ICIS-Air) data exchange allows all State, Local, and Tribal Air agencies providing air stationary source enforcement and compliance data to submit their data to EPA via the Exchange Network.

Agency: United States Environmental Protection Agency

Phone Number: 2025645962

Date last updated: 2/3/2017

Date last checked: 12/20/2016

Distance searched: 0.063 miles

Sites:

None Found

ICIS-FEC-US

Integrated Compliance Information System for Federal Enforcement Data

Category: ERS Supplemental Govt Sources

Description: The Integrated Compliance Information System (ICIS) tracks all formal administrative and judicial enforcement actions taken by the U.S. EPA and is used as the system of record to provide official enforcement data.

Agency: United States Environmental Protection Agency

Phone Number: 2025646962

Date last updated: 2/3/2017

Date last checked: 1/17/2017

Distance searched: 0.063 miles

Sites:

None Found

ICIS-NPDES-US

National Pollutant Discharge Elimination System (NPDES)

Category: ERS Supplemental Govt Sources

Description: The National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database contains a listing of permit holders.

Agency: United States Environmental Protection Agency

Phone Number: 2022720167

Date last updated: 5/5/2016

Date last checked: 4/7/2016

Distance searched: 0.063 miles

Sites:

HARDWICK

MapID: [4](#) Listed

IC-VT**Institutional Controls Sites****Category:** State/Tribal Inst/Eng Controls**Description:** This database identifies sites that have Institutional Controls reported by the Vermont Department of Environmental Conservation.**Agency:** Vermont Department of Environmental Conservation**Phone Number:** 6057733296**Date last updated:** 6/16/2017**Date last checked:** 6/5/2017**Distance searched:** 0.5 miles**Sites:**

None Found

LAST-Closed-VT**Leaking Aboveground Storage Tanks****Category:** State/Tribal LUST**Description:** This database contains a listing of leaking aboveground storage tanks reported by the Vermont Department of Environmental Conservation.**Agency:** Vermont Department of Environmental Conservation**Phone Number:** 8022413888**Date last updated:** 6/16/2017**Date last checked:** 6/5/2017**Distance searched:** 0.5 miles**Sites:**

None Found

LAST-Open-VT**Leaking Aboveground Storage Tanks****Category:** State/Tribal LUST**Description:** This database contains a listing of leaking aboveground storage tanks reported by the Vermont Department of Environmental Conservation.**Agency:** Vermont Department of Environmental Conservation**Phone Number:** 8022413888**Date last updated:** 6/16/2017**Date last checked:** 6/5/2017**Distance searched:** 0.5 miles**Sites:**

None Found

Lead-Smelter-2-US**Lead Smelter Sites****Category:** ERS Supplemental Govt Sources

Description: This database contains 464 sites that were reported as potential lead smelters sites in research conducted by the EPA Superfund Program and other sources. The sites are listed on the 2007 published report by the EPA Superfund Program.

Agency: United States Environmental Protection Agency

Phone Number: 7034129810

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Lead-US

Lead Smelter Sites

Category: ERS Supplemental Govt Sources

Description: This database contains lead smelter sites reported by the Environmental Protection Agency. This database is provided by the Superfund Enterprise Management System (SEMS).

Agency: United States Environmental Protection Agency

Phone Number: 2025645962

Date last updated: 1/13/2017

Date last checked: 1/10/2017

Distance searched: 0.25 miles

Sites:

None Found

LIENS-US

Superfund Liens

Category: Federal Institutional/Engineering Contro

Description: Section 107(f) of the Superfund Amendments and Reauthorization Act of 1986 (SARA), adds a new section 107(l) to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), which provides for the establishment of a federal lien in favor of the United States upon property which is the subject of a removal or remedial action. This database contains sites that have had Federal Liens filed on them as reported by the EPA.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 7/28/2017

Date last checked: 7/13/2017

Distance searched: 0.063 miles

Sites:

None Found

LMOP-US

Landfill Methane Outreach Program

Category: ERS Supplemental Govt Sources

Description: The U.S. Environmental Protection Agency's Landfill Methane Outreach Program (LMOP) is a voluntary assistance program that helps to reduce methane emissions from landfills by encouraging the recovery and beneficial use of landfill gas (LFG) as a renewable energy resource.

Agency: Environmental Protection Agency

Phone Number: 2025647873

Date last updated: 8/12/2016

Date last checked: 7/19/2016

Distance searched: 0.5 miles

Sites:

None Found

LUST-Closed-VT

Leaking Underground Storage Tanks

Category: State/Tribal LUST

Description: This database contains a listing of leaking underground storage tanks reported by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413888

Date last updated: 6/16/2017

Date last checked: 6/5/2017

Distance searched: 0.5 miles

Sites:

Hardwick Wastewater Treatment Plant

MapID: [7](#) Closed

LUST-Open-VT

Leaking Underground Storage Tanks

Category: State/Tribal LUST

Description: This database contains a listing of leaking underground storage tanks reported by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413888

Date last updated: 6/16/2017

Date last checked: 6/5/2017

Distance searched: 0.5 miles

Sites:

Hardwick Motors Inc

MapID: [1](#) Open

House Of Pizza

MapID: [21](#) Open

Kwikstop

MapID: [21](#) Open

Manifest2-CT

Hazardous Waste Manifest

Category: State/Tribal RCRA Equivalent

Description: The Connecticut Department of Energy and Environmental Protection, Hazardous Waste Manifest System lists sites from all over the country, not just Connecticut. To be thorough, ERS has searched the data subset that may include listings on or near the subject site that are listed in the Connecticut Department of Energy and Environmental Protection, Hazardous Waste Manifest System.

Agency: Connecticut Department of Energy and Environmental Protection

Phone Number: 8604243000

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Manifest2-RI

Hazardous Waste Manifest

Category: State/Tribal RCRA Equivalent

Description: The Rhode Island Department of Environmental Management, Hazardous Waste Manifest System lists sites from all over the country, not just Rhode Island. To be thorough, ERS has searched the data subset that includes listings on or near the subject site that are listed in the Rhode Island Department of Environmental Management, Hazardous Waste Manifest System.

Agency: Rhode Island Department of Environmental Management

Phone Number: 4012222797

Date last updated: 12/23/2016

Date last checked: 12/23/2016

Distance searched: 0.063 miles

Sites:

None Found

Manifest-VT

Vermont Manifest

Category: State/Tribal RCRA Equivalent

Description: This database contains the hazardous manifest system reported by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation.

Phone Number: 8025220469

Date last updated: 6/5/2017

Date last checked: 5/3/2017

Distance searched: 0.063 miles

Sites:

None Found

Military-Bases-US

Military Base Boundaries

Category: ERS Supplemental Govt Sources

Description: United States Military Installations is a polygon theme representing the boundaries and location information for important military installations in the United States and Puerto Rico. The database includes records for 405 military installations.

Agency: Research and Innovative Technology Administration's Bureau of Transportation Statistics

Phone Number: 2023663828

Date last updated: 8/9/2016

Date last checked: 7/22/2016

Distance searched: 1 mile

Sites:

None Found

MINES-US

Mines Master Index File

Category: ERS Supplemental Govt Sources

Description: The Master Index file contains mine identification numbers issued for mines active or opened since 1971.

Agency: United States Department of Labor

Phone Number: 8777786055

Date last updated: 2/3/2017

Date last checked: 1/9/2017

Distance searched: 0.063 miles

Sites:

None Found

MLTS-US

Material Licensing Tracking System

Category: ERS Supplemental Govt Sources

Description: This database contains facilities listed on the Material Licensing Tracking system that possess or use radioactive materials as reported by the U.S. Nuclear Regulatory Commission.

Agency: U.S. Nuclear Regulatory Commission

Phone Number: 3014157169

Date last updated: 3/2/2017

Date last checked: 3/2/2017

Distance searched: 0.063 miles

Sites:

None Found

MRDS-US

Mineral Resources Data System (MRDS)

Category: ERS Supplemental Govt Sources

Description: MRDS is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references.

Agency: U.S. Geologic Survey

Phone Number: 8882758747
Date last updated: 4/28/2016
Date last checked: 2/26/2016
Distance searched: 0.25 miles

Sites:

Al Anair and Sons Pit
Al Anair and Sons Pit

MapID: [2](#) Listed
MapID: [3](#) Listed

NPDES-VT

National Pollutant Discharge Elimination System (NPDES)

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of National Pollutant Discharge Elimination System (NPDES) permit program facilities reported by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation.

Phone Number: 8024906106

Date last updated: 7/6/2016

Date last checked: 7/1/2016

Distance searched: 0.063 miles

Sites:

Hardwick

MapID: [6](#) Listed

NPL-R1-US

NPL Region 1 Site Boundaries

Category: Federal NPL

Description: This database contains the boundaries of the NPL sites within the specified EPA region.

Agency: Environmental Protection Agency

Phone Number: 6179181111

Date last updated: 7/13/2017

Date last checked: 7/13/2017

Distance searched: 1 mile

Sites:

None Found

NPL-US

National Priorities List

Category: Federal NPL

Description: The National Priorities List is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide the EPA in determining which sites warrant further investigation. This database contains a listing of NPL sites.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 5/22/2017

Date last checked: 5/15/2017

Distance searched: 1 mile

Sites:

None Found

PADS-US

PCB Registration Database System

Category: Federal ASTM Other

Description: This database contains a listing of generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Agency: United States Environmental Protection Agency

Phone Number: 2025660500

Date last updated: 5/4/2017

Date last checked: 4/25/2017

Distance searched: 0.063 miles

Sites:

None Found

PCB-US

PCB Transformers

Category: Federal ASTM Other

Description: PCB Transformer Registration Database. This database indicates the best known current status of registered PCB transformers

Agency: United States Environmental Protection Agency

Phone Number: 7033088404

Date last updated: 4/25/2017

Date last checked: 4/25/2017

Distance searched: 0.25 miles

Sites:

None Found

PCS-US

Permit Compliance System for Clean Water Act

Category: ERS Supplemental Govt Sources

Description: PCS is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act. PCS is designed to support the NPDES program at the state, regional, and national levels.

Agency: United States Environmental Protection Agency

Phone Number: 2025640221

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:
HARDWICK W W T F

MapID: [5](#) Listed

Proposed-NPL-US

Proposed NPL Sites

Category: Federal NPL

Description: The EPA provides information on the assessment and remediation of current hazardous waste sites. The site in this database have been proposed for the NPL list.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 4/28/2017

Date last checked: 4/28/2017

Distance searched: 1 mile

Sites:
None Found

PrV-VT

Pressure Vessels

Category: ERS Supplemental Govt Sources

Description: This database contains pressure vessels locations. Pressure Vessels can include boilers but are often containers of gases under high pressure, such as propane.

Agency: Vermont Department of Public Safety

Phone Number: 8024797561

Date last updated: 3/8/2017

Date last checked: 2/1/2017

Distance searched: 0.25 miles

Sites:
HARDWICK ENTERPRISE GROUP/VT NATURAL COATINGS MapID: [16](#) Listed

RADINFO-US

Radiation Information Database

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of facilities that are regulated by the US EPA regulations for radiation and radioactivity.

Agency: United States Environmental Protection Agency

Phone Number: 2023439775

Date last updated: 5/11/2017

Date last checked: 5/11/2017

Distance searched: 0.063 miles

Sites:
None Found

RCRA-CESQG-US**Resource Conservation and Recovery Act, Conditionally Exempt Small Quantity Generators (aka RCRA CESQG)****Category:** Federal RCRA Generators**Description:** The Resource Conservation and Recovery Act (RCRA) is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The law provides explicit, legally enforceable requirements for waste management. These regulations can be found in title 40 of the Code of Federal Regulations (CFR), parts 239 through 282. This database contains listings of Conditionally Exempt Small Quantity Generators.**Agency:** United States Environmental Protection Agency**Phone Number:** 8004249346**Date last updated:** 6/23/2017**Date last checked:** 6/13/2017**Distance searched:** 0.25 miles**Sites:**

LAMOILLE VALLEY FORD INC

MapID: [8](#) Listed**RCRA-COR-US****Resource Conservation and Recovery Act, - Corrective Actions (aka RCRA CORRACTS)****Category:** Federal RCRA CORRACTS**Description:** The Resource Conservation and Recovery Act (RCRA) is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The law provides explicit, legally enforceable requirements for waste management. These regulations can be found in title 40 of the Code of Federal Regulations (CFR), parts 239 through 282. Under a program entitled Corrective Action, the EPA has the statutory authority to require permitted and interim status facilities to clean up hazardous waste contamination. This database contains listings of sites that have had corrective action.**Agency:** United States Environmental Protection Agency**Phone Number:** 8004249346**Date last updated:** 6/23/2017**Date last checked:** 6/13/2017**Distance searched:** 1 mile**Sites:**

None Found

RCRA-LQG-US**Resource Conservation and Recovery Act, Large Quantity Generators (aka RCRA LQG)****Category:** Federal RCRA Generators**Description:** The Resource Conservation and Recovery Act (RCRA) is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The law provides explicit, legally enforceable requirements for waste management. These regulations can be found in title 40 of the Code of Federal Regulations (CFR), parts 239 through 282. Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste. This database contains listings of Large Quantity Generators.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 6/23/2017

Date last checked: 6/13/2017

Distance searched: 0.25 miles

Sites:

None Found

RCRA-NON-US

Resource Conservation and Recovery Act, Non-Hazardous Generators (aka RCRA Non-Haz, RCRA NonGen, RCRA No longer Regulated)

Category: Federal RCRA Generators

Description: The Resource Conservation and Recovery Act (RCRA) is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The law provides explicit, legally enforceable requirements for waste management. These regulations can be found in title 40 of the Code of Federal Regulations (CFR), parts 239 through 282. Title 40 of the CFR parts 239 through 259 contain the regulations for non-hazardous solid waste. This database contains listings of RCRA non-hazardous hazardous solid waste generators.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 6/23/2017

Date last checked: 6/13/2017

Distance searched: 0.25 miles

Sites:

ROWELLS BODY SHOP

MapID: [13](#) Listed

KINGDOM METAL FINISHING

MapID: [15](#) Listed

RCRA-SQG-US

Resource Conservation and Recovery Act, Small Quantity Generators (aka RCRA SQG)

Category: Federal RCRA Generators

Description: The Resource Conservation and Recovery Act (RCRA) is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The law provides explicit, legally enforceable requirements for waste management. These regulations can be found in title 40 of the Code of Federal Regulations (CFR), parts 239 through 282. Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month. This database contains listings of Small Quantity Generators.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 6/23/2017

Date last checked: 6/13/2017

Distance searched: 0.25 miles

Sites:

None Found

RCRA-TSDF-US

Resource Conservation and Recovery Act -, Treatment, Storage, and Disposal Facilities (aka RCRA TSD, RCRA TSDF)

Category: Federal RCRA non-CORRACTS TSD

Description: The Resource Conservation and Recovery Act (RCRA) is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste. The law provides explicit, legally enforceable requirements for waste management. These regulations can be found in title 40 of the Code of Federal Regulations (CFR), parts 239 through 282. Treatment, Storage, and Disposal Facilities (TSDFs) are subject to recordkeeping and reporting requirements, permitting, and technical standards covering the treatment, storage, disposal location, construction, and operation of TSDFs as set forth in 40 CFR Parts 264 and 265. This database contains listings of Treatment, Storage, and Disposal.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 6/23/2017

Date last checked: 6/13/2017

Distance searched: 0.5 miles

Sites:

None Found

RedTag-VT

Red Tagged Facilities

Category: State/Tribal UST

Description: This database contains tank systems that have been red tagged due to failure by the facility owner/operator to correct operational deficiencies.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 6/15/2017

Date last checked: 6/1/2017

Distance searched: 0.25 miles

Sites:

None Found

RFG-Lab-US

Reformulated Gasoline (RFG)

Category: ERS Supplemental Govt Sources

Description: This database includes the list of registered Reformulated Gasoline Laboratories.

Agency: Environmental Protection Agency, United States

Phone Number: 2023439303

Date last updated: 1/13/2017

Date last checked: 1/6/2017

Distance searched: 0.25 miles

Sites:

None Found

RMP-US

Risk Management Plans

Category: ERS Supplemental Govt Sources

Description: This database contains facilities that have developed risk management plans as reported by the Environmental Protection Agency. The System for Risk Management Plans (SRMP) is a suite of electronic systems containing information relating to risk management plans submitted by facilities in accordance with the Clean Air Act, Section 112(r). Affected facilities are to develop risk management programs which will prevent and minimize consequences of accidental releases of certain hazardous chemicals that could harm public health and the environment.

Agency: United States Environmental Protection Agency

Phone Number: 2025642491

Date last updated: 7/28/2017

Date last checked: 6/21/2017

Distance searched: 0.063 miles

Sites:

None Found

ROD-US

Records of Decision

Category: ERS Supplemental Govt Sources

Description: The Record of Decision (ROD) is a public document that explains which cleanup alternatives will be used to clean up a Superfund site. The ROD for sites listed on the NPL (NPL Site Listing Process) is created from information generated during the Remedial Investigation/Feasibility Study (RI/FS). A ROD contains site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, scope and role of response action and the remedy selected for cleanup. This database contains a listing of sites with RODs.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 4/28/2017

Date last checked: 4/20/2017

Distance searched: 0.5 miles

Sites:

None Found

SAA-Agreements-US

Sites with Superfund Alternative Approach Agreements

Category: Federal ASTM Other

Description: This database contains sites that have a Superfund Alternative agreement. The Superfund alternative (SA) approach uses the same investigation and cleanup process and standards that are used for sites listed on the NPL. The SA approach is an alternative to listing a site on the NPL; it is not an alternative to Superfund or the Superfund process.

Agency: United States Environmental Protection Agency

Phone Number: 2025645110

Date last updated: 4/28/2017

Date last checked: 4/20/2017

Distance searched: 1 mile

Sites:

None Found

SDWIS-US

Safe Drinking Water Information System

Category: ERS Supplemental Govt Sources

Description: This database contains the Safe Drinking Water Information including Public Water, Source and Treatment, Enforcements and Violations reported by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 6/20/2016

Date last checked: 6/26/2017

Distance searched: 0.25 miles

Sites:

None Found

Spills-Closed-VT

Spill Sites, Closed Cases

Category: Emergency Release Reports

Description: The DEC Spill Response Team assesses the environmental impact of hazardous materials spills, oversees the cleanup of spills, and enforces environmental regulations triggered by spills.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 6/16/2017

Date last checked: 6/1/2017

Distance searched: 0.063 miles

Sites:

None Found

Spills-Open-VT

Spill Sites, Open Cases

Category: Emergency Release Reports

Description: The DEC Spill Response Team assesses the environmental impact of hazardous materials spills, oversees the cleanup of spills, and enforces environmental regulations triggered by spills.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 6/16/2017

Date last checked: 6/1/2017

Distance searched: 0.063 miles

Sites:

None Found

SSTS-US

Section 7 Tracking System

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of EPA-registered domestic pesticide-producing and device producing establishments and the pesticides produced based on data in the Section Seven Tracking System.

Agency: United States Environmental Protection Agency

Phone Number: 2025644203

Date last updated: 7/28/2017

Date last checked: 6/26/2017

Distance searched: 0.063 miles

Sites:

None Found

Stormwater-VT

Stormwater Permits

Category: ERS Supplemental Govt Sources

Description: This database contains issued and pending stormwater permits.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8028281535

Date last updated: 6/16/2017

Date last checked: 6/8/2017

Distance searched: 0.25 miles

Sites:

Hardwick Industrial Park

MapID: [10](#) Issued

Timber Resource Group Hardwick Log Yard

MapID: [14](#) Issued

Hardwick Industrial Park

MapID: [17](#) Issued

Hardwick Industrial Park

MapID: [19](#) Issued

Hardwick Industrial Park

MapID: [20](#) Issued

Hardwick Industrial Park

MapID: [20](#) Issued

SWF-VT

Solid Waste Facilities

Category: State/Tribal Landfill/Solid Waste

Description: This database contains closed and operating solid waste facilities regulated by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8025220195

Date last updated: 7/19/2017

Date last checked: 5/15/2017

Distance searched: 0.5 miles

Sites:

Gates Salvage Yard, Inc.

MapID: [22](#) LISTED

SWLF-US

Solid Waste Facilities

Category: Federal Solid Waste

Description: This dataset represents verified locations of ACTIVE permitted Municipal Solid Waste facilities as well as ACTIVE permitted Construction and Demolition waste facilities. It is not intended to be a comprehensive inventory of all permitted solid waste facilities. Specifically excluded from this collection are facilities that accept hazardous waste, industrial waste facilities, waste collection/transfer sites and other specialty waste facilities.

Agency: Oak Ridge National Laboratory, GIST

Phone Number: 8652413976

Date last updated: 4/20/2017

Date last checked: 4/20/2017

Distance searched: 0.5 miles

Sites:

None Found

SW-SPA-VT

SurfaceWater Source Protection Areas (SPAs)

Category: ERS Supplemental Govt Sources

Description: This GIS layer consists of the geographic location of the Source Protection Areas for active and inactive Public Community and Non-Transient Non-Community for surface water intakes labeled by the Water System Identification Number (WSID) and source number (i.e. WL001 or IN002). The SPA generally consists of a buffer around the upstream river and tributaries and watershed boundary. The source locations are drawn from the State Drinking Water database (SDWIS). The water sources are surface water intakes on lakes or rivers that predate regulations developed in the 1970s to new sources under review now.

Agency: Dept of Environmental Conservation, Water Resource Section

Phone Number: 8025854910

Date last updated: 6/21/2017

Date last checked: 6/1/2017

Distance searched: 1 mile

Sites:

None Found

Tank-Unk-VT

Storage Tanks

Category: State/Tribal UST

Description: This database contains a listing of Storage Tanks reported by State of Vermont, Division of Fire Safety. The tanks do not have a classification of a AST or UST.

Agency: State of Vermont, Division of Fire Safety

Phone Number: 8024797585

Date last updated: 6/9/2017

Date last checked: 5/17/2017

Distance searched: 0.25 miles

Sites:

77 LOGGING ROAD - BOURNES ENERGY

MapID: [12](#) Listed

Tribal-Air-US

Tribal Air Permitted Facilities

Category: ERS Supplemental Govt Sources

Description: This database contains tribal locations that have been issued air permits as reported by the US Environmental Protection Agency. At this time the database includes region 2, 5, 7, 8, 9, 10.

Agency: United States Environmental Protection Agency

Phone Number: 3123532000

Date last updated: 4/21/2017

Date last checked: 3/20/2017

Distance searched: 0.25 miles

Sites:

None Found

Tribal-LUST-Reg1

Tribal Leaking Underground Storage Tanks

Category: Federal LUST

Description: This database contains a listing of Leaking Underground Storage Tanks on Native American Land identified by the United States Environmental Protection Agency in Region 1.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 8/26/2016

Date last checked: 8/26/2016

Distance searched: 0.5 miles

Sites:

None Found

Tribal-ODI-US

Tribal Open Dump Sites

Category: Federal Solid Waste

Description: This database contains a listing of Open Dump Sites on Native American Land identified by the Indian Health Service

Agency: Indian Health Service

Phone Number: 3014431046

Date last updated: 4/20/2017

Date last checked: 4/20/2017

Distance searched: 0.5 miles

Sites:

None Found

Tribal-UST-Reg1

Tribal Underground Storage Tanks

Category: Federal UST

Description: This database contains a listing of Underground Storage Tanks on Native American Land identified by the United States Environmental Protection Agency in Region 1.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 12/28/2016

Date last checked: 12/28/2016

Distance searched: 0.25 miles

Sites:

None Found

Tribal-VCP-US

Tribal VCP

Category: Federal Tribal VCP

Description: This database contains voluntary cleanup sites located in tribal land as reported by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 4/5/2017

Date last checked: 4/5/2017

Distance searched: 0.5 miles

Sites:

None Found

TRIS2000-US

Toxics Release Inventory System

Category: ERS Supplemental Govt Sources

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 2000-2009.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

TRIS2010-US

Toxics Release Inventory System

Category: ERS Supplemental Govt Sources

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 2010-2014. 2014 is currently the most recent year available in the TRI.NET program.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 1/27/2017

Date last checked: 1/10/2017

Distance searched: 0.063 miles

Sites:

None Found

TRIS80-US

Toxics Release Inventory System

Category: ERS Supplemental Govt Sources

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 1987-1989.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

TRIS90-US

Toxics Release Inventory System

Category: ERS Supplemental Govt Sources

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 1990-1999.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

TSCA-US

Toxics Substance Control Sites

Category: ERS Supplemental Govt Sources

Description: TSCA addresses the production, importation, use, and disposal of specific chemicals including polychlorinated biphenyls (PCBs), asbestos, radon and lead-based paint. This database contains a listing of these facilities.

Agency: United States Environmental Protection Agency

Phone Number: 2025642501

Date last updated: 4/27/2017

Date last checked: 4/27/2017

Distance searched: 0.063 miles

Sites:

None Found

UIC-VT

Underground Injection Control Wells

Category: ERS Supplemental Govt Sources

Description: This database contains Underground Injection Control Wells regulated by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8025854913

Date last updated: 6/16/2017

Date last checked: 6/7/2017

Distance searched: 0.063 miles

Sites:

None Found

UMTRA-US

Uranium Mill Tailings Remedial Action Sites

Category: ERS Supplemental Govt Sources

Description: The Uranium Mill Tailings Radiation Control Act (UMTRCA) of 1978 gave the U.S. Department of Energy (DOE) the responsibility of stabilizing, disposing, and controlling uranium mill tailings and other contaminated material at twenty-four uranium mill processing sites located across ten states and at approximately 5,200 associated properties.

Agency: Department of Energy

Phone Number: 5058450011

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

USGS-Waterwells-US

Ground Water Site Inventory

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of wells, springs, test holes, tunnels, drains, and excavations reported by the United States Geological Survey, Water Resources Program.

Agency: United States Geological Survey, Water Resources Program

Phone Number: 9162783000

Date last updated: 2/10/2017

Date last checked: 1/17/2017

Distance searched: 0.063 miles

Sites:

None Found

UST2-VT

Underground Storage Tanks

Category: State/Tribal UST

Description: This database contains a listing of Underground Storage Tanks reported by State of Vermont, Division of Fire Safety.

Agency: State of Vermont, Division of Fire Safety

Phone Number: 8024797585

Date last updated: 6/9/2017

Date last checked: 5/17/2017

Distance searched: 0.25 miles

Sites:

LAMOILLE VALLEY FORD detail shop

MapID: [8](#) Listed

UST-Insp-VT

UST Inspected Tanks

Category: State/Tribal UST

Description: This database contains UST facilities that will be inspected during the 2014 year.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 6/15/2017

Date last checked: 6/2/2017

Distance searched: 0.25 miles

Sites:

None Found

UST-PULLED-VT

Pulled Underground Storage Tanks

Category: State/Tribal UST

Description: This database contains a listing Pulled Underground Storage Tanks identified by the Vermont Department of Environmental Conservation.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 6/15/2017

Date last checked: 6/1/2017

Distance searched: 0.25 miles

Sites:

Former Vermont Milk Company

MapID: [18](#) Pulled

UST-VT

Underground Storage Tanks

Category: State/Tribal UST

Description: This database contains a listing of active Underground Storage Tanks.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8022413891

Date last updated: 6/15/2017

Date last checked: 6/1/2017

Distance searched: 0.25 miles

Sites:

Hardwick Wastewater Treatment Plant

MapID: [4](#) Listed

Vapor-Intrusions-US

Vapor Intrusion Database

Category: ERS Supplemental Govt Sources

Description: This database contains the vapor intrusion database as reported by the Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 7033057411

Date last updated: 8/17/2016

Date last checked: 12/19/2016

Distance searched: 0.5 miles

Sites:

None Found

Wells-VT

Private Wells

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of Vermont Private Wells.

Agency: Vermont Department of Environmental Conservation

Phone Number: 8028281535

Date last updated: 4/5/2016

Date last checked: 3/28/2016

Distance searched: 0.063 miles

Sites:

None Found

UN-MAPPABLE OCCURRENCES

The following occurrences were not mapped primarily due to incomplete or inaccurate address information. All of the following occurrences were determined to share the same zip code as the area searched. General status information is given with each occurrence along with any address information entered by the agency responsible for the list.

ID	Facility Name	Address	Database	Status
No "un-mapped" sites requested.				

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ADDITIONAL DOCUMENTS

A P P E N D I X D

Mainfest Report Generator

Enter the start and end date ranges and click [Run Report]

VT5000001230

Start Date (MM/DD/YY):

01/01/1980

End Date (MM/DD/YY):

09/21/17

Run Report

Manifest Info for waste shipped between: 01/01/1980 and 09/21/17

Generator ID: VT5000001230

THE BIG YELLOW BARN INC

281 VT RTE 15 W

HARDWICK, VT 06374

Manifest #: CTF0455834

Shipped: 2/8/1996

A

To: SAFETY KLEEN SYSTEMS CORP

Material: PAINT RELATED MATERIAL

Received: 2/13/1996

Quantity: 36P

Manifest #: CTF0524691

Shipped: 6/4/1996

A

To: SAFETY KLEEN SYSTEMS CORP

Material: PAINT RELATED MATERIAL

Received: 6/11/1996

Quantity: 36P

B

Material: PAINT RELATED MATERIAL

Quantity: 108P

Manifest #: VT2122539

Shipped: 11/18/1999

A

To: SAFETY-KLEEN SYSTEMS, INC.

Material: OILY SORBS

Received: 12/2/1999

Quantity: 166P

Manifest #: VT2122419

Shipped: 1/17/2002

A

To: SAFETY-KLEEN SYSTEMS, INC.

Material: WASTE OIL AND ABSORBANT MIXTURE

Received: 1/25/2002

Quantity: 163P

Manifest #: VT2187549

Shipped: 11/7/2005

A

To: SAFETY-KLEEN SYSTEMS, INC.

Material: WASTE OIL AND ABSORBENT MIXTURE

Received: 12/3/2005

Quantity: 100P

Manifest #: 005555208SKS

Shipped: 6/21/2017

1

To: SAFETY-KLEEN SYSTEMS, INC.

Material: NA3082 HAZARDOUS WASTE LIQUID NOS LEAD CHROMIUM

Received: 6/26/2017

Quantity: 600P

[Close Window](#)



January 10, 2017

Mr. Bill Richardson
Lamoille Valley Ford, Inc.
P.O. Box 308
Hardwick, VT05843

589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495

www.kas-consulting.com

802 383.0486 p

802 383.0490 f

RE: October 2016 Groundwater Monitoring Report, Lamoille Valley Ford
(former Hardwick Motors), Hardwick, VT; SMS Site #96-2092

Dear Mr. Richardson,

Enclosed please find the above referenced report. Based upon the continuing presence of petroleum impacts at levels exceeding the VGES in MW-1, KAS recommends that groundwater monitoring continues on an annual basis to confirm groundwater flow direction and dissolved petroleum concentrations. However, KAS has recommended dropping wells MW-2 and MW-3 from the sampling schedule and adding wells MW11-05 and MW11-06 instead. Last, KAS has suggested a small scale injection event designed to reduce concentrations at MW-1. The next annual site visit is proposed for September 2017.

KAS appreciates the opportunity to perform this work. Upon your review and approval KAS will copy this report to Mr. Richard Spiese of the Vermont Department of Environmental Conservation (VTDEC). Please call me if you have questions on the report.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Deratzian". The signature is fluid and stylized, with a long horizontal stroke extending to the right.

Eric Deratzian
Project Manager

Encl.

cc: KAS #407050214
Mr. Richard Spiese (VTDEC)

Lamoille Valley Ford (Former Hardwick Motors) Route 15 Hardwick, Vermont

KAS #407050214
VTDEC #96-2091

OCTOBER 2016 GROUNDWATER MONITORING REPORT

January 10, 2017

Prepared for:

Lamoille Valley Ford, Inc.
Route 15
Hardwick, Vermont 05843
Phone Number: (802) 472-5967



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Table of Contents

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2.0	Groundwater Monitoring.....	1
2.1	<i>Determination of Groundwater Flow Direction and Gradient</i>	<i>1</i>
2.2	<i>Groundwater Sample Collection and Analysis</i>	<i>2</i>
3.0	Senitive Receptor Risk Assessment.....	2
4.0	Conclusions	3
5.0	Recommendations.....	Error! Bookmark not defined.

Attachments

Attachment A	1) Site Location Map 2) Site Map 3) Groundwater Contour Map 4) Contaminant Concentration Map
Attachment B	Liquid Level Monitoring Data
Attachment C	Groundwater Quality Summary
Attachment D	Analytical Laboratory Report

1.0 Introduction and Background

This report summarizes the October 2016 groundwater monitoring event conducted at the Lamoille Valley Ford (former Hardwick Motors), located in Hardwick, Vermont (See Site Location Map, Attachment A). KAS, Inc. (KAS) has conducted this work for Lamoille Valley Ford, Inc. This work was conducted pursuant to KAS' recommendations presented in the *September 2015 Groundwater Monitoring Report* sent to Mr. Richard Spiese of the Vermont Department of Environmental Conservation (VTDEC) on November 10, 2015.

Site investigative efforts were initiated following the detection of subsurface petroleum impacts during the August 28, 1996 replacement of product and vent piping associated with a gasoline underground storage tank (UST) system. KAS currently monitors regional groundwater at the Site via a monitoring well network, which existed prior to the initiation of the 1997 investigation by Griffin International, Inc. As of this date, there are no known impacted sensitive receptors affected as a result of the gasoline release (aside from soil and groundwater).

On September 11, 2006 a UST was removed from the area of MW-1 through MW-3. During the removal of the UST 60 yards of contaminated soil was removed and stored on Site in back of the dealership. Approximately, 50 yards of soil was thin spread on site on April 6, 2009 and the remaining 10 yards were thin spread on August 2, 2010.

On March 3, 2011 a Supplemental Site Investigation (SSI) was conducted to further assess the degree and extent of petroleum impact to soil and groundwater in the presumed down gradient location of the former UST. Due to the stagnant levels recorded in the groundwater sample collected from MW-1 and the absence of full plume delineation, additional monitoring wells were installed in a presumed down gradient location to confirm the petroleum impacts are not migrating substantially beyond the source area. Groundwater analytical data and soil screening data collected during the SSI from the newly installed monitoring wells suggested residual petroleum beneath the site is generally confined within the former UST pit. The reader is referred to prior reports on file at the VTDEC office in Montpelier, Vermont for further Site history.

2.0 Groundwater Monitoring

Groundwater monitoring is being performed at the site to track migration of subsurface petroleum constituents and to document expected reductions in contaminant concentrations due to the natural mitigating processes of dilution, dispersion, and biodegradation. Groundwater monitoring tasks performed at the Lamoille Valley Ford site included monitoring of groundwater elevations to determine groundwater flow direction and gradient, and groundwater sampling and analyses.

2.1 Determination of Groundwater Flow Direction and Gradient

On October 11, 2016, six monitoring wells, MW-1, MW-2, MW-3, MW11-04, MW11-05 and MW11-06 were gauged with a Keck™ interface probe to collect the depth to groundwater measurements, and also to detect the presence of free product. Free product was not present in any of the monitoring wells gauged on October 11, 2016. The relative water table elevations were obtained by subtracting the depth to water from the top of casing elevation. See attached Liquid Level Monitoring in Attachment B.

Water table elevations measured on October 11, 2016 indicate the lowest average water table elevations measured since April 2011 (see attached Historical Liquid Level Monitoring Data in Attachment B). The groundwater elevations were plotted and contoured to denote the groundwater flow direction (see attached Groundwater Contour Map in Attachment A).

Groundwater level measurements indicate groundwater flows east/southeast at an approximate hydraulic gradient of between 0.003 feet per foot (ft/ft) and 0.008 ft/ft or 0.3% to 0.8%. This flow direction and gradient is analogous with historic results at the Site.

2.2 Groundwater Sample Collection and Analysis

On October 11, 2016, KAS collected groundwater samples from four of the six monitoring wells (MW-1, MW-2, MW-3, and MW11-06). Groundwater sampling was conducted in accordance with KAS' Groundwater Sampling Protocol using disposal bailers. Groundwater samples were analyzed for volatile organic compounds (VOCs) per EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary butyl ether (MTBE); 1,2,4 trimethylbenzene (TMB), 1,3,5-TMB, and naphthalene. The samples were stored on ice in the field and submitted to Endyne, Inc. of Williston, Vermont under proper chain-of-custody procedures.

Anytical Results

The laboratory data indicates that several compounds were above the Vermont Groundwater Enforcement Standards (VGES) in the groundwater sample collected from monitoring well MW-1 on October 11, 2016. The total contaminant concentration in MW-1 has increased since the last sampling event by 57.6%. The laboratory report indicates no compounds were detected above laboratory reporting limits in MW-2, MW-3 and MW11-06 during this sampling event. The laboratory analysis report for the October 11, 2016 sampling data is included in Attachment D.

Trend Analysis

The highest dissolved phase concentrations lie in the vicinity of monitoring well MW-1, which is generally located downgradient of the source area. VOC concentrations in this well have fluctuated over the years but are currently at levels within historical range; however, results from October 2016 are the highest observed since April 2011. Based on the east/southeast groundwater flow measured on October 11, 2016, the current monitoring well network appears to adequately define the dissolved phase plume at this time. Groundwater in downgradient well MW11-06 contains no dissolved petroleum constituents above laboratory reporting limits as well as cross-gradient wells MW-2 and MW-3; indicating petroleum impacts are isolated within the source area. Beginning in 2013, there appears to be an indirect correlation between petroleum VOC concentrations and groundwater elevations in MW-1. Total VOC concentrations were plotted to generate the Contaminant Concentration Map included in Attachment A.

QA/QC

One trip blank and one duplicate sample (MW-2) were collected for quality assurance/quality control (QA/QC). The results of the duplicate sample analysis were analyzed using a relative percent difference (RPD) method. The RPD is defined as 100 times the difference between the actual and duplicate sample, divided by the mean of the two samples. No VOCs were reported at or above the detection limits in the trip blank. A low RPD indicates a good correlation between the two samples, while a high RPD indicates a poor correlation. A RPD value was unable to be calculated due to non-detectable levels of VOCs in the samples collected. This data is presented in Attachment C.

3.0 Senitive Receptor Risk Assessment

The garage and an adjacent office building are the only buildings located on the Site. Both of the buildings located on Site are constructed on concrete slabs. Given their construction and distance from the source area, these buildings are not considered to be at risk of petroleum impact. The buildings on adjacent properties are likely at sufficient distance from the source area so as to have minimal risk of vapor impact from the source area. The Village of Hardwick receives its water from a bedrock artesian well located approximately 1/4 to 1/2 mile to the south-east of

the site. It is not likely that this well is at significant risk of petroleum contamination from the source area. Thirteen private wells exist within half a mile of the site with the nearest private well located 575 ft in a presumed cross-gradient location to the source area. These wells are not in the immediate vicinity and are therefore not considered at risk from on-site residual petroleum. Public utilities in the area include telephone, electricity, water, and sewer. Electric and telephone lines are located overhead. Water and sewer are obtained from the Village of Hardwick and are located underground behind the Lamoille Valley Ford building and northeast of the source area. Public utilities are not in the immediate vicinity and are therefore not considered at risk from on-site petroleum impacts.

4.0 Conclusions

Based on the results of the October 11, 2016 groundwater monitoring event and historical data available to date, KAS has reached the following conclusions:

- Groundwater level measurements indicate groundwater flows east/southeast at an approximate hydraulic gradient of between 0.003 ft/ft and 0.008 ft/ft or 0.3% to 0.8%. This flow direction and gradient is analogous with historic results at the Site;
 - A number of petroleum compounds remain at concentrations above the VGES in the groundwater collected from MW-1. The total dissolved concentrations in MW-1 have increased since the last sampling event by 57.6%, but remain within historical range;
 - The laboratory report indicates no compounds were detected above laboratory reporting limits in MW-2, MW-3 and MW11-06 during this sampling event;
 - Based on the groundwater flow measured on October 11, 2016, the current monitoring well network appears to adequately define the dissolved phase plume at this time as it appears the plume is isolated to the immediate vicinity of the source area; and
 - No sensitive receptors other than soil and groundwater have been identified as being impacted by the petroleum impacts at the Site at this time.
-

5.0 Recommendations

Based on these conclusions, KAS recommends the following:

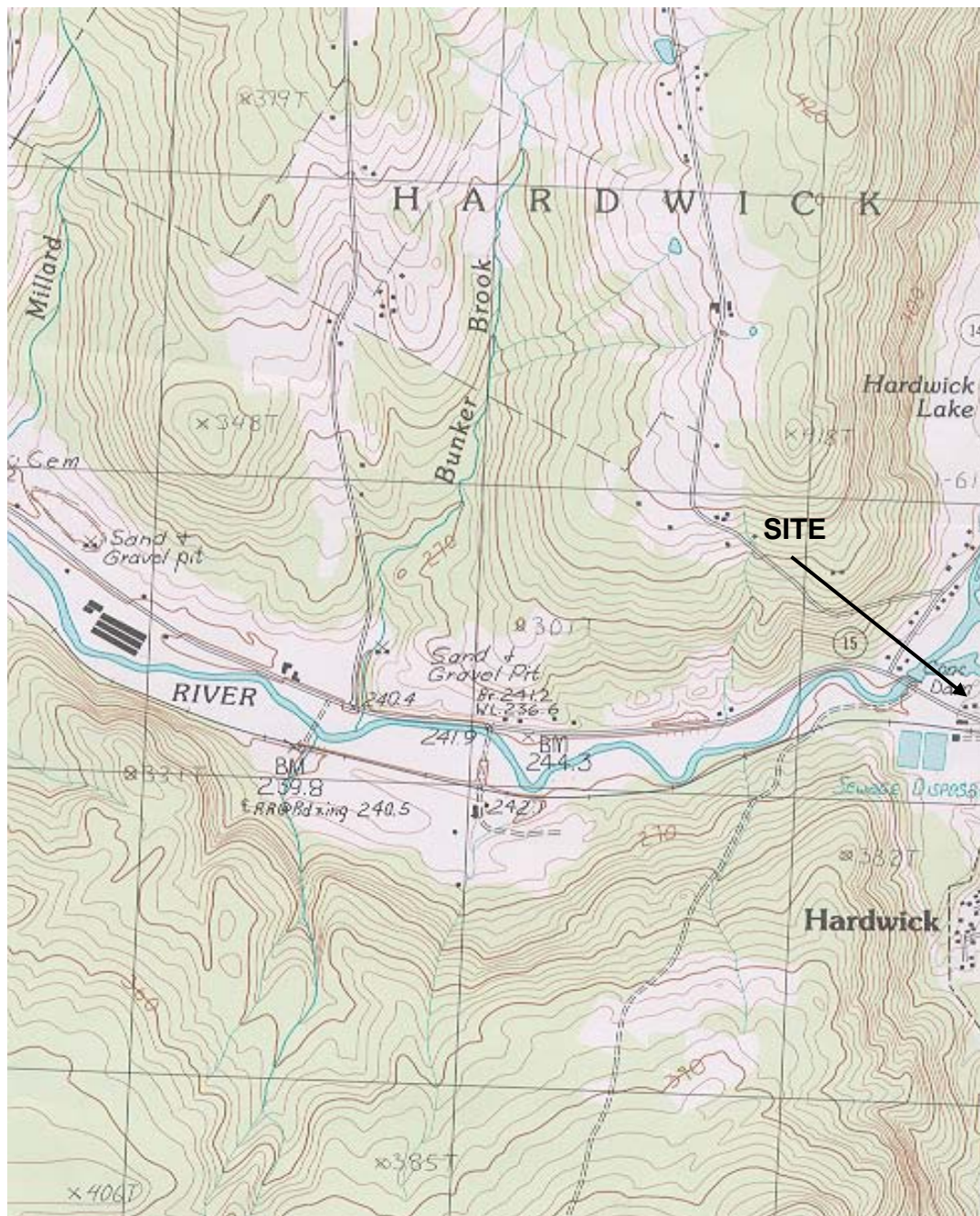
- Since petroleum compounds exceeded the VGES in the groundwater sample collected from MW-1 only, and contamination appears to be isolated to the source area, KAS recommends that groundwater monitoring be continued on an annual basis to determine the effect that natural attenuation is having on contaminant levels. The next sampling event should be scheduled for September 2017;
- Monitoring wells MW-1, MW11-05 and MW11-06 should be sampled and analyzed for petroleum compounds via EPA method 8021B and gauged to determine groundwater flow;
- Given that monitoring wells MW-2 and MW-3 are up gradient from the source area and have had non-detect levels of petroleum compounds for, at least, the previous four monitoring events, KAS recommends these wells be dropped from the sampling schedule. However, monitoring wells MW-2 and MW-3 should continue to be gauged for groundwater levels.
- Due to the stagnant levels of VOC concentrations at MW-1, consideration should be given to a small scale injection event to speed up Site closure.



Attachment A

- 1) Site Location Map**
- 2) Site Map**
- 3) Groundwater Contour Map**
- 4) Contaminant Concentration Map**

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KAS Job Number: 407050214 VTDEC #96-2092
Source: USGS Mapping Wolcott Quadrangle 1986

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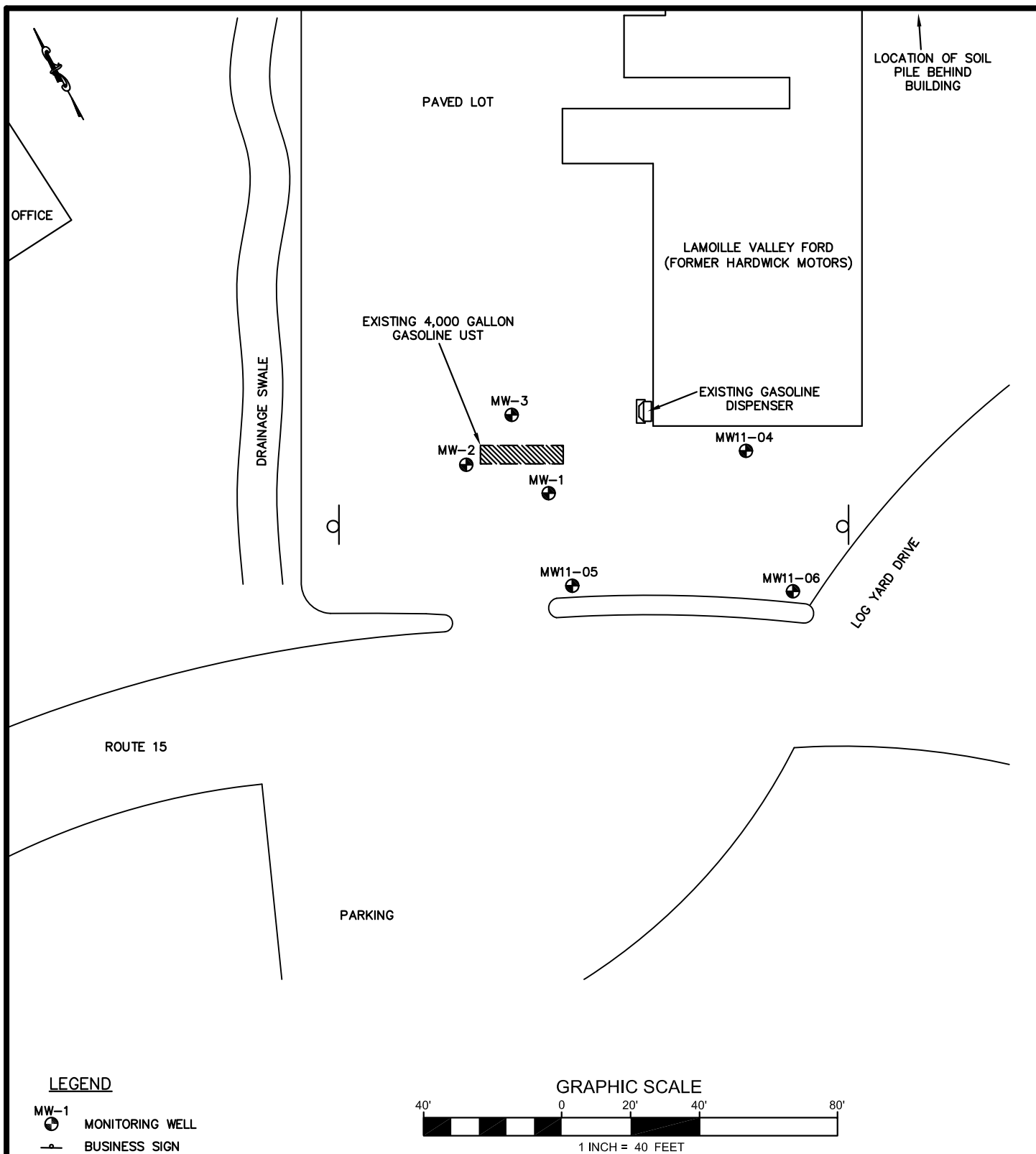
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Former Hardwick Motors **Hardwick Vermont**

Site Location Map
USGS Mapping

Date: 10/07/13 Drawing No. 0 Scale: 1:24,000 By: JD



SOURCE: GRIFFIN INTERNATIONAL SURVEY, 1/15/97

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LAMOILLE VALLEY FORD
(FORMER HARDWICK MOTORS)
ROUTE 15, HARDWICK, VERMONT

SITE MAP

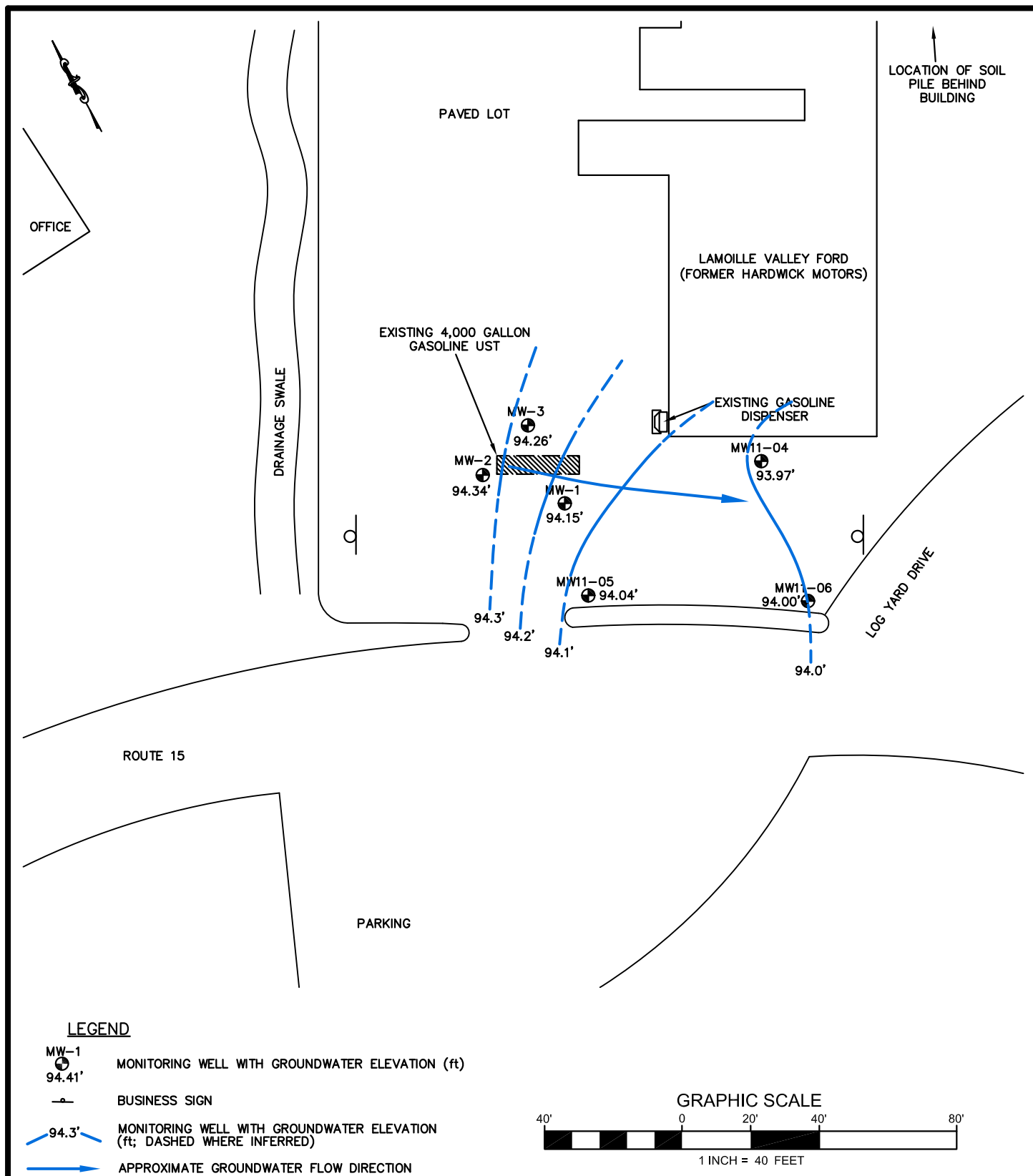
DATE: 1/9/17

DWG.#: 1

SCALE: 1"=40'

DRN.: TB

APP.: ED



SOURCE: GRIFFIN INTERNATIONAL SURVEY, 1/15/97

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LAMOILLE VALLEY FORD
(FORMER HARDWICK MOTORS)
ROUTE 15, HARDWICK, VERMONT

GROUNDWATER CONTOUR MAP

MEASURED: 10/11/16

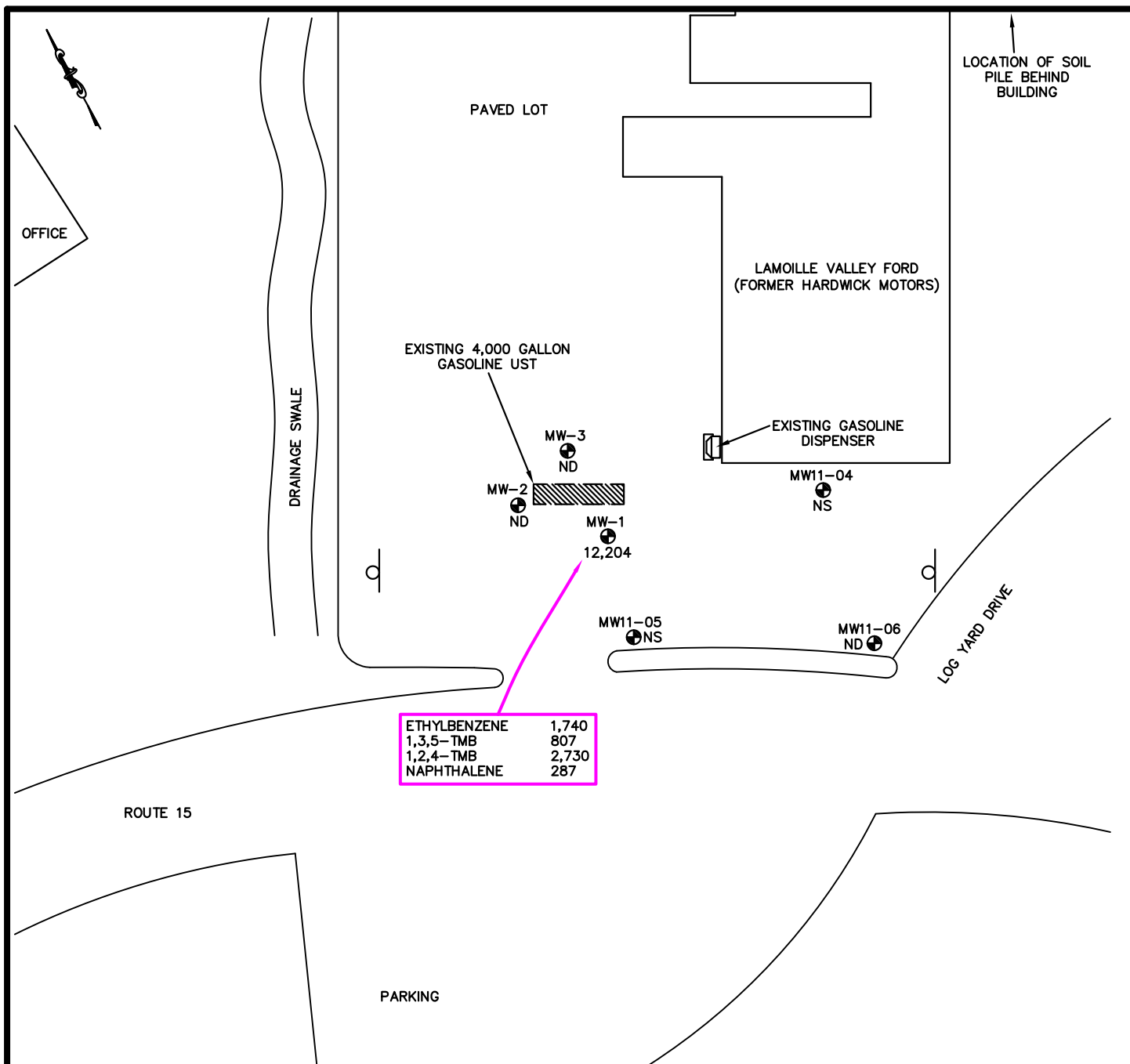
DATE: 1/9/17

DWG.#: 2

SCALE: 1"=40'

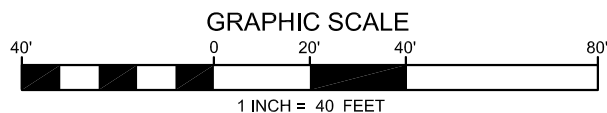
DRN.: TB

APP.: ED



LEGEND

- MW-1 12,204 MONITORING WELL WITH TOTAL VOC CONCENTRATION (ppb; M=8021B)
- BUSINESS SIGN
- ND NONE DETECTED
- NS NOT SAMPLED
- TMB TRIMETHYLBENZENE
- 1,3,5-TMB 807 VOC EXCEEDANCE OF VGES



SOURCE: GRIFFIN INTERNATIONAL SURVEY, 1/15/97

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LAMOILLE VALLEY FORD
(FORMER HARDWICK MOTORS)
ROUTE 15, HARDWICK, VERMONT

VOC CONCENTRATION MAP

SAMPLED: 10/11/16

DATE: 1/9/17

DWG.#: 3

SCALE: 1"=40'

DRN.: TB

APP.: ED



Attachment B

Liquid Level Monitoring Data



**Liquid Level Monitoring Data
Former Hardwick Motors
Hardwick, VT**

Monitoring Date: 10/11/16

Well I.D.	Top of Casing Elevation	Depth To Product	Depth To Water	Product Thickness	Specific Gravity Of Product	Hydro Equivalent	Corrected Depth To Water	Corrected Water Table Elevation
MW-1	100.00	-	5.85	-	-	-	5.85	94.15
MW-2	99.78	-	5.44	-	-	-	5.44	94.34
MW-3	99.97	-	5.71	-	-	-	5.71	94.26
MW11-04	100.48	-	6.51	-	-	-	6.51	93.97
MW11-05	100.22	-	6.18	-	-	-	6.18	94.04
MW11-06	100.29	-	6.29	-	-	-	6.29	94.00

Notes:

1. All measurements in units of feet

NM = Not Measured

MW11-04 through MW11-06 were installed in March 2011

**Historic Liquid Level Monitoring Data
Former Hardwick Motors
Hardwick, VT**

Well I.D.	Sample Date:										
	1/15/1997	7/9/1997	7/7/1998	7/15/1999	7/7/2000	7/9/2001	7/10/2003	7/21/2004	8/3/2005	9/12/2007	9/4/2008
MW-1	91.99	95.90	96.21	95.57	95.63	95.35	94.38	94.67	94.53	94.50	94.52
MW-2	91.91	95.91	96.29	95.65	95.68	95.44	94.45	94.75	94.61	94.66	94.65
MW-3	91.91	95.96	96.30	95.66	95.71	95.46	94.46	94.76	94.61	94.58	94.61

Well I.D.	Sample Date:										
	8/13/2009	8/4/2010	4/4/2011	9/8/2011	9/11/2012	9/19/2013	9/9/2014	10/8/2015	10/11/2016		
MW-1	94.55	94.82	92.84	95.45	94.55	94.60	94.23	94.41	94.15		
MW-2	94.7	94.98	92.88	95.60	94.71	94.74	94.78	94.57	94.34		
MW-3	-	-	NM	96.60	94.68	94.68	94.35	94.50	94.26		
MW11-04			92.83	95.40	94.49	94.52	94.12	94.25	93.97		
*MW11-05			93.46	95.41	94.50	94.54	94.16	94.31	94.04		
MW11-06			93.00	95.43	94.49	94.54	94.16	94.29	94.00		

Notes:

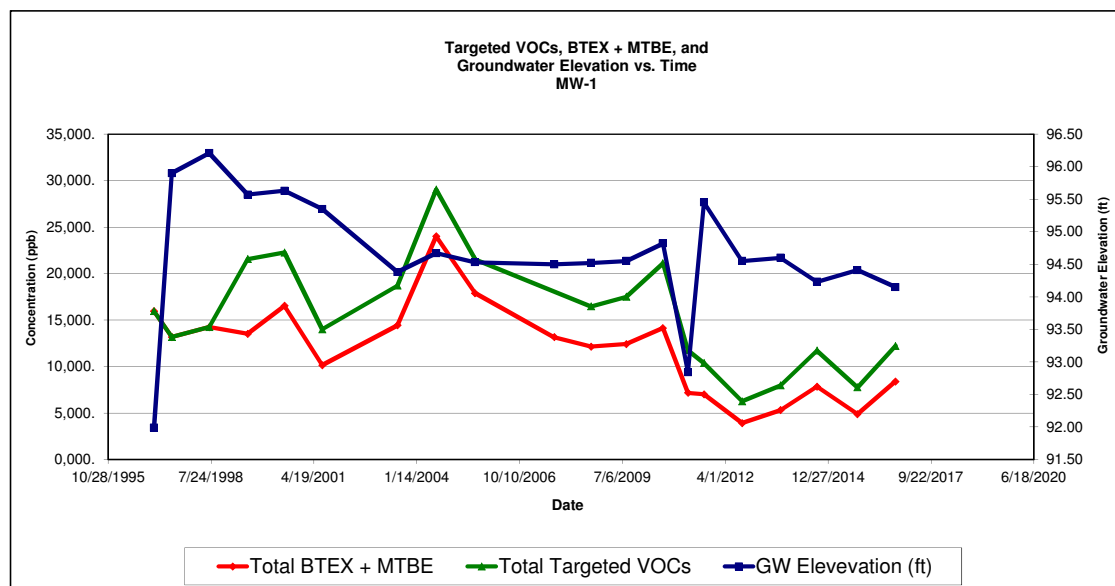
1. All measurements in units of feet

*MW11-05 was measured on 3/11/2011



Attachment C

Groundwater Quality Summary



**Groundwater Quality Data
Hardwick, VT**

PARAMETER	MW-1										VGES
	1/15/1997	7/9/1997	7/7/1998	7/15/1999	7/7/2000	7/9/2001	7/10/2003	7/21/2004	8/3/2005	9/12/2007	
EPA Method	602	602	602	8021B	8021B	8021B	8021B	8021B	8021B	8260B	
Benzene	127.	88.5	TBQ<50	ND<100.	54.8	ND<100.	55.1	ND<100.	ND<100.	ND<100	5
Toluene	1,130.	589.	714.	167.	550.	187.	299.	230.	177.	ND<100	1000
Ethylbenzene	2,700.	2,090.	2,070.	1,530.	2,430.	1,750.	2,300.	4,690.	3,330.	3,060.	700
Xylenes	12,000.	10,400.	9,810.	6,770.	11,100.	6,960.	10,000.	18,000.	13,900.	10,100.	10000
MTBE	<1000	<500	1,640.	5,060.	2,390.	1,250.	1,770.	1,090.	479.	ND<200	40
Total BTEX + MTBE	15,957.	13,168.	14,234.	13,527.	16,525.	10,147.	14,424.	24,010.	17,886.	13,160.	-
1,3,5-Trimethylbenzene	NA	NA	NA	716.	741.	578.	546.	845.	755.	921.	4
1,2,4-Trimethylbenzene	NA	NA	NA	2,140.	2,390.	1820.	1,780.	2,780.	2,570.	3,180.	5
Naphthalene	NA	NA	NA	115.	219.	198.	182.	306.	309.	441.	20
Total VOCs	15,957.	13,168.	14,234.	21,558.	22,265.	13,993.	18,702.	29,031.	21,520.	17,702.	-

PARAMETER	MW-1										VGES
	9/4/2008	8/13/2009	8/4/2010	4/4/2011	9/8/2011	9/11/2012	9/19/2013	9/9/2014	10/8/2015	10/11/2016	
EPA Method	8260B	8021B	8021B	8021B	8021B	8021B	8021B	8021B	8021B	8021B	
Benzene	ND<50.0	ND(100)	ND(100)	218.	ND(100)	ND<20.0	ND<20.0	ND<100	ND<50.0	ND<50.0	5
Toluene	ND<50.0	ND(100)	ND(100)	0.112.	103.	ND<20.0	ND<20.0	ND<100	ND<50.0	ND<50.0	1000
Ethylbenzene	2,710.	2,620.	2,940.	1,570.	1,540.	910.	1,380	1,840	1,140	1,740	700
Xylenes	9,430.	9,800.	11,200.	5,270.	5,360.	3,000.	3,920	5,990	3,730	6,640	10000
MTBE	ND<100	ND(200)	ND(200)	ND(200)	ND(200)	ND<40.0	ND<40.0	ND<200	ND<100	ND<100	40
Total BTEX + MTBE	12,140.	12,420.	14,140.	7,170.	7,003.	3,910.	5,300	7,830	4,870	8,380	-
1,3,5-Trimethylbenzene	899.	1,030.	1,520.	1,090.	742.	516.	657	959	680	807	350
1,2,4-Trimethylbenzene	3,100.	3,670.	5,090.	3,490.	2,430.	1,700.	1,830	2,700	2,070	2,730	
Naphthalene	331.	377.	368.	ND(200)	201.	134.	163	225	124	287	20
Total VOCs	16,470.	17,497.	21,118.	11,750.	10,376.	6,260.	7,950	11,714	7,744	12,204	-

Notes:

VGES = Vermont Groundwater Enforcement Standard

ND<1 = not detected less than detection limit

TBQ<1 = to be quantified, less than quantitation limit

Bold indicates a detection. Shaded areas indicate concentrations which are equal to or exceed the applicable VGES.

NA = not applicable, not analyzed

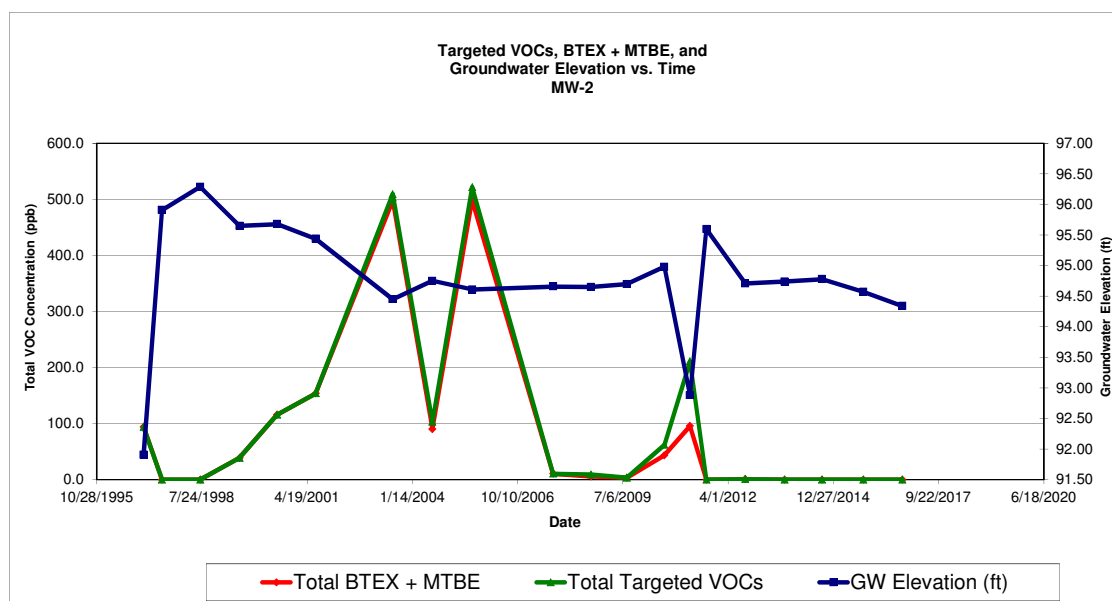
All Values Reported in ug/L (ppb)

ANALYSIS: EPA Method 602 during 1997 and 1998 sampling rounds. EPA Method 8021B post-1999.

Chlorobenzene and dichlorobenzene isomers removed from table due to non-detect results.

All Values Reported in ug/L (ppb)

VGES - Vermont Groundwater Enforcement Standard (2/14/05)



Groundwater Quality Data Hardwick, VT

PARAMETER	MW-2									
	1/15/1997	7/9/1997	7/7/1998	7/15/1999	7/7/2000	7/9/2001	7/10/2003	7/21/2004	8/3/2005	9/12/2007
EPA Method	602	602	602	8021B	8021B	8021B	8021B	8021B	8021B	8260B
Benzene	11.8	<1	<1	ND<1	<2.0	ND<2.0	ND<4.0	ND<1.0	ND<1.0	ND<1.0
Toluene	<1	<1	<1	ND<1	<2.0	ND<2.0	ND<4.0	ND<1.0	ND<1.0	ND<1.0
Ethylbenzene	73.4	<1	<1	ND<1	<2.0	ND<2.0	12.5	13.4	15.2	1.6
Xylenes	9.1	<1	<1	ND<1	<2.0	ND<2.0	12.4	16.6	23.1	ND<2.0
MTBE	<10	<10	<10	39.2	116.	154.	473.	60.4	460.	9.1
Total BTEX + MTBE	94.3	ND	ND	39.2	116.0	154.0	497.9	90.4	498.3	10.7
1,3,5-Trimethylbenzene	NA	NA	NA	ND<1	<2.0	ND<2.0	ND<4.0	1.6	3.2	ND<1.0
1,2,4-Trimethylbenzene	NA	NA	NA	ND<1	<2.0	ND<2.0	11.6	11.3	17.9	ND<1.0
Naphthalene	NA	NA	NA	ND<1	<2.0	ND<2.0	ND<4.0	ND<2.0	2.3	ND<2.0
Total VOCs	94.3	ND	ND	39.2	116.	154.	510.	103.	522.	10.7

PARAMETER	MW-2									
	9/4/2008	8/13/2009	8/4/2010	4/4/2011	9/8/2011	9/11/2012	9/19/2013	9/9/2014	10/8/2015	10/11/2016
EPA Method	8260B	8021B	8021B	8021B	8021B	8021B	8021B	8021B	8021B	8021B
Benzene	ND<1.0	ND<1.0	2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Ethylbenzene	1.6	1.3	16.4	53.3	ND<1.0	1.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Xylenes	4.3	ND<2.0	22.8	42.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
MTBE	ND<2.0	2.4	2.5	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Total BTEX + MTBE	5.9	3.7	43.7	95.8	ND	1.1	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND<1.0	ND<1.0	2.6	11.7	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,2,4-Trimethylbenzene	3.3	ND<1.0	15.9	96.7	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Naphthalene	ND<2.0	ND<2.0	ND<2.0	6.9	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Total VOCs	9.2	3.7	62.2	211.1	ND	1.1	ND	ND	ND	ND

Notes:

VGES = Vermont Groundwater Enforcement Standard

ND<1 = not detected less than detection limit

TBQ<1 = to be quantified, less than quantitation limit

Bold indicates a detection. Shaded areas indicate concentrations which are equal to or exceed the applicable VGES.

NA = not applicable, not analyzed

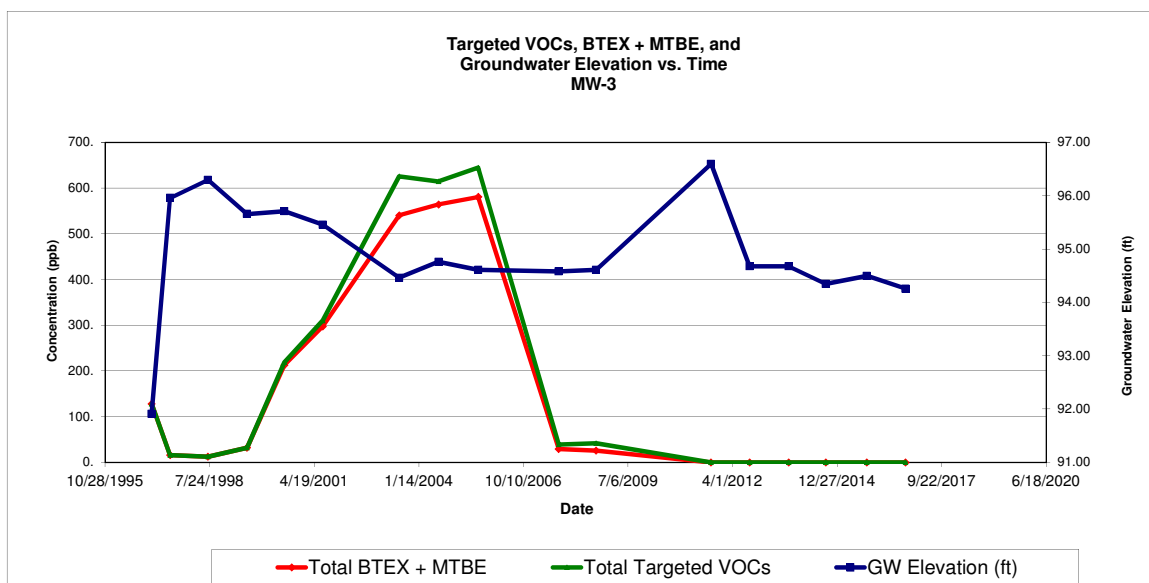
All Values Reported in ug/L (ppb)

ANALYSIS: EPA Method 602 during 1997 and 1998 sampling rounds. EPA Method 8021B post-1999.

Chlorobenzene and dichlorobenzene isomers removed from table due to non-detect results.

All Values Reported in ug/L (ppb)

VGES - Vermont Groundwater Enforcement Standard (2/14/05)



Groundwater Quality Data Hardwick, VT

PARAMETER	MW-3										VGES
	1/15/1997	7/9/1997	7/7/1998	7/15/1999	7/7/2000	7/9/2001	7/10/2003	7/21/2004	8/3/2005	9/12/2007	
EPA Method	602	602	602	8021B	8021B	8021B	8021B	8021B	8021B	8260B	
Benzene	6.9	4.6	<1	ND<1	4.3	ND<4.0	10.2	ND<5.0	4.7	ND<1.0	5
Toluene	1.9	TBQ<1	<1	ND<1	<2.0	ND<4.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0	1000
Ethylbenzene	62.8	1.3	<1	ND<1	14.4	48.3	33.4	37.5	58.8	16.1	700
Xylenes	45.0	TBQ<1	<1	ND<1	<2.0	ND<4.0	24.9	20.5	39.2	13.2	10000
MTBE	11.4	10.4	12.9	32.2	194.	249.	472.	506.	478.	ND<2.0	40
Total BTEX + MTBE	128.	16.	13.	32.	213.	297.	541.	564.	581.	29.3	-
1,3,5-Trimethylbenzene	NA	NA	NA	ND<1	<2.0	ND<4.0	11.5	12.8	19.5	ND<1.0	4
1,2,4-Trimethylbenzene	NA	NA	NA	ND<1	6.1	12.8	55.5	37.6	41.2	10.1	5
Naphthalene	NA	NA	NA	ND<1	<2.0	ND<4.0	18.4	ND<10.0	3.5	ND<2.0	20
Total VOCs	128.	16.	13.	32.	219.	310.	626.	614.	645.	39.4	-

PARAMETER	MW-3										
	9/4/2008	8/13/2009	8/4/2010	4/4/2011	9/8/2011	9/11/2012	9/19/2013	9/9/2014	10/8/2015	10/11/2016	VGES
EPA Method	8260B			Well paved over	8021B	8021B	8021B	8021B	8021B	8021B	
Benzene	ND<1.0	COULD	COULD		ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5
Toluene	ND<1.0	NOT	NOT		ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1000
Ethylbenzene	7.5	ACCESS	ACCESS		ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	700
Xylenes	18.3	WELL	WELL		ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	10000
MTBE	ND<2.0				ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	40
Total BTEX + MTBE	25.8				ND	ND	ND	ND	ND	ND	-
1,3,5-Trimethylbenzene	2.8				ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350
1,2,4-Trimethylbenzene	10.6				ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
Naphthalene	2.9				ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	
Total VOCs	42.1				ND	ND	ND	ND	ND	ND	-

Notes:

VGES = Vermont Groundwater Enforcement Standard

ND<1 = not detected less than detection limit

TBQ<1 = to be quantified, less than quantitation limit

Bold indicates a detection. Shaded areas indicate concentrations which are equal to or exceed the applicable VGES.

NA = not applicable, not analyzed

All Values Reported in ug/L (ppb)

ANALYSIS: EPA Method 602 during 1997 and 1998 sampling rounds. EPA Method 8021B post-1999.

Chlorobenzene and dichlorobenzene isomers removed from table due to non-detect results.

All Values Reported in ug/L (ppb)

VGES - Vermont Groundwater Enforcement Standard (2/14/05)



Groundwater Quality Data Hardwick, VT

PARAMETER	MW11-04								VGES
	3/11/2011	9/8/2011	9/11/2012	9/19/2013					
EPA Method	8021B	8021B	8021B	8021B					
Benzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	Removed From Sampling				5
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					1000
Ethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					700
Xylenes	ND<2.0	ND<2.0	ND<2.0	ND<2.0					10000
MTBE	ND<2.0	ND<2.0	ND<2.0	ND<2.0					40
Total BTEX + MTBE	ND	ND	ND	ND					-
1,3,5-Trimethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					350
1,2,4-Trimethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					
Naphthalene	ND<2.0	ND<2.0	ND<2.0	ND<2.0					20
Total VOCs	ND	ND	ND	ND					-

Groundwater Quality Data Hardwick, VT

PARAMETER	MW11-05								VGES
	3/11/2011	9/8/2011	9/11/2012	9/19/2013					
EPA Method	8021B	8021B	8021B	8021B	Removed from Sampling				
Benzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					5
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					1000
Ethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					700
Xylenes	ND<2.0	ND<2.0	ND<2.0	ND<2.0					10000
MTBE	ND<2.0	ND<2.0	ND<2.0	ND<2.0				40	
Total BTEX + MTBE	ND	ND	ND	ND					-
1,3,5-Trimethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					350
1,2,4-Trimethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0					
Naphthalene	ND<2.0	ND<2.0	ND<2.0	ND<2.0					20
Total VOCs	ND	ND	ND	ND					-

Groundwater Quality Data Hardwick, VT

PARAMETER	MW11-06								VGES
	3/11/2011	9/8/2011	9/11/2012	9/19/2013	9/9/2014	10/8/2015	10/11/2016		
EPA Method	8021B	8021B	8021B	8021B	8021B	8021B	8021B		
Benzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0		5
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0		1000
Ethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0		700
Xylenes	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0		10000
MTBE	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0		40
Total BTEX + MTBE	ND	ND	ND	ND	ND	ND	ND		-
1,3,5-Trimethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0		350
1,2,4-Trimethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0		
Naphthalene	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0		20
Total VOCs	ND	ND	ND	ND	ND	ND	ND		-

Notes:

VGES = Vermont Groundwater Enforcement Standard

ND<1 = not detected less than detection limit

TBQ<1 = to be quantified, less than quantitation limit

Bold indicates a detection. Shaded areas indicate concentrations which are equal to or exceed the applicable VGES.

NA = not applicable, not analyzed

All Values Reported in ug/L (ppb)

All Values Reported in ug/L (ppb)

VGES - Vermont Groundwater Enforcement Standard (2/14/05)



Attachment D

Analytical Laboratory Report



Laboratory Report

KAS, Inc.	100306
PO Box 787	
Williston, VT 05495	
Atten: Jeremy Roberts	

PROJECT: 407050214 Lamoille Valley Ford

WORK ORDER: **1610-23452**

DATE RECEIVED: October 12, 2016

DATE REPORTED: October 19, 2016

SAMPLER: Amy

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com



160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



CLIENT: KAS, Inc.
 PROJECT: 407050214 Lamoille Valley Ford
 REPORT DATE: 10/19/2016

WORK ORDER: 1610-23452
 DATE RECEIVED: 10/12/2016

TEST METHOD: EPA 8021B

001 Site: MW-1 Date Sampled: 10/11/16 10:35 Analysis Date: 10/17/16 W EEP

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 100	ug/L	N		Benzene	< 50.0	ug/L	N	
Toluene	< 50.0	ug/L	N		Ethylbenzene	1,740	ug/L	N	
Xylenes, Total	6,640	ug/L	N		1,3,5-Trimethylbenzene	807	ug/L	N	
1,2,4-Trimethylbenzene	2,730	ug/L	N		Naphthalene	287	ug/L	N	
Surr. 1 (Bromobenzene)	115	%	N		Unidentified Peaks	> 10		N	

TEST METHOD: EPA 8021B

002 Site: MW-2 Date Sampled: 10/11/16 10:20 Analysis Date: 10/17/16 W EEP

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	N		Benzene	< 1.0	ug/L	N	
Toluene	< 1.0	ug/L	N		Ethylbenzene	< 1.0	ug/L	N	
Xylenes, Total	< 2.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	N	
1,2,4-Trimethylbenzene	< 1.0	ug/L	N		Naphthalene	< 2.0	ug/L	N	
Surr. 1 (Bromobenzene)	103	%	N		Unidentified Peaks	0		N	

TEST METHOD: EPA 8021B

003 Site: MW-3 Date Sampled: 10/11/16 10:05 Analysis Date: 10/18/16 W EEP

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	N		Benzene	< 1.0	ug/L	N	
Toluene	< 1.0	ug/L	N		Ethylbenzene	< 1.0	ug/L	N	
Xylenes, Total	< 2.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	N	
1,2,4-Trimethylbenzene	< 1.0	ug/L	N		Naphthalene	< 2.0	ug/L	N	
Surr. 1 (Bromobenzene)	107	%	N		Unidentified Peaks	0		N	

TEST METHOD: EPA 8021B

004 Site: MW11-06 Date Sampled: 10/11/16 09:37 Analysis Date: 10/18/16 W EEP

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	N		Benzene	< 1.0	ug/L	N	
Toluene	< 1.0	ug/L	N		Ethylbenzene	< 1.0	ug/L	N	
Xylenes, Total	< 2.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	N	
1,2,4-Trimethylbenzene	< 1.0	ug/L	N		Naphthalene	< 2.0	ug/L	N	
Surr. 1 (Bromobenzene)	109	%	N		Unidentified Peaks	0		N	

TEST METHOD: EPA 8021B

005 Site: Duplicate Date Sampled: 10/11/16 10:20 Analysis Date: 10/18/16 W EEP

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	N		Benzene	< 1.0	ug/L	N	
Toluene	< 1.0	ug/L	N		Ethylbenzene	< 1.0	ug/L	N	
Xylenes, Total	< 2.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	N	
1,2,4-Trimethylbenzene	< 1.0	ug/L	N		Naphthalene	< 2.0	ug/L	N	
Surr. 1 (Bromobenzene)	103	%	N		Unidentified Peaks	0		N	

Laboratory Report

Page 3 of 3

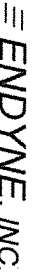
CLIENT: KAS, Inc.
PROJECT: 407050214 Lamoille Valley Ford
REPORT DATE: 10/19/2016

WORK ORDER: **1610-23452**
DATE RECEIVED: 10/12/2016

TEST METHOD: EPA 8021B

006 Site: Trip Blank Date Sampled: 10/11/16 06:28 Analysis Date: 10/18/16 W EEP

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Nelac</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Nelac</u>	<u>Qual</u>
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	N		Benzene	< 1.0	ug/L	N	
Toluene	< 1.0	ug/L	N		Ethylbenzene	< 1.0	ug/L	N	
Xylenes, Total	< 2.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	N	
1,2,4-Trimethylbenzene	< 1.0	ug/L	N		Naphthalene	< 2.0	ug/L	N	
Surr. 1 (Bromobenzene)	98	%	N		Unidentified Peaks	0		N	



CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions/PO#: 407050914

78054

Project Name: <i>Lesnoille Valley Ford</i>	
State of Origin: VT <input checked="" type="checkbox"/> NY <input type="checkbox"/> NH <input type="checkbox"/> Other <input type="checkbox"/>	
Endyme WO #	
Client/Contact Name: <i>hms</i>	Sampler Name: <i>GR</i>
Phone #: <i>866-222-7329</i>	Phone #:
Mailing Address: <i>hms</i>	Billing Address: <i>LA</i>

Sample Location	Matrix	GRA B	COM P	Date/Time Sampled	Sample Containers No.	Type/Size	Sample Preservation	Analysis Required
MW-1	H ₂ O	X		10/11/15 10:35	2	40ml	HCL	19
MW-2				10:20				
MW-3				10:05				
MW11-06				9:37				
Directly to Black				10:20				
				6:28				

Relinquished by:		Date/Time		Received by:		Date/Time		Received by:		Date/Time	
1	pH	8	TKN	11	Total Solids	16	Sulfate	21	1664 TPN/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	19	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOG Halocarbons	25	8270 B/N or Acid	30	Total RCRA8
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Ti, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)						33	Other			
34	Corrosivity	35	Ignitability	36	Reactivity	37	Other				
38	Other										

LAB USE ONLY
 Delivery: Client
 Temp: 2.0
 Comment:
 Rec'd only one vial
 for the Duplicate set

STATE OF VERMONT AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Copy
MAILED 10/27/14

ENVIRONMENTAL PROTECTION RULE, CHAPTER 11
UNDERGROUND INJECTION CONTROL RULE
Injection Well Closure Form for High Risk Activities (§11-907)
(A floor drain which discharges to the soil or groundwater is an injection well)

Contact the UIC Program Administrator, Darlene Autery with any questions regarding this form by email Darlene.autery@Vermont.gov or phone 802-477-3441. When submitting this form, be sure that the form is complete and legible. Please mail the form to:

Vermont Underground Injection Control Program
Drinking Water & Groundwater Protection Division
1 National Life Drive, Main 2
Montpelier, VT 05620-3521

GENERAL INFORMATION

Please attach additional sheets if needed.

1. Well ID (If previously registered): IHD09
2. Applicant Name: TIMOTHY A. NISSEY
3. Injection Well Owner/Responsible Person Name: 281 VT RTE 15 W. LLC
4. Legal Entity (Business Name): OWNED BY: THE BIG YELLOW BARN, INC.
5. Mailing Address (Owner/Responsible Person): 2564 TOWN HWY B GREENSBORO, VT 05841
6. Telephone Number (Owner/Responsible Person): 802-595-2131
7. Email Address (Owner/Responsible Person): YELLOWBARN@VTLINK.NET
8. Facility Address: 281 VT RTE 15 W, HARDWICK, VT 05843
9. Describe the facility:

Effective 10/29/14, injection wells that receive waste from the location within a facility where the following high risk activities occur, are prohibited. **Floor drain closure notification (this form) is required.** Check all that apply.

- | | |
|---|---|
| <input checked="" type="checkbox"/> automotive repair | <input type="checkbox"/> petroleum refinery |
| <input type="checkbox"/> autobody shop | <input type="checkbox"/> petroleum distribution (fuel pumps, gas stations, etc.) |
| <input type="checkbox"/> automotive dealership | <input type="checkbox"/> petroleum bulk storage |
| <input type="checkbox"/> specialty repair shop (transmission, muffler repair, etc.) | <input type="checkbox"/> hazardous material storage (excluding residential or office use) |
| <input type="checkbox"/> auto salvage and/or recycling yard | <input type="checkbox"/> pesticides, herbicides, fungicides (excluding residential or office use) |
| <input type="checkbox"/> dry cleaning | |
| <input type="checkbox"/> photo finishing | |
| <input type="checkbox"/> mortuaries | |

10. Total number of floor drains at the facility: 1

11. Please attach a sketch of floor drain location(s) and discharge location. Explain which floor drains were closed and any that remain open. DRAIN CLOSED 7/8/2016

12. Indicate where the wastewater discharged prior to closure.

For example the wastewaters discharge through three trench floor drains through an oil/water separator, to a 10,000 gallon septic tank, to a leachfield (check all that apply):

- | | |
|--|---|
| <input type="checkbox"/> sand/grit separator | <input type="checkbox"/> cesspool |
| <input type="checkbox"/> oil/water separator | <input type="checkbox"/> directly into ground |
| <input type="checkbox"/> septic tank | <input type="checkbox"/> stormwater drain |
| <input type="checkbox"/> drywell | <input checked="" type="checkbox"/> daylight/drainage ditch |
| <input type="checkbox"/> leachfield | <input type="checkbox"/> municipal sewer |

12. (continued) Description: _____

13. Injection wells that are prohibited shall be plugged, abandoned and closed in a manner that assures future compliance with the Vermont Groundwater Protection Rule and Strategy (GWPRS) such that activities shall not cause a violation of the State of Vermont's Groundwater Enforcement Standards (VGES).

Describe well "closure" method:

- ☐ The floor drain was connected to the (Town) _____
municipal sewer service on (date): _____
- ☐ The floor drain was connected to a holding tank on (date): _____
Describe tank (size, construction and location, ex. 1,000 gallon concrete tank 10 feet west of the southwest corner of the garage building): _____

See Guidance Recommended Use and Maintenance of Holding Tanks on the State of Vermont UIC Website for additional information.

☒ Plugged with concrete on (date): 7/8/2016
Provide summary including volume of concrete, method of placement, etc. _____
Sealed Drain with concrete

15. Recommended attachments (not required for compliance)

- ☐ Photographs of floor drains and discharge location (even though the discharge may be below ground)
- ☐ An environmental professional report of the well closure and environmental assessment
- ☐ A letter from the Town indicating that the floor drain has been connected to municipal services (applicable for municipal connection)
- ☐ Holding tank maintenance plan (applicable to holding tanks)

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Timothy A. Disbey
Print Name:

10/27/2016
Date:

Timothy A. Disbey
Signature:

**ENVIRONMENTAL QUESTIONNAIRE &
USER QUESTIONNAIRE**

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- Site Description/Address: 281 VT Route 15 - Hardwick, VT
- Date of Interview: August 29, 2017
- Person(s) Interviewed: TIM Nisbet
- Title/Relationship to Property: Owner
- Number of Years at Property: 29
- Current Owner(s): 281 VT Route 15, LLC / Bio Yellow Barn, Inc.
- Current Occupant(s): Former Greensboro garage
- Report User(s): 1781 Group, LLC (Andrew Meyer)

-
- Current Use(s) of the Property: vacant / parts storage (recently auto garage)
 - Former Use(s) of the Property: Auto garage, Auto body, Equip repair, Dairy Farm
 - Evidence or Knowledge of the Property Ever Being Used As:

YES	NO	USE	COMMENTS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	INDUSTRIAL	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GASOLINE STATION	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	MOTOR REPAIR FACILITY	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	COMMERCIAL PRINTING FACILITY	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	DRY CLEANERS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PHOTO DEVELOPING LAB	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	JUNKYARD / LANDFILL	Some junk cars temporary, stored no auto salvage
<input type="checkbox"/>	<input checked="" type="checkbox"/>	WASTE TSD FACILITY	

- Current Use(s) of the Adjoining Properties:

*Mix commercial / Residential
Public R.O.W. / Railroad tracks*

- Former Use(s) of the Adjoining Properties:

SAME

- Evidence or Knowledge of the Adjoining Properties Ever Being Used As:

YES	NO	USE	COMMENTS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	INDUSTRIAL	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GASOLINE STATION	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	MOTOR REPAIR FACILITY	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	COMMERCIAL PRINTING FACILITY	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	DRY CLEANERS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PHOTO DEVELOPING LAB	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	WASTE TSD FACILITY	

-Evidence of Knowledge of Current or Former Storage Tanks on the Property:

YES	NO	USE	SUBSTANCE / SIZE / AGE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PETROLEUM ASTs	<i>275 - gallon AST inside w/ waste oil furnace</i>
<input type="checkbox"/>	<input type="checkbox"/>	PETROLEUM USTs	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PROPANE GAS ASTs	<i>1 - propane AST</i>
<input type="checkbox"/>	<input type="checkbox"/>	PROPANE GAS USTs	
<input type="checkbox"/>	<input type="checkbox"/>	OTHER ASTs	

-Evidence of Knowledge of Current or Former Hazards on the Property:

YES	NO	HAZARD	COMMENTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	HAZARDOUS SUBSTANCES / PETROLEUM PRODUCTS	brake fluid, antifreeze, transmission fluid gas in 5-gal. cans.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	DAMAGED/DISCARDED BATTERIES, PAINTS, PESTICIDES, CHEMICALS	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	DRUMS OR SACKS OF CHEMICALS	mostly empty drums some old drums in shed area.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	FILL DIRT FROM CONTAMINATED SITE OR UNKNOWN ORIGIN	- state straightend road - Union Bank development yes fill no known contamination
<input type="checkbox"/>	<input checked="" type="checkbox"/>	WASTE TREATMENT: PITS, PONDS, LAGOONS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	STAINED SOIL	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	VENT PIPES / FILL PIPES FROM THE GROUND	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NON-WATER LEAKS & STAINS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	CONTAMINANTS IN WATER SUPPLY	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	DUMPING OR BURN PILES	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PROCESS WASTEWATER (non-sanitary)	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HYDRAULIC OR ELECTRICAL EQUIPMENT	Above ground hydraulic lift

-Evidence of Knowledge of Current or Former Administrative / Legal Proceedings:

YES	NO	PROCEEDING	COMMENTS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ENVIRONMENTAL LIENS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ENVIRONMENTAL VIOLATIONS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ENVIRONMENTAL LAWSUITS OR LEGAL PROCEEDINGS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	FORMER ENVIRONMENTAL SITE ASSESSMENTS	

Preparer represents that to the best of the preparer's knowledge the above statements and facts are true and correct and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated:

R.E.A. Interviewer/Preparer: Jim Rose

Signed / Dated:



8/29/11

Other Preparer:

Signed / Dated:



AAI - USER QUESTIONNAIRE

In order to qualify for CERCLA liability protection, the *USER*¹ should provide the following information (if available) to the *ENVIRONMENTAL PROFESSIONAL*. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" was not complete.

Subject Property:

User Name / Preparer Name:

Date:

1. Environmental cleanup liens that are filed or recorded against the site (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 laws?

- ☐ Yes
 - ☒ No
 - ☐ Unknown
- (if yes please describe)

2. Activity and land use limitations that are in place on the site or that have been filed or recorded in 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 laws?

- ☐ Yes
 - ☒ No
 - ☐ Unknown
- (if yes please describe)

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (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 property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

- ☐ Yes
 - ☒ No
 - ☐ Unknown
- (if yes please describe)

¹ The party seeking to complete an AAI to receive CERCLA liability protection

4. Relationship of the Purchase Price to the Fair Market Value of the *Subject Property* if it were not contaminated (40 CFR 312.29): Does the purchase price or appraised value of the subject property reasonably reflect the fair market value of the *subject property*? 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
☐ No
☒ Unknown

(If you conclude that there is a difference due to contamination please describe)

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 property that you 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*?

Dairy farm

(b) Do you know of specific chemicals that are currently or were present at the *subject property*?

no

(c) Do you know of spills or other chemical releases that have occurred at the *subject property*?

no

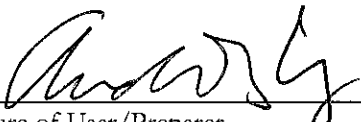
(d) Do you know of any environmental clean-ups that have occurred at the *subject property*?

no

6. The degree of obviousness of the presence or likely presence of contamination at the 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
☒ No
☐ Unknown

(if yes please describe)



Signature of User/Preparer

9/18/17

Date

**TIER I VAPOR ENCROACHMENT SCREENING
QUESTIONNAIRE**

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Site Name: 281 VT Route 15/Former Greensboro Garage

Address: 281 VT Route 15 – Hardwick, VT

Tier 1 VES Questionnaire

<u>Question</u>	<u>Response</u>	<u>Comments</u>
Property Type?		Commercial
Do buildings exist on the subject property?	Yes	One 4,000 sq. ft. Barn and one open air barn/shed
Will buildings be constructed on the subject property in the future?	No	None planned or reported
Do existing/proposed buildings have elevators?	No	
Is there a below grade space in the on-site building(s)?	No	
Is there ventilation in the below grade space?	N/A	
Are there sumps, floor drains, or trenches?	Yes	Floor drain (sealed)
Radon or methane mitigation system installed?	No	
Heating system?	Yes	Forced Hot Air
Type of fuel?		Waste oil furnace/LP gas
Have there been any releases of petroleum or hazardous materials on the subject property?	No	None reported
Does a gas station or dry cleaner operate on the subject property?	No	
Do tenants use hazardous chemicals in large quantities on the subject property?	No	
Have tenants complained about odors in the buildings or experienced health problems associated with the building?	No	
Are the operations on the subject property regulated by OSHA?	Yes	
Are there any existing or former USTs or ASTs on the subject property?	Yes	275- gallon waste oil AST
Are there any sensitive receptors that occupy or will occupy the subject property?	No	



Additional VEC Criteria

<u>Question</u>	<u>Response</u>	<u>Comments</u>
Is the property known to have current or historical contamination?	No	
Is contamination of the subject property suspected?	No	
Is an adjoining property known to have current or historical contamination that may have impacted the subject property?	No	
Is a nearby property known to have current or historical contamination that may have impacted the subject property?	No	
Is regional groundwater contamination known to exist beneath the subject property?	No	
Do any other conditions which may result in vapor intrusion exist on or near the subject property?	No	
Sites within AOC radius of the on-site building for chemicals of concern (0.33 miles)?	0	
Sites within AOC radius of the on-site building for petroleum hydrocarbons (0.1 miles)?	2	Lamoille Valley Ford (SMS#96-2091) Hardwick Wastewater Treatment Plant (SMS#97-2221)

**QUALIFICATIONS OF THE ENVIRONMENTAL
PROFESSIONAL & REPORT PREPARER**

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Robert J. Ross, CGWP

Principal Hydrogeologist

Mr. Ross is a certified ground water professional (CGWP #455) and professional geologist (NH #525) with over 28 years of professional experience in hydrogeologic and environmental consulting. His project experience includes: groundwater contaminant fate and transport studies; expert witness testimony; hydrogeologic investigations at petroleum release sites, industrial facilities, and landfills; design and implementation of contaminant remediation projects; air quality monitoring; CERCLA RI/FA investigations; DNAPL site characterization; groundwater development studies; water resource evaluation; water-supply studies; and environmental assessments for real estate transactions & U.S. EPA Brownfields programs.

Education

University of New Hampshire, B.S., Hydrology, 1983.

University of Waterloo, Diagnosis & Remediation of DNAPL Sites, 1993.

University of Wisconsin, Water Well Hydraulics, Short Course, 1985.

HydroCad Stormwater Modeling Seminar, 2004

Watershed Institute. Center for Water Shed Protection. 2006.

The Remediation Course, Princeton Groundwater, Inc. 2007.

Fundamentals of Groundwater Geochemistry - NGWA, 2010

Contaminant Source Tracking and Age Dating, EOS Alliance, 2011.

Fracture Trace & Lineament Analysis, - NGWA, 2012

OSHA 29 CFR 1910.12040-Hour Hazardous Sites Safety Course, 1984, with current 8-hour refresher training.

Certifications

Certified Ground Water Professional (CGWP), No. 455, 1993.

NAUI SCUBA Diving Instructor, No. 14189, 1992.

Class 3 Water Operator (Vermont), No. 2440

NH Licensed Professional Geologist, No. 525

Homeland Security Clearance -Favorable 5 Year NACI Contractor Suitability Adjudication

American Red Cross First Aid and CPR., 2009/2010

Affiliations

Association of Ground Water Scientists and Engineers (AGWSE)

American Water Works Association (AWWA)

Green Mountain Water Environment Association (GMWEA)

National Association of Underwater Instructors (NAUI)

American Society of Civil Engineers (ASCE)

Lamoille Region Chamber of Commerce (LRCC) - former member Board of Directors

American Society for Testing and Materials (ASTM) International Member

Representative Experience

Environmental Site Assessments and Due Diligence

Mr. Ross has been responsible for conducting and managing environmental site assessments following ASTM guidelines & U.S. EPA All Appropriate Inquiries (AAI) procedures for Transaction Screens, Phase I, and Phase II assessments. Representative projects have included: U.S. EPA Brownfields Assessments, large residential subdivisions, State development projects, agricultural land, industrial facilities, and commercial properties.

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Robert J. Ross, CGWP

Hydrogeologic Investigations

Mr. Ross has been the project manager for numerous hydrogeologic investigations in various geologic settings. He has been responsible for overall project planning; negotiations with State agencies; implementation of field investigations; and report preparation. Field programs involved: installation of multi-level monitor wells in overburden and bedrock formations, discrete interval ground water sampling, vertical profiling of soil vapors, seismic refraction, GPR, and borehole geophysical surveys, in-situ permeability testing, geochemical water quality characterization, and hydrologic budget analyses. He has been the primary author and co-author for numerous technical reports detailing the findings of hydrogeologic site characterizations.

Petroleum Storage Tank Closures and Assessments

Mr. Ross has directed numerous, spill responses, UST closure and hydrogeologic assessments to evaluate potential impacts to the subsurface environment related to petroleum releases. UST closures have involved removal and replacement of tanks as well as in-place closure beneath or adjacent to buildings. Hydrogeologic assessments at AST and UST petroleum release sites have included soil vapor surveys; shallow and deep monitor well installation, collection of soil, surface water, indoor air and ground water samples, geologic characterization, and human health & environmental receptor evaluation. He has also developed Spill Prevention Control and Countermeasure (SPCC) Plans for municipalities, industrial facilities and bulk petroleum storage facilities.

Site Remediation & Restoration

Mr. Ross's experience includes remediation of soil and ground water contaminated with petroleum products and chlorinated industrial solvents. His responsibilities have included defining vertical and lateral extent of contaminant plumes, identifying sensitive receptors, evaluating remedial alternatives, and supervising pilot tests and evaluating pilot test data. Remediation activities have involved free product recovery, soil-vapor extraction (SVE), air sparging, vacuum-enhanced recovery, oxygen injection, ground-water pump and treat, soil removal, land-farming, and replacement of impacted drinking water supplies.

Water Supply Development & Source Protection

Mr. Ross' ground-water resource development experience includes evaluation of hydrologic budgets, fracture trace analyses, geophysical exploration, and pump testing and aquifer analysis. He has developed Source Protection Plans and delineated Well Head Protection Areas for various clients to insure protection of valuable ground water resources and to meet regulatory compliance. Projects have involved review and interpretation of water quality data, identification of potential sources of contamination, and evaluation site-specific hydrogeologic conditions. Various projects have also involved specific recommendations to safeguard future uses and protect ground water resources.

Expert Witness & Litigation Support

Mr. Ross has been an expert witness for cases involving contaminated water supplies, stormwater, insurance claims, illegal dumping, and contaminated industrial sites. He has been responsible for review and critique of third-party reports, independent assessment of project data, and litigation support for depositions and civil trials.



James A. Rose

SR. ENVIRONMENTAL SCIENTIST

Jim is a SR. Environmental Scientist responsible for overall project management, coordination, fieldwork, assessment, analysis, reporting, and continued monitoring related to on going **R.E.A.** projects. His relevant experience includes: clean up of petroleum spills, oversight of underground storage tank closures, site characterization at petroleum release sites, planning and implementation of active site remediation, environmental sampling, routine operation and maintenance for various remediation systems, vapor intrusion and air quality assessments, Environmental Site Assessments at commercial properties, river morphology assessments and surveying using a total station. Jim qualifies as an environmental professional as defined by 40 CFR § 312.10(b).

Education

Johnson State College, B.S. Environmental Science, 2001

Groundwater Pollution and Hydrology Course, - Princeton Groundwater, Inc. 2008

OSHA 10 hour Construction Course - OSHA Training Institute, 2008

Contaminant Vapor Migration Course - Northwest Environmental Training Center, 2009

Vapor Intrusion Pathway: A Practical Guide - The Interstate Technology and Regulatory Council (ITRC), 2010

Environmental Site Assessments for Commercial/Real Estate - VTDEC/ASTM: 2012

LNAPL Science, Management, and Technology - (ITRC), 2012.

Environmental Site Assessments for Commercial Real Estate, ASTM, 2014

OSHA 29 CFR 1910.120 40-Hour Hazardous Sites Safety Course, 2007, Most Recent 8-hour refresher 2016

Certifications

8-hr Permit-Required Confined Space Certification, 2011

American Heart Association First Aid and CPR, 2013

International Code Council (ICC) UST Decommissioning, 2015 (#5319784)

Representative Experience

PETROLEUM SITE MANAGEMENT & REMEDIATION

PCF Site – Johnson, VT

Project Manager for DJ's Corner Store and Deli (SMS Site # 2008-3764)

Jim is the project manager overseeing the site characterization and in-situ remedial activities related to a former abandoned kerosene UST and former gasoline UST system (circa 1970s). Jim managed the operation of a multiphase extraction system to treat petroleum contaminated groundwater and vapors at the site and oversaw the excavation of petroleum contaminated soils. The remedial activities led to the removal of free phase contamination, reduction of subsurface contaminant levels across the site and eventual site closure. Responsibilities included: routine site monitoring, documenting remedial progress, maintenance of the onsite remediation system, groundwater sampling, report preparation and communication with VT DEC site manager, sub-contractors and all interested parties.

PCF Site – Barre, VT

Project Manager for Bellavance Trucking (SMS Site # 1991-1078)

Jim is the project manager for the investigation and monitoring of subsurface petroleum contamination associated with several former bulk gasoline USTs removed from the site. page 1

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James A. Rose

Jim oversaw the planning and implementation of site investigation activities, periodic groundwater and surface water sampling, evaluation of potential remedial alternatives and is responsible for report preparation and communication with VT DEC site manager.

PCF Site – Danville, VT

Project Manager - Danville School AST Spill (SMS Site # 08-574)

Jim led initial spill response activities and was the project manager for the investigation and remediation of a 150-gallon petroleum release from an AST release in the basement of the school that flowed through a floor drain resulting in the impact to subsurface soils. Following initial remedial excavation activities, Jim implemented an initial site investigation and completed free phase product removal and groundwater monitoring at the site until it was closed. Jim continues to provide administrative and technical assistance to the maintenance staff for a variety of environmental compliance matters.

PCF Site – Barton, VT

Project Manager - Former Barton Cleaners (SMS Site # 2004-3228)

Following four years of groundwater monitoring after the discovery of petroleum contamination during a sub-surface site investigation, Jim coordinated the planning and implementation of a remedial action plan involving the removal of over 140 tons of petroleum contaminated soil from the source area. Following the successful implementation of the remedial action plan, Jim completed additional groundwater and indoor air monitoring at the site until the site was closed in late 2008. Jim continued to provide assistance to the current and prospective owners of the site leading to the successful transaction of the property.

MUNICIPAL/TRANSPORTATION PROJECTS

Stormwater Improvement/Contaminated Soil Management - Johnson, VT

Jim served as Project Manager for a joint project between the town, VTRANS, and the VT DEC and provided oversight and field activities related to the management of petroleum contaminated soil and water encountered during the upgrade of streetscape and stormwater infrastructure along Route 15 in Johnson, Vermont. Developed a detailed soil management plan and site-specific health and safety plan. Coordinated the removal and disposal of approximately 200-tons of petroleum contaminated soil and 3,000-gallons of petroleum contaminated water encountered during construction activities. Assisted the Town with successfully obtaining reimbursement for expenses through the VT PCF program.

Waterline Petroleum Contaminated Soil Management - St. Johnsbury, VT

Jim provided oversight for the delineation of suspected areas of petroleum contaminated soils related to several active and closed hazardous waste site in the vicinity of the utility corridors in downtown St. Johnsbury, VT. Responsibilities included historical research, test pitting, soil boring, soil sampling and analysis, site visits to screen soil during utility corridor trenching, reporting and communicating with town officials, construction contractors, engineers and the VT DEC project manager.

VAPOR INTRUSION PROJECTS

Vapor Intrusion Assessment- Manchester, VT

Former Village Valet Dry Cleaning Facility - (SMS Site #2007-3635)

Jim served as Project Manager for a investigation into the extent of a third party impacted by low concentrations of tetrachloroethene (PCE) from a former dry cleaning facility located offsite. Jim completed initial and periodic indoor air sampling activities for two large commercial properties and completed a comprehensive vapor intrusion assessment which consisted of a sub-slab soil gas





James A. Rose

sampling program and pressure test to evaluate potential mitigation alternatives. Additional work included the use of Suma canisters for pre and post mitigation indoor air sampling, GORE sampling modules for subsurface soil gas sampling, follow up reporting, litigation support, review of a state required corrective action plan, coordination with clients, responsible parties, prospective purchasers and the VT DEC.

Vapor Intrusion Assessment - Morrisville, VT

Denoia's Dry Cleaners (SMS Site # 2004-3300)

Jim completed indoor air sampling and support for a third party impacted by low concentrations of tetrachloroethene (PCE) that were related to the adjacent dry cleaning facility. Jim coordinated with client representatives, consultants for the responsible party and the VT DEC in developing a successful mitigation plan for the vacant building which led to building renovations that successfully reduced PCE levels within the indoor to below regulatory standards. Additional work included follow up post mitigation sampling and analysis and ongoing support for the client which led to the restoration and successful sale and reutilization of the property.

ENVIRONMENTAL SITE ASSESSMENTS

Phase I Environmental Site Assessment – Manchester, VT

Jim was the project manager for a Phase I ESA for two large, adjacent, commercial facilities located in downtown Manchester, VT. The Phase I site inspection identified good housekeeping practices and proper hazardous waste storage, but noted the presence of several floor drains and identified several potential preferential pathways related to an ongoing assessment of vapor intrusion impacts related to impacts associated with PCE contamination from a nearby offsite former dry cleaning facility. He worked with the client and VT DEC site manager to develop a corrective action plan, and provided ongoing review of corrective actions, indoor air monitoring and compliance support for the client.

Phase I & II Environmental Site Assessment – Northfield, VT

Jim was the project manager for the Phase I ESA of a 10 acre parcel in north central Vermont situated adjacent to railroad tracks. The parcel was occupied by six separate lease owners, seven separate businesses and over eight significant structures which included a former rail yard engine house, wood manufacturing facility, carwash, and a bulk fuel distribution facility. Jim completed a site inspection and reviewed past and present land use records as well as property ownership information which revealed several active hazardous waste sites associated with some of the current and historical uses of the site. During the Phase I site inspection, former above ground storage tank saddles were observed on the southwest corner of the property. Subsequent findings of the Phase II ESA identified low concentrations of petroleum compounds and PAH's however, no evidence of a significant release was discovered. Jim's ongoing work included subsurface sampling and analysis and documentation of environmental compliance activities required for site closure. Additional work resulted in the closure of all active site files and cleared the way for a successful subdivision, renovation, and rehabilitation of several lots/structures located on the property.

Phase I & II Environmental Site Assessment – North Woodstock, NH

Jim was the project manager for the Phase I ESA of a commercial property in northern NH which identified several recognized environmental conditions (RECs) that warranted further investigation. Subsequent findings of the Phase II ESA identified low concentrations of PAH's beneath the paved parking lot of the property. He presented data to the NH DES on behalf of the client, which resulted in additional sub-surface investigation and delineation of identified contamination. Additional work resulted in the closure of the site file and successful transaction of the property.

*Jim has completed over 20 phase I and II environmental site assessments at residential, commercial and industrial properties throughout Vermont and New Hampshire and qualifies as an environmental professional as defined by 40 CFR § 312.10(b).



James A. Rose

Phase I Environmental Site Assessment - St. Johnsbury, VT

Jim was the project manager for the Phase I ESA of a commercial property occupied by a printing and design company. The Phase I site inspection identified general poor housekeeping practices, improper storage and labeling of hazardous waste and floor drains in the printing area that were connected to the municipal wastewater system. He developed a plan to seal the floor drains, advised the client in general compliance matters and assisted the client in coordinating the VT DEC small business compliance center.

UST MANAGEMENT AND CLOSURE ASSESSMENTS

UST Closure – Poultney, VT

Jim oversaw the removal of a 30,000-gallon UST within the footprint of a multimillion dollar biomass facility development project. The UST did not release fuel oil into the sub-surface but diligent field work led to the discovery of a significant area of petroleum contaminated soil in the footprint of the planned construction which was related to the former heating system a formerly closed hazardous waste site file. Jim coordinated with the client, construction company, and the VT DEC in removing over 1,450 tons of petroleum contaminated soil for thermal destruction and the treatment of over 145,000 gallons of petroleum contaminated water. He successfully documented past and present site activities and petitioned the VT DEC to provide financial assistance for remedial expenses. Additional work included additional sub-surface investigation and groundwater monitoring and led to the successful on time construction of the biomass facility and eventual site closure.

UST Closure - Bridgewater, NH

Jim was the project manager for the removal of two 10,000-gallon gasoline USTs at commercial gas station located in central NH. He coordinated the removal activities for each UST with the property owner, tenants, subcontractors, and NH DES. Jim also worked to characterize the degree and extent of petroleum contamination at the site and developed assisted with the disposal of petroleum contaminated soil. His responsibilities included management of excavation and drilling contractors, coordination of waste disposal, groundwater and soil sampling, reporting and communication with the NH DES project manager.

*Jim has provided oversight during the removal of over 40 Underground Storage Tanks at residential, commercial and industrial properties throughout Vermont and New Hampshire.

SPILL ASSESSMENTS AND CLEANUP

Residential Site - Morrisville, VT

Jim was contacted to respond to a heating oil release from a failed AST system which resulted in the release of over 200-gallons of fuel oil. Jim provided oversight during the capture of free-phase fuel oil that impacted the perimeter drain system and flowed into the onsite pond and excavation of petroleum contaminated soil (PCS). Following the initial response, Jim developed a long term plan to treat and monitor indoor air impacts employing an in-situ soil venting system. The PCS was subsequently used at a local landfill as daily cover.

PCF Site - Johnson, VT

Project Manager – Former Rod & Sons AST spill (WMD# 2009-029)

Jim oversaw all initial spill response and source removal excavation activities for a 300-gallon kerosene release at a bulk petroleum facility. Jim completed overall project management activities in addition to planning, implementation, and evaluation of all site investigation, characterization, and groundwater monitoring activities.

*Jim has provided oversight for over 20 state listed petroleum spills at residential, commercial and industrial properties throughout Vermont and New Hampshire