PERIODIC REVIEW REPORT
Year 2018

BEEKMAN HIGHWAY GARAGE
4 Main Street, Hamlet of Poughquag, New York

NYSDEC Site #3-14-094

PREPARED FOR:

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#560581

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1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) was prepared according to the requirements of the Site Management Plan (SMP) for the Town of Beekman Highway Garage (hereinafter referred to as the "Site") located on Town property at the intersection of County Route 7 and Gardner Hollow Road in the Hamlet of Poughquag, Town of Beekman, Dutchess County, New York (Figure 1). The completed NYSDEC Institutional and Engineering Controls Certification Form is included as Appendix A.

The Town Highway Garage is listed as NYSDEC Site #3-14-094. Past operations at the Site resulted in contamination of local groundwater. Monitoring of groundwater and indoor air quality has been conducted by Conrad Geoscience and PVE, LLC. since 2001 in accordance with the State-approved Site Management Plan (SMP).

This PRR was prepared to document the ongoing inspections and monitoring activities that have been completed during the reporting period from April 2015 to July 2018 following the remediation work documented in the Final Engineering Report (FER). These activities include:

- Annual groundwater monitoring between September 2017 and December 2017;
- Annual indoor air monitoring between February 2016 and February 2018;
- Quarterly Engineered Control, Institutional Control, and Site Management Inspections completed on a quarterly basis between 2015 and 2018.

The ongoing monitoring and inspections have shown that the engineering controls continue to perform as designed and the requirements described in the environmental easement and the SMP have been met.

2.0 SITE OVERVIEW

2.1 Location and Description

The Town of Beekman Highway Garage inactive hazardous waste disposal site is located on Town of Beekman Highway Department property at the intersection of County Route 7 and Gardner Hollow Road in the Hamlet of Poughquag, Town of Beekman, Dutchess County, New York (Figure 1). The site is situated in the north-central part of the 10-acre Town property. Selected site features are shown in Figure 2.

A list of all investigation and remediation reports is listed below in chronological order:

- Preliminary Site Assessment (PSA) – May 1996
- Order on Consent – July, 1997
- Remedial Investigation (RI) – March 1998
- Focused Feasibility Study (FFS) – March 1999
- Proposed Remedial Action Plan (PRAP) – February 1999
- Record of Decision (ROD) – November 1999
- Soil Remediation Report – April 2001
- Site Management Plan (SMP) – June 2010; Revised May 2013 and February 2018

A Certificate of Completion was issued by NYSDEC on May 20, 2014.

2.2 Summary of Remedial Investigation Findings

Between June and December 1997, the Town of Beekman conducted a Remedial Investigation (RI) to identify the sources of solvent contamination on Town premises so that appropriate remedial actions could be selected.

2.2.1 Groundwater

The RI report, dated March 1998, confirmed that two overlapping plumes of dissolved solvents, originating from three separate areas at the site are present. The chlorinated solvent 1,1,1-trichloroethane (TCA) was originally discharged near the western end of the Highway pole barn. The chlorinated solvent perchloroethylene (PCE) was originally discharged near the northeastern corner of the pole barn. From these discharge locations, dissolved solvents were carried southward with the flow of groundwater. Other dissolved constituents, including BTEX compounds (benzene, toluene, ethylbenzene & xylene), originating from previously removed underground storage tanks (USTs) also conform to this same general pattern.

2.2.2 Soil

Soil borings in the former gasoline and diesel tank area near the east end of the Highway salt shed revealed petroleum-contaminated soil, presumably from tank leakage prior to removal of the USTs near the eastern end of the salt shed in 1989 and 1993. According to the Focused Feasibility Study (FFS) report (1999), approximately 410 yd^3 of petroleum-contaminated soil were present in the former underground storage tank USTs in this area. The depth of contamination ranged from 3 to 14 feet below ground surface beneath an area covering approximately 1,100 ft^2. No undissolved product was

observed during soil removal. No VOCs were detected in any of the 15 sidewall post-excavation samples at concentrations exceeding recommended soil cleanup objectives. Only one of the seven floor samples contained VOCs at concentrations exceeding recommended soil cleanup objectives. The Soil Remediation Report (April, 2001) contains tables that include all post excavation soil data. In 1992, the chlorinated solvent TCA, PCE and other volatile organic compounds (VOCs) were detected in residential wells down-gradient from the Site. The solvent plume was known to extend approximately 1,100 to 1,200 feet into the Hamlet south of the Highway garage.

2.2.3 Vapor

In March 2006, Conrad Geoscience Corp. conducted sub-slab vapor and indoor air sampling at the site. PCE and trichloroethene (TCE) were present in both sub-slab vapor and indoor air samples, indicating that a vapor intrusion condition exists on Highway Garage property. Both compounds were found in groundwater on site as well as in products used in the automotive maintenance sections of the garage. According to New York State Department of Health (NYSDOH) guidance documents, mitigation of PCE and TCE vapors was required at five locations: Sheriff Substation office, Highway Superintendent office, former Alamo Ambulance substation, Pole Barn garage, and Block Garage (Figure 2).

2.3 Summary of Remedial Action

The site was remediated in accordance with the NYSDEC-approved Remedial Action Plan dated June 2000 and Vapor Intrusion Mitigation Workplan, dated November 2006. Following, is a summary of the Remedial Actions performed at the site:

1. In December 2000, Conrad Geoscience Corp. supervised the excavation, stockpiling, and disposal of approximately 650 yd^3 (1,011 tons) of contaminated soil from the former UST locations. The exact orientation of the former USTs are not precisely known, but are presumed to have been situated within the December 2000 excavation footprint. Contaminated soil was transported off-site, thermally treated and recycled. The excavation measured approximately 1,500 square feet and averaged 11 feet in depth.

2. The excavation was backfilled to grade with clean soil and repaved.

3. Based on diagnostic testing in the pole barn and block garage buildings, it was determined that, installation of an active sub-slab depressurization system (SSDS) in each building affected would effectively mitigate exposure to soil vapor intrusion. SSDSs were installed in 2007 and 2008. Details of these systems and their installation are included in the Site Management Plan.

4. Remedial activities were completed at the site in June, 2008.

3.0 PERFORMANCE EVALUATION

The remedial actions were designed to achieve site specific remediation objectives. These include:

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent ingestion/direct contact with contaminated soils.
- Prevent migration of contaminants that would result in groundwater or surface water impacts.
- Prevent exposure to contaminated vapors.

The engineered and institutional controls in place at the site continue to be effective in achieving the site specific remediation goals.

An institutional control, in the form of an environmental deed restriction has been put in place to restrict the Site to commercial or industrial uses and restrict activities at the Site, including use of groundwater without proper treatment.

Ingestion/direct contact with contaminated soils has been prevented through the installation and maintenance of a composite cover, consisting of the on-site buildings, gravel and asphalt driveway and parking lots.

Migration of contaminated vapors from beneath the cap into indoor air is prevented by the operation of a sub-slab depressurization system in both the Block Garage, Pole Barn, and Sherriff Substation.

4.0 Institutional Controls / Engineering Controls Compliance Report

4.1 Engineering Controls

Because some contamination remained after completion of remedial actions, Engineering Controls were incorporated into the site remedy to prevent future vapor intrusion and to monitor the natural attenuation of groundwater contaminants in order to ensure protection of public health and the environment. The following Engineering Controls were implemented as per the SMP:

1. A cover system consisting of asphalt pavement is in place covering the area of excavated soil.
2. Sub-slab depressurization systems are in place in the Sheriff's Substation, Block Garage, and Pole Barn.
3. Natural attenuation of groundwater contaminants.

4.1.1 Soil Cover System

A cover system was placed over the area in which petroleum hydrocarbon soil was excavated at the site. This cover system is comprised of approximately 1,500 square feet of asphalt pavement with an average clean fill depth of 11 feet.

If the type of cover system changes from that which exists prior to the excavation (i.e., the current asphalt cover is replaced by a tarp), this will constitute a modification of the cover element of the remedy. Any changes made must be made per the requirements of the SMP, and a figure showing the modified surface included in this report and in any updates to the SMP.

4.1.2 Sub-slab Depressurization Systems

Mitigation of soil vapors (elevated PCE and TCE) are required at five locations on site: Sheriff's Substation office, Highway Superintendent's office, former Ambulance Substation, Pole Barn garage, and Block Garage.

The three SSDSs installed at the Sheriff's Substation, Block Garage, and Pole Barn were activated in June 2008. The objective of each SSDS is to prevent vapor contaminants from penetrating the concrete floor slab and entering the indoor airspace of each building by lowering the pressure beneath the slab.

The long-term vapor intrusion monitoring program, as described in the SMP, includes quarterly inspections of the SSDSs and annual collection and analysis (during the heating season) of indoor air samples from two indoor locations (one from the Sheriff's Substation Office, the other from the Highway Superintendent's Office located inside the Pole Barn).

4.1.3 Natural Attenuation of Groundwater

The Record of Decision (ROD) indicates that contaminants in soil and groundwater on the Town site have resulted in a significant threat to human health and the environment. Accordingly, the ROD includes requirements for long-term groundwater monitoring of migration and attenuation of the contaminant plume over time.

Groundwater monitoring activities to assess the natural attenuation of contaminants at the site will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic over an extended period.

The long-term groundwater monitoring program, as set forth in the SMP, includes annual collection and analysis (during the 2nd or 3rd quarter) of water samples from two on-site monitoring wells (MW-4 and MW-17).

4.2 Institutional Controls

A series of Institutional Controls are required under the SMP to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to contaminated soil by controlling disturbances of the subsurface; (3) limit the use and development of the Site to commercial uses only. Adherence to these Institutional Controls on the Site is required by the Environmental Deed Restriction and will be implemented under the SMP. The Site is a Controlled Property subject to the Environmental Deed Restriction. The Site is also referred to in this section as the "Controlled Property". These Institutional Controls must adhere to the following conditions:

- Compliance with the Environmental Deed Restriction and the SMP must be maintained by the Grantor and the Grantor's successors and assigns.
- All Engineering Controls must be operated and maintained as specified in the SMP.
- All Engineering Controls on the Controlled Property (the Site) must be inspected at a frequency and in a manner defined in the SMP.
- Groundwater and Vapor monitoring must be performed as defined in the SMP.
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.

Institutional Controls identified in the Environmental Deed Restriction may not be discontinued without an amendment to or extinguishment of the Environmental Deed Restriction.

The Site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Deed Restriction. Site restrictions that apply to the Controlled Property are:

- The Controlled Property may only be used for commercial and industrial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed.
- The Controlled Property may not be used for a higher level of use, such as unrestricted, residential, or restricted residential use without additional remediation and amendment of the Environmental Deed Restriction, as approved by the NYSDEC.

- All future activities on the Controlled Property that will disturb remaining contaminated material must be conducted in accordance with the SMP.

- The use of the groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for intended use.

- Vegetable gardens and farming on the Controlled Property are prohibited.

- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

4.3 IC/EC Certification

The Institutional Control/Engineering Control certification signed by a Qualified Environmental Professional (QEP) is included in Appendix A.

5.0 MONITORING PLAN COMPLIANCE REPORT

The SMP requires the following periodic monitoring program:

Monitoring Program	Monitoring Frequency	Matrix	Analysis
Groundwater Monitoring	Triennially	Groundwater	TCL VOCs
Vapor Intrusion Monitoring	Discontinued	Air	Discontinued
Site Wide Inspection/ Cover System and SSDS Monitoring	Quarterly	N/A	N/A

5.1 Groundwater Monitoring

As per the Monitoring Plan (see Section 3 of the SMP) monitoring wells MW-3, MW-4, MW-5, MW-8, MW-17 and MW-18S were to be sampled annually, in the 2nd or 3rd quarter of the year.

On October 27, 2016, PVE submitted a request to NYSDEC to discontinue groundwater monitoring at the subject site. On January 6, 2016, NYSDEC issued a letter to PVE supporting a reduction in groundwater monitoring locations and frequency. The Department was supportive of terminating groundwater monitoring at all existing monitoring wells except for well MW-4 in the core of the plume and down-gradient well MW-17. The Department's policy (CP-43) requires that all groundwater monitoring wells must be properly decommissioned when their effective life has been reached. The Department was also supportive of a reduction in frequency to once every three years beginning from the most recent round of sampling (September 2014).

5.1.1 Annual Groundwater Sample Collection

Monitoring Well MW-4 was sampled on September 22, 2017 (See Figure 2). During the September 22, 2017 sampling event, MW-17 was unable to be located due to asphalt and storm-related debris covering the area. Additionally, dissolved oxygen readings within MW-4 were inconsistent with previous readings. On October 13, 2017, PVE returned to re-sample MW-4 with a repaired water quality meter. On December 1, 2017, monitoring well MW-17 was sampled after locating the well. PVE purged each monitoring well following USEPA protocol for low-flow (minimal draw-down) groundwater sampling until physical parameters stabilized. Water quality parameters were monitored using an In-Situ® Troll 9500 water quality meter. Groundwater sampling logs are included in Appendix B. Water samples were collected from Monitoring Wells MW-4 and MW-17 using a peristaltic pump and dedicated polyethylene tubing and dispensed into laboratory provided containers.

Samples were submitted to EnviroTest Laboratories, Inc., a NYSDOH-certified laboratory, for analysis of VOCs via USEPA Method 524.2. A field blank was prepared in the field and analyzed for volatile organic compounds (VOCs). One trip blank was prepared at the laboratory and traveled with sample containers for analysis of VOCs upon receipt of all field samples. All samples were labeled, packed on ice, and delivered via laboratory courier.

5.1.2 Annual Depth-to-Groundwater Monitoring

Depth-to-water measurements were collected on July 17, 2018 to the nearest hundredth of a foot from the top of each well casing and a groundwater contour map was prepared (Figure 3). In previous reports, depth-to-water elevations from MW-4 and MW-8 were omitted because the top-of-casing elevation for Monitoring Well MW-4 was altered after modifying the well completion and casing several years ago. Depth-to-groundwater elevations from Monitoring Well MW-8 are historically higher than surrounding wells which, when plotted, result in a contour map which is not representative of site conditions. The top-of-casing elevations for Monitoring Wells MW-4 and MW-8 were resurveyed in an attempt to rectify issues with plotting elevation data. Elevations were included in the revised contour map (Figure 3).

Depth-to-groundwater measurements and corresponding elevations indicate groundwater flows in a southwesterly direction, and is consistent with previously collected depth-to-groundwater measurements. A groundwater contour map depicting groundwater depth and flow direction (Figure 3).

5.1.4 Annual Groundwater Sample Results

One or more VOCs were present above the MDL in both monitoring wells sampled in September to December 2017. PCE was detected in both monitoring wells sampled, one of which at a concentration exceeding NYSDEC groundwater standards: MW-4 (10.0 µg/L). A summary of results by well follows:

- MW-4: PCE (10.0 µg/L).
- MW-17: No VOCs exceeding Class GA groundwater standards.

Target compounds detected in groundwater from on-site monitoring wells are summarized in Table 1. Table 2 provides a comparison of sample results from previous years. Table 3 provides a comparison of PCE, Methyl-tert-Butyl Ether (MTBE), and Total VOCs in MW-4 since well installation. Copies of laboratory reports from the most recent sampling event are attached in Appendix C.

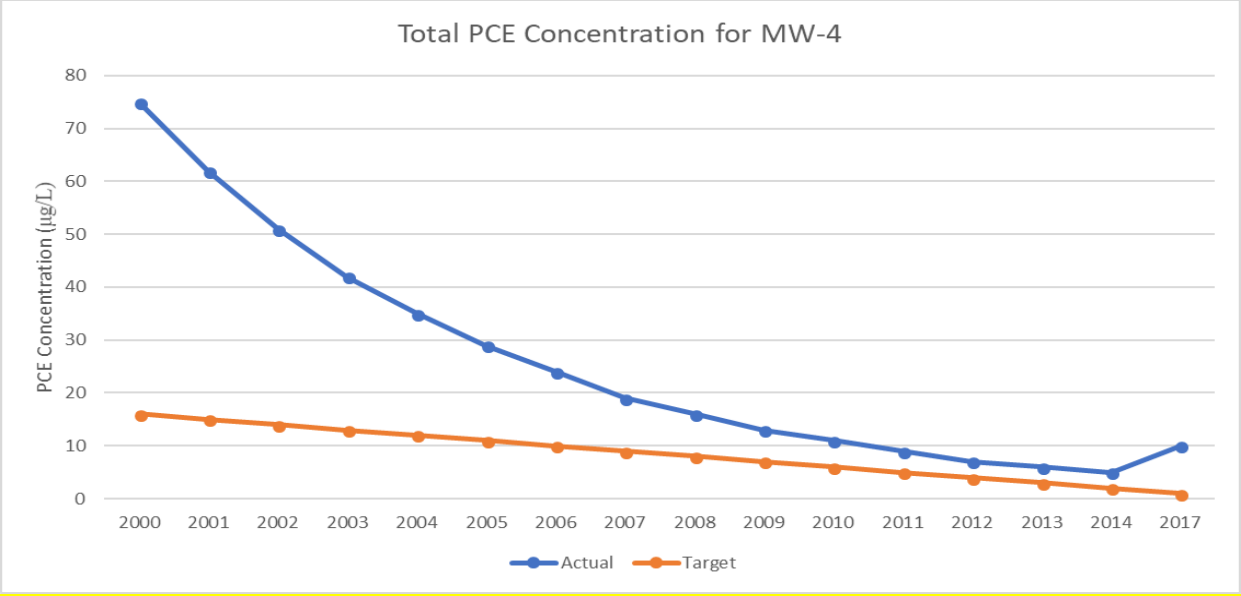
5.1.3 Groundwater - Long-Term Trend Analysis

The following table shows a set of groundwater cleanup objectives established in the SMP:

Year		*MW-18S PCE (ug/l)*	*MW-18S Total VOCs (ug/l)*	*MW-4 PCE (ug/l)*	*MW-5 Total VOCs (ug/l)*
1	2000	326	311	75	142
2	2001	242	287	62	139
3	2002	179	264	51	135
4	2003	133	244	42	132
5	2004	99	225	35	129

6	2005	73	207	29	126
7	2006	54	191	24	122
8	2007	40	176	19	119
9	2008	30	163	16	116
Year		***MW-18S PCE (ug/l)***	***MW-18S Total VOCs (ug/l)***	***MW-4 PCE (ug/l)***	***MW-5 Total VOCs (ug/l)***
10	2009	22	150	13	113
11	2010	16	138	11	110
12	2011	12	128	9	108
13	2012	9	118	7	105
14	2013	7	108	6	103
15	2014	5	100	5	100
16	2017	DISCONTINUED	DISCONTINUED	10	DISCONTINUED

A comparison of actual sample results in MW-4 to these groundwater standards is summarized in Graph 1 below:



Graph 1: Perchloroethylene (PCE) Results for MW-4 Compared to Target Concentrations; 2001 – 2017.

5.2 Sub-Slab Vapor and Indoor Air Quality Monitoring

In accordance with the Monitoring Plan (Section 3 of the SMP), the SSDSs were inspected quarterly to ensure they were functioning properly, and indoor air samples were collected annually from the Sheriff's Substation and Highway Superintendants office up to 2017 (see Figure 2).

5.2.1 Quarterly SSDS inspections

PVE conducted inspections of the SSDS in accordance with the NYSDEC-approved SMP in May 2015, September 2015, October 2015, February 2016, April 2016, September 2016, November 2016, February 2017, April 2017, September 2017, December 2017, February 2018 and April 2018. Inspections consisted of visually analyzing the piping system for structural integrity, verification of fan functionality, and collecting readings from the U-tube manometers and recording them in a vapor mitigation operation and maintenance inspection form (see Appendix D).

During inspections, readings from the SSDS manometers indicated that the systems were working properly. Readings of SSDS manometers during this latest reporting period are summarized below:

Date	Sampling Location				
	Sherriff's Substation	Block Garage (North)	Block Garage (South)	Pole Barn (East)	Pole Barn (West)
05-18-15	-1.5"	-1.7"	-1.35"	-0.75"	-1.25"
09-01-15	-1.675"	-1.675"	-1.375"	-0.675"	-1.125"
10-21-15	-1.5"	-1.5"	-1.25"	-0.675	-1.15"
02-09-16	-1.5"	-1.52"	-1.25"	Offline	-1.0"
04-19-16	-1.5"**	-1.5"	-1.3"	-1.0"**	-1.0"
09-14-16	-1.75"	-1.5"	-1.25"	-1.0"	-1.0"
11-16-16	-1.5"	-1.5"	-1.25"	-1.0"	-1.0"
02-16-17	-1.75"	-1.45"	-1.50"	-1.0"	-2.0"
04-11-17	-1.675"	-1.45"	-1.25"	-1.125"	-2.0"
09-21-17	-1.5"	-1.5"	-1.25"	-1.0"	-2.0"
12-12-17	-1.45"	-1.20"	-1.0"	-1.0"	-1.75"
02-07-18	-1.25"	-0.9"	-1.0"	-1.15"	-1.75"

04-26-18	-1.25”	-0.9”	-1.0”	-1.15”	-1.75”

Notes:
Readings measured in inches of water column;
NS = Not Sampled;
* New U-tube manometer installed at North Block Garage with 1/10” tick marks
** Fan replaced on 4/19/2016

A table showing historic manometer readings collected from January 2009 to present is included as Table 4.

5.2.2 Annual Indoor Air Quality Monitoring

On March 7, 2016, April 19, 2016, and February 16, 2017, PVE collected ambient indoor air samples from the Sheriff’s Substation Office and Highway Superintendent’s Office in accordance with the NYSDEC-approved SMP. Samples were collected using a flow controller, set to collect the sample over a 24-hour period, connected to a 1-liter summa canister. At the completion of sample collection, summa canisters were shipped via overnight delivery to Centek Laboratories in Syracuse, New York, a NYSDOH-certified laboratory. Samples were analyzed for volatile organic compounds (VOCs) via USEPA Method TO-15. Sample numbers were as follows:

Location	**Sample ID**
Sheriff’s Substation Office	IA-1
Highway Superintendent’s Office	IA-2

5.2.3 Annual Indoor Air Quality Sample Results

VOCs detected in indoor samples are within the range of commonly detected indoor air conditions according to the NYSDOH "Study of Volatile Organic Compounds in Air of Fuel Oil Heated Homes, 1997-2003" referenced as Table C.1 in the October 2006 "Guidance for Evaluating Soil Vapor Intrusion in the State of New York". Indoor air sample results are summarized as follows:

February 9, 2016
- IA-1: PCE (1.3 µg/m^3).
  TCE (4.0 µg/m^3).

March 7, 2016
- IA-1: PCE (12 µg/m^3).
  TCE (12 µg/m^3).

April 19, 2016
- IA-1: PCE (0.68 µg/m^3).
  TCE (0.27 µg/m^3).
- IA-2: PCE (1.5 µg/m^3).

February 6, 2017
- IA-1: PCE (4.7 µg/m^3).
  TCE (0.59 µg/m^3).
- IA-2: PCE (4.7 µg/m^3).

Indoor air sample results are summarized in Table 5. Laboratory reports are attached in Appendix C. In accordance with NYSDEC and NYSDOH requirements, and following comment by these departments, these results were posted in the Sheriff's Substation and the Highway Garage offices.

5.2.4 Indoor Air Quality - Long-Term Trend Analysis

Collection of sub-slab vapor samples is not required by NYSDEC and NYSDOH, therefore these results are compared to the Indoor Air Concentrations provided in the NYSDOH guidance document. Currently, sub-slab depressurization systems are in place in each building preventing vapors from accumulating beneath the slab. Chlorinated solvents and petroleum hydrocarbons are ingredients in materials commonly used in normal operation of Highway Department equipment.

The following table compares the 2017 indoor air data to the 2015-2016 indoor air data for compounds that are included in the NYSDOH guidance matrices. All sampling events occurred while sub-slab depressurization systems were operating in the Sheriff Substation, Pole Barn, and Block Garage.

Location	Date	Carbon Tetrachloride (<0.25)*	Trichloro-ethene (<0.25)*	Vinyl Chloride (<0.25)*	Tetrachloro-ethene (<3.0)*	1,1,1-Tri-chloroethane (<3.0)*	1,1-Di-chloroethene (<3.0)*	Cis-1,2-Di-chloroethene (<3.0)*
IA-1	2-23-15	ND<0.94	1.6	ND<0.38	ND<1.0	ND<0.82	ND<0.59	ND<0.59
	2-9-16	0.63	4	ND<0.10	1.3	ND<0.82	ND<0.59	ND<0.59
	3-7-16	ND<0.94	12	ND<0.38	12	ND<0.82	ND<0.59	ND<0.59
	4-19-16	0.38	0.27	ND<0.38	0.68	ND<0.82	ND<0.59	ND<0.59
	2-6-17	ND<0.94	0.59	ND<0.38	4.7	ND<0.82	ND<0.59	ND<0.59
IA-2	2-23-15	ND<0.94	ND<0.81	ND<0.38	1.6	ND<0.82	ND<0.59	ND<0.59
	4-19-16	0.69	0.86	ND<0.10	1.5	ND<0.82	ND<0.59	ND<0.59
	2-6-17	ND<0.94	ND<0.81	ND<0.38	4.7	ND<0.82	ND<0.59	ND<0.59

*Indoor air concentration in ug/m3 for which "no further action" is required, dependent on sub-slab concentrations. From October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

VOCs detected in indoor samples are within the range of commonly detected indoor air conditions according to the NYSDOH "Study of Volatile Organic Compounds in Air of Fuel Oil Heated Homes, 1997-2003" referenced as Table C.1 in the October 2006 "Guidance for Evaluating Soil Vapor Intrusion in the State of New York.". Current activities in these buildings, including petroleum storage and truck and equipment maintenance, explain the presence of these compounds in indoor air.

The New York State Department of Health (NYSDOH) reviewed the 2017 Vapor Intrusion Sampling Results dated April 10, 2017. Based on the review of all indoor air sampling results, in conjunction with the groundwater sampling results and given the remedial actions conducted at the Site, the NYSDOH determined the annual indoor air sampling is no longer necessary as of July 5, 2017. It was

recommended that the sub-slab depressurization systems installed on the buildings continue to operate and manometer readings be submitted to the State on an annual basis.

5.2.5 Site-Wide Inspection/Cover System Monitoring

The SMP requires a Site-wide inspection to be performed on a regular schedule at a minimum of once a quarter. Site-wide inspections are also required after all severe weather conditions that may affect Engineering Controls or monitoring devices. The purpose of the Site-wide inspection is to assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling; and
- Confirm that site records are up to date.

Quarterly inspections were completed in May 2015, September 2015, October 2015, February 2016, April 2016, September 2016, November 2016, February 2017, April 2017, September 2017, December 2017, February 2018 and April 2018, during which site conditions were deemed to satisfy the standards listed above.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Groundwater Monitoring

Based upon the results from groundwater samples collected in 2017 and comparison of sample results to groundwater cleanup objectives, the following conclusions can be drawn:

1. The concentration of PCE in Monitoring Well MW-4 (10 µg/L) exceeded the 2017 cleanup objective of 4 µg/L. PCE decreased from 17 µg/L in the 2014 monitoring event to 10 µg/L in the 2017 monitoring event.

2. The concentration of PCE in Monitoring Well MW-17 (0.52 µg/L) does not exceed Class GA groundwater standards. Total VOC concentrations remained stable with 11 µg/L detected in both the 2013 and 2014 monitoring events.

The groundwater sample results indicate that solvent concentrations are in exceedance of groundwater cleanup objectives established in the SMP. However, overall impacts are generally minimal, and based upon long-term analytical data, groundwater attenuation has successfully reduced groundwater contaminant concentration levels at the site.

On January 6, 2016, NYSDEC issued a letter to PVE supporting a reduction in groundwater monitoring locations and frequency. The Department was supportive of terminating groundwater monitoring at all existing monitoring wells except for well MW-4 in the core of the contaminant plume and down-gradient well MW-17.

6.2 Sub-Slab Vapor and Indoor Air Quality Monitoring

Based upon the results from indoor air samples collected in 2015, the following conclusions can be drawn:

1. The concentration of TCE (0.59 µg/m3) in the Sheriff's Substation Office (IA-1) exceeded the NYSDOH guidance criteria of 0.25 µg/m3. In accordance with the NYSDOH guidance documents, the recommended action is to take reasonable and practical actions to identify source(s) and reduce exposures.

2. The concentration of PCE (4.7 µg/m3) in the Highway Superintendent's Office (IA-2) exceeded the NYSDOH guidance criteria of 3 µg/m3. In accordance with the NYSDOH guidance documents, the recommended action is to take reasonable and practical actions to identify source(s) and reduce exposures.

The indoor air quality sample results indicate that solvent concentrations exceed NYSDOH guidance criteria. However, overall impacts are generally minimal, and based upon long-term analytical data, natural attenuation and the active SSDS have successfully reduced indoor air contaminant concentration levels at the site.

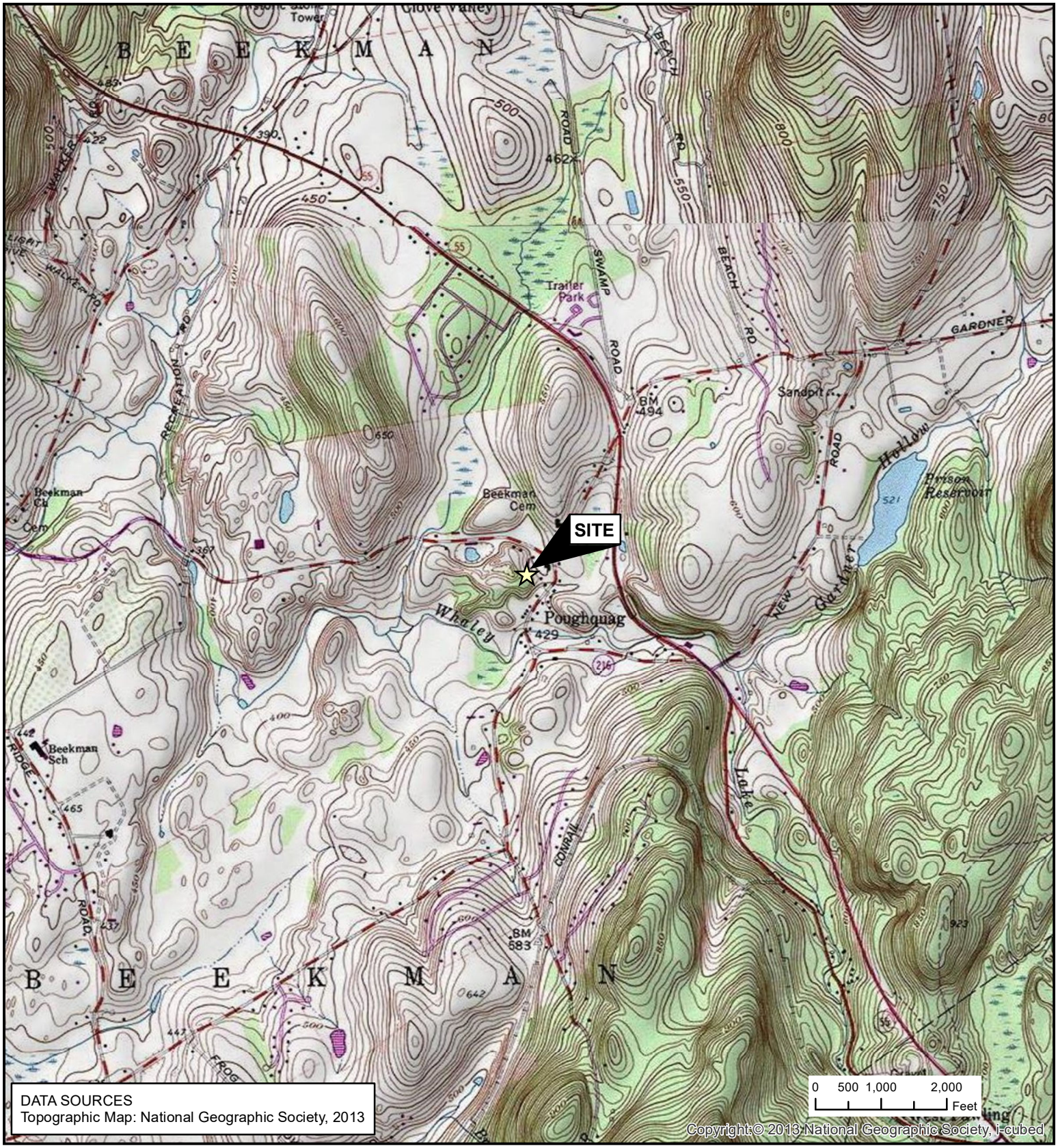
The New York State Department of Health (NYSDOH) reviewed the 2017 Vapor Intrusion Sampling Results dated April 10, 2017. Based on the review of all indoor air sampling results, in conjunction with

the groundwater sampling results and given the remedial actions conducted at the Site, the NYSDOH determined the annual indoor air sampling is no longer necessary as of July 5, 2017. It was recommended that the sub-slab depressurization systems installed on the buildings continue to operate and manometer readings be submitted to the State on an annual basis.

6.3 Overall Recommendations

The attached certification statement attests to the accuracy and completeness of the information contained herein. If you have any questions, please do not hesitate to contact me. Please contact me with any comments or questions.

Figure 1 – Site Location Map



SITE LOCATION MAP

BEEKMAN HIGHWAY GARAGE
TOWN OF BEEKMAN, DUTCHESS COUNTY, NEW YORK

PVE

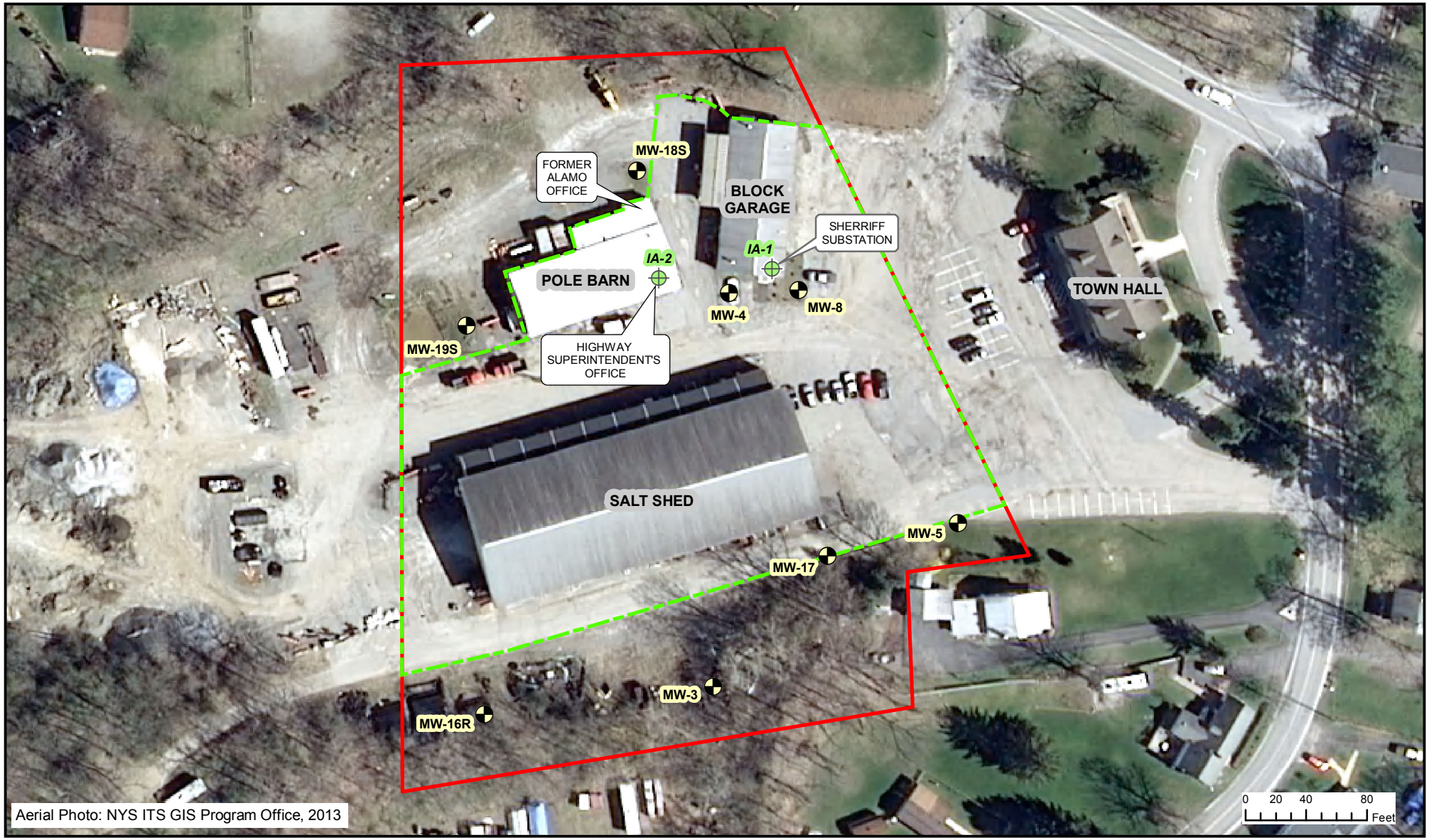
48 Springside Avenue
Poughkeepsie, New York 12603
Phone: (845) 454-2544
Fax: (845) 454-2655

FIGURE 1

DATE:	2/16/2017
SCALE:	As Indicated
PROJECT NUMBER:	560581

ALL LOCATIONS APPROXIMATE

Figure 2 – Selected Site Features Map



Legend

- Monitoring Well Location
- Indoor Air Sample Location
- Composite Site Wide Cover
- Deed Restriction Boundary

1 inch = 90 feet

SELECTED SITE FEATURES AND SAMPLE LOCATIONS

BEEKMAN HIGHWAY GARAGE
TOWN OF BEEKMAN, DUTCHESS COUNTY, NEW YORK

48 Springside Aveneue
Poughkeepsie, New York 12603
Phone: (845) 454-2544
Fax: (845) 454-2655

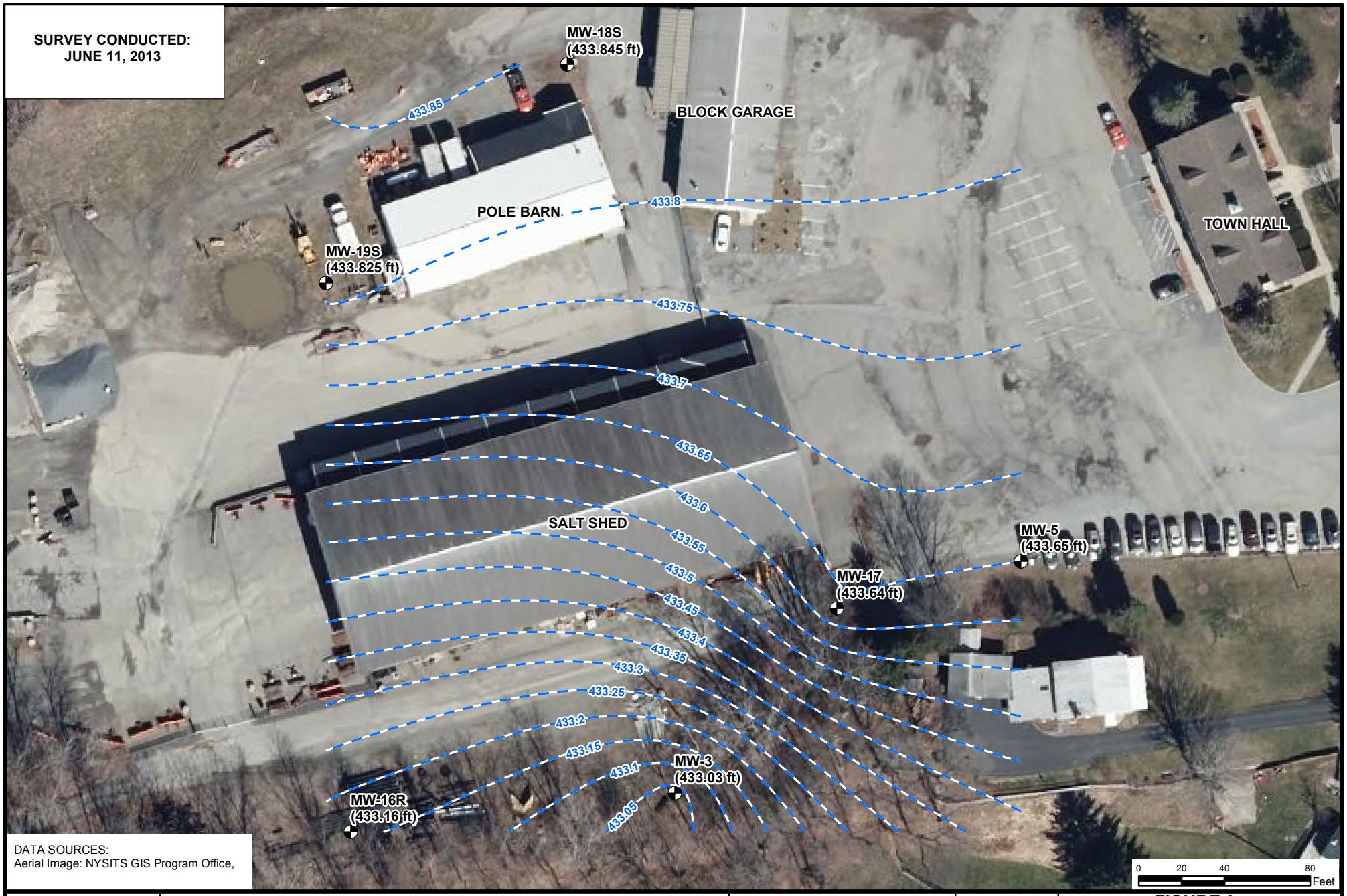
FIGURE 2

DATE:	8/21/2018
SCALE:	As Indicated
PROJECT NUMBER:	560581

ALL LOCATIONS APPROXIMATE

Figure 3 – Groundwater Contour Map – All Wells

SURVEY CONDUCTED:
JUNE 11, 2013



DATA SOURCES:
Aerial Image: NYSITS GIS Program Office,

PVE
48 Springside Avenue
Poughkeepsie, NY 12603
Office: 845.454.2544
Fax: 845.454.2655

GROUNDWATER CONTOUR MAP
Wells Completed in Unconsolidated Sediment

BEEKMAN HIGHWAY GARAGE
TOWN OF BEEKMAN, DUTCHESS COUNTY, NEW YORK

LEGEND
- GW MONITORING WELL
- GW CONTOUR LINE (0.25 FT)

PROJECT NO. 560581

FIGURE 3

DATE: 7/23/2018

SCALE: AS INDICATED

PROJECTION: NAD83 STATE PLANE NY EAST

ALL LOCATIONS APPROXIMATE

Table 1 – Groundwater: Analytical Data

Table 1. **Volatile Organic Compounds (VOCs) in On-Site Monitoring Well Groundwater Samples;** USEPA Method 524.2; collected **September 22, 2017; October 13, 2017 and December 1, 2017**, Beekman Highway Garage, Town of Beekman, New York
PVE Sheffler File #560581

					Date Sampled			9/22/2017			10/13/2017			12/1/2017		
					Location			MW-4			MW-4			MW-17		
					Sample ID			MW-4 20170922			MW-4 20171013			MW-17 20171201		
Method	Analyte	CAS RN	CLASS GA	Unit	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q
E524.2	1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,1,1-Trichloroethane	71-55-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,1,2-Trichloroethane	79-00-5	1	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,1-Dichloroethane	75-34-3	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,1-Dichloroethene	75-35-4	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,1-Dichloropropene	563-58-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,2,3-Trichlorobenzene	87-61-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,2,3-Trichloropropane	96-18-4	0.04	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,2,4-Trichlorobenzene	120-82-1	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,2,4-Trimethylbenzene	95-63-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,2-Dichlorobenzene	95-50-1	3	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,2-Dichloroethane	107-06-2	0.6	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,2-Dichloropropane	78-87-5	1	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,3-Dichlorobenzene	541-73-1	3	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,3-Dichloropropane	142-28-9	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	1,4-Dichlorobenzene	106-46-7	3	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	2,2-Dichloropropane	594-20-7	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	2-Chlorotoluene	95-49-8	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	4-Chlorotoluene	106-43-4	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Benzene	71-43-2	1	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Bromobenzene	108-86-1	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Bromochloromethane	74-97-5	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Bromodichloromethane	75-27-4	50	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Bromoform	75-25-2	50	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Bromomethane	74-83-9	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Carbon Tetrachloride	56-23-5	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Chlorobenzene	108-90-7	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Chloroethane	75-00-3	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Chloroform	67-66-3	7	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Chloromethane	74-87-3	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Cis-1,2-Dichloroethylene	156-59-2	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Cymene	99-87-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Dibromochloromethane	124-48-1	50	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Dibromomethane	74-95-3	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Dichlorodifluoromethane	75-71-8	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Ethylbenzene	100-41-4	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Hexachlorobutadiene	87-68-3	0.5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Isopropylbenzene (Cumene)	98-82-8	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Methyl Tert-Butyl Ether (MTBE)	1634-04-4	10	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Methylene Chloride	75-09-2	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	M-P-Xylene	136777-61-2	5	ug/l	ND < 1	ug/l	U	ND < 1	ug/l	U	ND < 1	ug/l	U	ND < 1	ug/l	U
E524.2	Naphthalene	91-20-3	10	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	N-Butylbenzene	104-51-8	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	N-Propylbenzene	103-65-1	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	O-Xylene (1,2-Dimethylbenzene)	95-47-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Sec-Butylbenzene	135-98-8	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Styrene	100-42-5	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	T-Butylbenzene	98-06-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Tetrachloroethylene (PCE)	127-18-4	**5**	ug/l	**11**	**ug/l**		**10**	**ug/l**		0.52	ug/l	g
E524.2	Toluene	108-88-3	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Trans-1,2-Dichloroethene	156-60-5	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Trichloroethylene (TCE)	79-01-6	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Trichlorofluoromethane	75-69-4	5	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U
E524.2	Vinyl Chloride	75-01-4	2	ug/l	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U	ND < 0.5	ug/l	U

Notes:
Standards are for Class GA groundwater according 6NYCRR Part 700-705;
Red Shading designates those compounds detected at concentrations exceeding NYSDEC standards;
ND and U = Not detected at MDL for sample.

Table 2 – Groundwater: Comparison to Target Concentrations

Table 2. **Groundwater Results Compared to Target Concentrations - Perchloroethylene (PCE) and Total Volatile Organic Compounds (VOCs);** USEPA Method 524.2; collected **Annually 2001 – 2017;**
Beekman Highway Garage, Town of Beekman, New York;
PVE File #160581

Monitoring Well	Constituent	2001 Target Concentration	2001 Sampling Results	2003 Target Concentration	2003 Sampling Results	2004 Target Concentration	2004 Sampling Results
MW-4	PCE	62	**79.6**	42	**231**	35	**94.7**
MW-5	Total VOCs	139	20.27	132	3.9	129	0.8
MW-18S	PCE	242	130	133	56	99	**102**
MW-18S	Total VOCs	287	133.48	244	81.6	225	118.1

Notes:
All concentrations are in ug/L unless otherwise indicated;
Boldface type designates those compounds detected at concentrations exceeding target concentrations.

Table 2 cont'd. **Groundwater Results Compared to Target Concentrations - Perchloroethylene (PCE) and Total Volatile Organic Compounds (VOCs);** USEPA Method 524.2; collected **Annually 2001 – 2017;**
Beekman Highway Garage, Town of Beekman, New York;
PVE File #160581

Monitoring Well	Constituent	2005 Target Concentration	2005 Sampling Results	2006 Target Concentration	2006 Sampling Results	2008 Target Concentration	2008 Sampling Results
MW-4	PCE	29	**49.3**	24	**97.8**	16	**82.1**
MW-5	Total VOCs	126	0.8	122	1.3	116	ND
MW-18S	PCE	73	51.5	54	51.3	30	**42.5**
MW-18S	Total VOCs	207	53.5	191	52.8	163	43.9

Notes:
All concentrations are in ug/L unless otherwise indicated;
Boldface type designates those compounds detected at concentrations exceeding target concentrations.

Table 2 cont'd. **Groundwater Results Compared to Target Concentrations - Perchloroethylene (PCE) and Total Volatile Organic Compounds (VOCs);** USEPA Method 524.2; collected **Annually 2001 – 2017;**
Beekman Highway Garage, Town of Beekman, New York;
PVE File #160581

Monitoring Well	Constituent	2009 Target Concentration	2009 Sampling Results	2010 Target Concentration	2010 Sampling Results	2011 Target Concentration	2011 Sampling Results
MW-4	PCE	13	**49.3**	11	**21.4**	9	**54.0**
MW-5	Total VOCs	113	5.9	110	0.8	108	1.2
MW-18S	PCE	22	**23.0**	16	**17.1**	12	**12.8**
MW-18S	Total VOCs	150	25.6	138	17.9	128	13.3

Notes:
All concentrations are in ug/L unless otherwise indicated;
Boldface type designates those compounds detected at concentrations exceeding target concentrations.

Table 2 cont'd. **Groundwater Results Compared to Target Concentrations - Perchloroethylene (PCE) and Total Volatile Organic Compounds (VOCs);** USEPA Method 524.2; collected **Annually 2001 – 2017;**
Beekman Highway Garage, Town of Beekman, New York;
PVE File #160581

Monitoring Well	Constituent	2012 Target Concentration	2012 Sampling Results	2013 Target Concentration	2013 Sampling Results	2014 Target Concentration	2014 Sampling Results
MW-4	PCE	7	**9.8**	6	**15**	5	**17**
MW-5	Total VOCs	105	1.1	103	0.64	100	0.87
MW-18S	PCE	9	**12.9**	7	**11**	5	**11**
MW-18S	Total VOCs	118	13.6	108	11	100	11.57

Notes:
All concentrations are in ug/L unless otherwise indicated;
Boldface type designates those compounds detected at concentrations exceeding target concentrations.

Table 2 cont'd. **Groundwater Results Compared to Target Concentrations - Perchloroethylene (PCE) and Total Volatile Organic Compounds (VOCs);** USEPA Method 524.2; collected **Annually 2001 – 201;**
Beekman Highway Garage, Town of Beekman, New York;
PVE File #160581

Monitoring Well	Constituent	2017 Target Concentration	2017 Sampling Results				
MW-4	PCE	4	**11**				
MW-5	Total VOCs	N/A	N/A				
MW-18S	PCE	N/A	N/A				
MW-18S	Total VOCs	N/A	N/A				

Notes:
All concentrations are in ug/L unless otherwise indicated;
Boldface type designates those compounds detected at concentrations exceeding target concentrations.

Table 3 – Groundwater: Monitoring Well MW-4 Quarterly Comparison

Table 3. **Volatile Organic Compounds (VOCs) in On-Site Monitoring Well MW-4 Groundwater Samples;** USEPA Method 8260 and 524.2; collected **October 1997 through December 2017;** Beekman Highway Garage, Town of Beekman, New York; PVE File #160581

Sample Identification	Sample Dates	Chemical Constituent		
		Tetrachloroethylene	Methyl-tert-Butyl Ether	Total VOCs
Volatile Organic Compounds				
NYSDEC Class GA	-	5	10	NA
MW-4	10/6-8/97	**91**	NA	93
	11/28/00	**98**	NA	102.7
	10/24/01	**79.6**	NA	79.6
	11/7/02	**140**	NA	140
	3/27/03	**231.3**	**17.0**	248.3
	6/17/03	**286**	**86**	305.5
	9/11/03	**143**	3.0	147.3
	12/18/03	**251**	2.8	256.1
	3/11/04	**141**	5.3	147.6
	6/28/04	**94.7**	3.5	98.7
	9/16/04	**65.2**	3.1	68.3
	12/8/04	**101**	**17.30**	119
	3/14/05	**113**	ND<2.0	114
	6/02/05	**75.10**	7.60	**83.3**
	9/19/05	**49.3**	ND<2.0	49.3
	12/12/05	**171**	6.1	195.6
	3/23/06	**69.4**	ND<2.0	74.9
	6/27/06	**68.1**	ND<2.0	71.2
	9/27/06	**51.8**	2.4	54.2

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705; Class GA Groundwater Standards
All concentrations are in ug/L unless otherwise indicated;
NA = Not Applicable;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standard

Table 3 (cont.) **Volatile Organic Compounds (VOCs) in On-Site Monitoring Well MW-4 Groundwater Samples;**
USEPA Method 8260 and 524.2; collected **October 1997 through December 2017;**
Beekman Highway Garage, Town of Beekman, New York;
PVE File #160581

Sample Identification	Sample Dates	Chemical Constituent		
		Tetrachloroethene	Methyl-tert-Butyl Ether	Total VOCs
Volatile Organic Compounds				
NYSDEC Class GA	-	5	10	NA
MW-4	11/20/06	**97.8**	**51.6**	150.5
	3/20/07	**24.0**	3.5	27.5
	6/07/07	**93.7**	ND<2.0	94.6
	9/6/07	**65.8**	ND<2.0	65.8
	11/28/07	**35.5**	ND<2.0	35.5
	2/14/08	**82.1**	**20.40**	82.1
	5/7/09	**79.7**	ND<2.0	80.5
	8/12/08	**38.7**	ND<2.0	38.7
	11/12/08	**53.4**	2.5	55.9
	2/17/09	**71.4**	ND<2.0	72.2
	4/23/09	**49.3**	ND<4	52.5
	7/27/09	**75.5**	ND<10	75.5
	10/14/09	**37.4**	ND<2.0	44.9
	2/13/10	**42.8**	ND<2.0	42.8
	5/4/10	**51.6**	ND<2.0	52.2
	9/16/10	**21.4**	ND<2.0	21.4
	7/14/11	**54.0**	ND<0.5	54.5
	6/13/12	**9.8**	ND<0.5	10.3
	8/21/13	**15**	ND<0.5	15
	9/4/14	**17**	ND<0.5	17

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705; Class GA Groundwater Standards
All concentrations are in ug/L unless otherwise indicated;
NA = Not Applicable;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standard

Table 3 (cont.) **Volatile Organic Compounds (VOCs) in On-Site Monitoring Well MW-4 Groundwater Samples;**
USEPA Method 8260 and 524.2; collected **October 1997 through December 2017;**
Beekman Highway Garage, Town of Beekman, New York;
PVE File #160581

Sample Identification	Sample Dates	Chemical Constituent		
		Tetrachloroethene	Methyl-tert-Butyl Ether	Total VOCs
Volatile Organic Compounds				
NYSDEC Class GA	-	5	10	NA
MW-4	9/2217	**11**	ND<0.5	11
	10/13/17	**10**	ND<0.5	10

Notes:
1 - Standards are for groundwater according to 6NYCRR Part 700-705; Class GA Groundwater Standards
All concentrations are in ug/L unless otherwise indicated;
NA = Not Applicable;
Boldface type designates those compounds detected at concentrations exceeding NYSDEC standard

Table 4 – Soil Vapor: SSDS Differential Pressure Readings

Table 3. **Differential Pressure Readings (U-Tube Manometer) from Sub-Slab Depressurization Systems**; collected January 2009 to February 2017; Town of Beekman Highway Garage, Town of Beekman New York, PVE, LLC File #560581

Date	Sampling Location				
	Sherriff's Substation	Block Garage (North)	Block Garage (South)	Pole Barn (East)	Pole Barn (West)
01-12-09	-1.75”	-2.0”	-1.7”	-0.75”	-1.0”
02-17-09	-1.75”	-2.25”	-1.5”	-0.75”	-1.0”
03-20-09	-1.75”	-1.50”	-2.75”	-1.25”	-0.75”
05-12-09	-1.75”	-2.75”	-1.5”	NS	NS
07-27-09	-1.75”	-3.0”	-1.5”	-0.75”	-1.5”
10-14-09	-1.5”	-3.0”	-1.25”	-0.5”	-0.75”
02-23-10	-1.75”	-3.0”	-1.5”	-0.75”	-1.25”
05-05-10	-0.75”	-3.0”	-1.50”	-0.75”	-1.25”
09-16-10	-1.75”	-3.0”	-1.25-1.5”	-0.75”	-1.25”
12-21-10	-2.0”	-3.0”	-1.5”	-0.75”	-1.25”
01-13-11	-2.0”	-3.0”	-1.25”	-0.75”	-1.25”
06-02-11*	-1.75	-1.6”	-1.5”	-0.75”	-1.0”
08-04-11	-1.75”	-1.5”	-1.5”	-0.75”	-1.0”
12-22-11	-1.5”	-0.3”	-1.0”	-0.75”	-1.2”
01-11-12	-1.6”	-0.2”	-1.0”	-0.75”	-1.0”
06-14-12	-1.5”	-0.3”	-1.0”	-0.75”	-1.0”
09-12-12	-1.5”	Offline	-1.0”	-0.75”	-1.0”
12-5-12	-1.5”	Offline	-1.0”	-0.6”	-1.0”
03-13-13	-1.5”	Offline	-1.0”	-0.75”	-1.0”
04-09-13	-1.75”	-1.6”	-0.5”	-0.75”	-1.0”
05-30-13	-1.6”	1.7”	-1.4”	-0.75”	-1.0”

08-21-13	-1.75”	1.6”	1.6”	-0.75”	-0.8”
12-02-13	-1.75”	-1.7”	-1.5”	-0.75”	-1.75”
01-29-14	-1.5”	-1.7”	-1.5”	-0.75”	-1.0”
5-20-14	-1.6"	-1.7"	-1.25"	-0.75"	NS
9-4-14	-1.75"	-1.7"	-1.5"	-0.75"	-1.25"
10-29-14	-1.5"	-1.6"	-1.25"	-0.75"	-1.25"
02-23-15	-1.5"	-1.75"	-1.4"	-0.75"	-1.125"
05-18-15	-1.5”	-1.7”	-1.35”	-0.75”	-1.25”
09-01-15	-1.675”	-1.675”	-1.375”	-0.675”	-1.125”
10-21-15	-1.5”	-1.5”	-1.25”	-0.675	-1.15”
02-09-16	-1.5”	-1.52”	-1.25”	Offline	-1.0”
04-19-16	-1.5”**	-1.5”	-1.3”	-1.0”**	-1.0”
09-14-16	-1.75”	-1.5”	-1.25”	-1.0”	-1.0”
11-16-16	-1.5”	-1.5”	-1.25”	-1.0”	-1.0”
02-16-17	-1.75”	-1.45”	-1.50”	-1.0”	-2.0”
04-11-17	-1.675”	-1.45”	-1.25”	-1.125”	-2.0”
09-21-17	-1.5”	-1.5”	-1.25”	-1.0”	-2.0”
12-12-17	-1.45”	-1.20”	-1.0”	-1.0”	-1.75”
02-07-18	-1.25”	-0.9”	-1.0”	-1.15”	-1.75”
04-26-18	-1.25”	-0.9”	-1.0”	-1.15”	-1.75”

Notes:
Readings measured in inches of water column;
NS = Not Sampled;
* New U-tube manometer installed at North Block Garage with 1/10” tick marks
** Fan replaced on 4/19/2016

Table 5 – Indoor Air: Analytical Data

Table 5A. **Volatile Organic Compounds (VOCs) in Ambient Indoor Air Samples**
USEPA TO-15; collected **February 9-10, March 7-8, and April 19-20, 2016**
Beekman Highway Garage, Town of Beekman, New York
PVE, LLC File #560581

								Date Sampled	2/9/2016			3/7/2016			4/19/2016			2/9/2016		
								Location	IA-1 20160209			1A-1 20160307			IA-1 20160419			IA-2 20160209		
								Sample ID	863336			900052			961426			863337		
Analyte	CAS RN	INDOOR 25TH %	INDOOR MEDIAN	INDOOR 75TH %	INDOOR UPPER FENCE	INDOOR 99TH %	Unit	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q	Result	Unit	Q
1,1,1-Trichloroethane	71-55-6	0.25	0.3	1	2.5	41	ug/m3	ND< 0.82	ug/m3		ND< 0.82	ug/m3		ND< 0.82	ug/m3		ND< 0.82	ug/m3	
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.25	0.25	0.4	0.8	ug/m3	ND< 1.0	ug/m3		ND< 1.0	ug/m3		ND< 1.0	ug/m3		ND< 1.0	ug/m3	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1							0.77	ug/m3	J	0.84	ug/m3	J	ND< 1.1	ug/m3		0.77	ug/m3	J
1,1,2-Trichloroethane	79-00-5	0.25	0.25	0.25	0.4	1	ug/m3	ND< 0.82	ug/m3		ND< 0.82	ug/m3		ND< 0.82	ug/m3		ND< 0.82	ug/m3	
1,1-Dichloroethane	75-34-3	0.25	0.25	0.25	0.4	0.4	ug/m3	ND< 0.61	ug/m3		ND< 0.61	ug/m3		ND< 0.61	ug/m3		ND< 0.61	ug/m3	
1,1-Dichloroethene	75-35-4	0.25	0.25	0.25	0.4	6.3	ug/m3	ND< 0.59	ug/m3		ND< 0.59	ug/m3		ND< 0.59	ug/m3		ND< 0.59	ug/m3	
1,2,4-Trichlorobenzene	120-82-1	0.25	0.25	0.25	0.5	26	ug/m3	ND< 1.1	ug/m3		ND< 1.1	ug/m3		ND< 1.1	ug/m3		ND< 1.1	ug/m3	
1,2,4-Trimethylbenzene	95-63-6	0.7	1.9	4.3	9.8	35	ug/m3	1.2	ug/m3		12	ug/m3		ND< 0.74	ug/m3		2.5	ug/m3	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.25	0.25	0.25	0.4	0.25	ug/m3	ND< 1.2	ug/m3		ND< 1.2	ug/m3		ND< 1.2	ug/m3		ND< 1.2	ug/m3	
1,2-Dichlorobenzene	95-50-1	0.25	0.25	0.25	0.5	2.3	ug/m3	ND< 0.90	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3	
1,2-Dichloroethane	107-06-2	0.25	0.25	0.25	0.4	0.4	ug/m3	ND< 0.61	ug/m3		ND< 0.61	ug/m3		ND< 0.61	ug/m3		ND< 0.61	ug/m3	
1,2-Dichloropropane	78-87-5	0.25	0.25	0.25	0.4	9	ug/m3	ND< 0.69	ug/m3		ND< 0.69	ug/m3		ND< 0.69	ug/m3		ND< 0.69	ug/m3	
1,2-Dichlorotetrafluoroethane	76-14-2	0.25	0.25	1.1	0.4	23	ug/m3	ND< 1.0	ug/m3		ND< 1.0	ug/m3		ND< 1.0	ug/m3		ND< 1.0	ug/m3	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	0.3	0.6	1.7	3.9	25	ug/m3	ND< 0.74	ug/m3		5.6	ug/m3		ND< 0.74	ug/m3		1.1	ug/m3	
1,3-Butadiene	106-99-0							ND< 0.33	ug/m3		ND< 0.33	ug/m3		ND< 0.33	ug/m3		ND< 0.33	ug/m3	
1,3-Dichlorobenzene	541-73-1	0.25	0.25	0.25	0.5	1.6	ug/m3	ND< 0.90	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3	
1,4-Dichlorobenzene	106-46-7	0.25	0.25	0.5	1.2	25	ug/m3	ND< 0.90	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3	
1,4-Dioxane (P-Dioxane)	123-91-1							ND< 1.1	ug/m3		ND< 1.1	ug/m3		ND< 1.1	ug/m3		ND< 1.1	ug/m3	
2,2,4-Trimethylpentane	540-84-1							0.93	ug/m3		14	ug/m3		ND< 0.70	ug/m3		1.9	ug/m3	
2-Hexanone	591-78-6	0.25	0.3	0.9	1.9	16	ug/m3	ND< 1.2	ug/m3		ND< 1.2	ug/m3		ND< 1.2	ug/m3		ND< 1.2	ug/m3	
4-Ethyltoluene	622-96-8	1.1	2.1	5.9	13	120	ug/m3	ND< 0.74	ug/m3		5.7	ug/m3		ND< 0.74	ug/m3		0.69	ug/m3	J
Acetone	67-64-1	9.9	21	52	115	200	ug/m3	19	ug/m3		34	ug/m3		16	ug/m3		14	ug/m3	
Allyl Chloride (3-Chloropropene)	107-05-1							ND< 0.47	ug/m3		ND< 0.47	ug/m3		ND< 0.47	ug/m3		ND< 0.47	ug/m3	
Benzene	71-43-2	1.1	2.1	5.9	13	120	ug/m3	2.5	ug/m3		6.4	ug/m3		ND< 0.48	ug/m3		1.8	ug/m3	
Benzyl Chloride	100-44-7							ND< 0.86	ug/m3		ND< 0.86	ug/m3		ND< 0.86	ug/m3		ND< 0.86	ug/m3	
Bromodichloromethane	75-27-4							ND< 1.0	ug/m3		ND< 1.0	ug/m3		ND< 1.0	ug/m3		ND< 1.0	ug/m3	
Bromoethene/ Vinyl Bromide	593-60-2							ND< 0.66	ug/m3		ND< 0.66	ug/m3		ND< 0.66	ug/m3		ND< 0.66	ug/m3	
Bromoform	75-25-2							ND< 1.6	ug/m3		ND< 1.6	ug/m3		ND< 1.6	ug/m3		ND< 1.6	ug/m3	
Bromomethane	74-83-9	0.25	0.25	0.25	0.5	3.2	ug/m3	ND< 0.58	ug/m3		ND< 0.58	ug/m3		ND< 0.58	ug/m3		ND< 0.58	ug/m3	
Carbon Disulfide	75-15-0							ND< 0.47	ug/m3		ND< 0.47	ug/m3		ND< 0.47	ug/m3		ND< 0.47	ug/m3	
Carbon Tetrachloride	56-23-5	0.25	0.25	0.6	1.3	3.2	ug/m3	0.63	ug/m3		ND< 0.94	ug/m3		0.38	ug/m3	J	0.69	ug/m3	
Chlorobenzene	108-90-7	0.25	0.25	0.25	0.4	3.2	ug/m3	ND< 0.69	ug/m3		ND< 0.69	ug/m3		ND< 0.69	ug/m3		ND< 0.69	ug/m3	
Chloroethane	75-00-3	0.25	0.25	0.25	0.4	0.9	ug/m3	ND< 0.40	ug/m3		ND< 0.40	ug/m3		ND< 0.40	ug/m3		ND< 0.40	ug/m3	
Chloroform	67-66-3	0.25	0.25	0.5	1.2	13	ug/m3	ND< 0.73	ug/m3		ND< 0.73	ug/m3		ND< 0.73	ug/m3		0.63	ug/m3	J
Chloromethane	74-87-3	0.25	0.5	1.8	4.2	14	ug/m3	0.95	ug/m3		ND< 0.31	ug/m3		0.54	ug/m3		0.95	ug/m3	
Cis-1,2-Dichloroethylene	156-59-2	0.25	0.25	0.25	0.4	4.6	ug/m3	ND< 0.59	ug/m3		ND< 0.59	ug/m3		ND< 0.59	ug/m3		ND< 0.59	ug/m3	
Cis-1,3-Dichloropropene	10061-01-5	0.25	0.25	0.25	0.4	2.1	ug/m3	ND< 0.68	ug/m3		ND< 0.68	ug/m3		ND< 0.68	ug/m3		ND< 0.68	ug/m3	
Cyclohexane	110-82-7	0.25	0.8	2.6	6.3	88	ug/m3	0.96	ug/m3		5.0	ug/m3		ND< 0.52	ug/m3		1.2	ug/m3	
Dibromochloromethane	124-48-1							ND< 1.3	ug/m3		ND< 1.3	ug/m3		ND< 1.3	ug/m3		ND< 1.3	ug/m3	
Dichlorodifluoromethane	75-71-8	0.25	0.25	1.1	0.4	180	ug/m3	2.5	ug/m3		3.8	ug/m3		1.4	ug/m3		2.3	ug/m3	
Ethyl Acetate	141-78-6							0.90	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3		1.2	ug/m3	
Ethylbenzene	100-41-4	0.4	1	2.8	6.4	26	ug/m3	0.91	ug/m3		6.3	ug/m3		ND< 0.65	ug/m3		1.2	ug/m3	
Hexachlorobutadiene	87-68-3	0.25	0.25	0.25	0.5	29	ug/m3	ND< 1.6	ug/m3		ND< 1.6	ug/m3		ND< 1.6	ug/m3		ND< 1.6	ug/m3	
Isopropanol	67-63-0							1.3	ug/m3		6.4	ug/m3		1.1	ug/m3		7.4	ug/m3	
M And P Xylenes	79601-23-1	0.5	1.5	4.6	11	46	ug/m3	2.9	ug/m3		19	ug/m3					4.6	ug/m3	
M,P-Xylene	179601-23-1													ND< 1.3	ug/m3				
Methyl Ethyl Ketone (2-Butanone)	78-93-3	1.4	3.4	7.3	16	79	ug/m3	1.0	ug/m3		5.0	ug/m3		0.59	ug/m3	J	2.6	ug/m3	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	0.25	0.3	0.9	1.9	16	ug/m3	0.45	ug/m3	J	8.2	ug/m3	J	ND< 1.2	ug/m3		1.7	ug/m3	
Methyl Tert-Butyl Ether (MTBE)	1634-04-4	0.25	0.8	5.6	14	230	ug/m3	ND< 0.54	ug/m3		ND< 0.54	ug/m3		ND< 0.54	ug/m3		ND< 0.54	ug/m3	
Methylene Chloride	75-09-2	0.3	1.4	6.6	16	310	ug/m3	0.73	ug/m3		3.5	ug/m3		0.80	ug/m3		0.90	ug/m3	
N-Heptane	142-82-5	1	2.8	7.6	18	72	ug/m3	0.82	ug/m3		8.1	ug/m3		ND< 0.61	ug/m3		6.3	ug/m3	
N-Hexane	110-54-3	0.6	1.6	5.9	14	93	ug/m3	0.95	ug/m3		5.6	ug/m3		0.42	ug/m3	J	2.0	ug/m3	
O-Xylene (1,2-Dimethylbenzene)	95-47-6	0.4	1.1	3.1	7.1	32	ug/m3	1.3	ug/m3		8.4	ug/m3		ND< 0.65	ug/m3		1.6	ug/m3	
p-Bromofluorobenzene	460-00-4							ND< 0	ug/m3		ND< 0	ug/m3		ND< 0	ug/m3		ND< 0	ug/m3	
Propylene	115-07-1							ND< 0.26	ug/m3		ND< 0.26	ug/m3		ND< 0.26	ug/m3		ND< 0.26	ug/m3	
Styrene	100-42-5	0.25	0.3	0.6	1.4	6.2	ug/m3	ND< 0.64	ug/m3		ND< 0.64	ug/m3		ND< 0.64	ug/m3		ND< 0.64	ug/m3	
Tetrachloroethylene (PCE)	127-18-4	0.25	0.3	1.1	2.5	20	ug/m3	1.3	ug/m3		12	ug/m3		0.68	ug/m3	J	1.5	ug/m3	
Tetrahydrofuran	109-99-9	0.25	0.25	0.4	0.8	19	ug/m3	ND< 0.44	ug/m3		ND< 0.44	ug/m3		ND< 0.44	ug/m3		ND< 0.44	ug/m3	
Toluene	108-88-3	3.5	9.6	25	57	300	ug/m3	5.3	ug/m3		27	ug/m3		0.90	ug/m3		13	ug/m3	
Trans-1,2-Dichloroethene	156-60-5							ND< 0.59	ug/m3		ND< 0.59	ug/m3		ND< 0.59	ug/m3		ND< 0.59	ug/m3	
Trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	0.25	0.25	0.25	ug/m3	ND< 0.68	ug/m3		ND< 0.68	ug/m3		ND< 0.68	ug/m3		ND< 0.68	ug/m3	
Trichloroethylene (TCE)	79-01-6	0.25	0.25	0.25	0.5	7.4	ug/m3	4.0	ug/m3		12	ug/m3		0.27	ug/m3	J	0.86	ug/m3	
Trichlorofluoromethane	75-69-4							1.6	ug/m3		2.6	ug/m3		0.90	ug/m3		1.7	ug/m3	
Vinyl Acetate	108-05-4							ND< 0.53	ug/m3		ND< 0.53	ug/m3		ND< 0.53	ug/m3		ND< 0.53	ug/m3	
Vinyl Chloride	75-01-4	0.25	0.25	0.25	0.4	0.8	ug/m3	ND< 0.10	ug/m3		ND< 0.38	ug/m3		ND< 0.38	ug/m3		ND< 0.10	ug/m3	

Notes:

Standards are for respective NYSDOH Indoor Air Guidance Values

Bold font indicates value exceeding 25th Percentile concentrations.

Green shading indicates value exceeding Median concentrations.

Yellow shading indicates value exceeding 75th Percentile concentrations.

Orange shading indicates value exceeding Upper Fence concentrations.

Red shading indicates value exceeding 99th Percentile concentrations.

NE = No standard established.

MDL = Method Detection Limit

ND= Not detected at MDL for sample.

J = Analyte detected at or below quantitation limits

Table 5B. Volatile Organic Compounds (VOCs) in Ambient Indoor Air Samples
USEPA TO-15; collected February 16-17, 2017
Beekman Highway Garage, Town of Beekman, New York
PVE, LLC File #560581

						Date Sampled	2/16/2017			2/16/2017		
						Sample ID	IA-1 20170216			IA-2 20170216		
Analyte	CAS RN	NYSDOH INDOOR AIR MEDIAN CONCENTRATION	NYSDOH INDOOR AIR 99TH PERCENTILE	TABLE 3.1 IMMEDIATE ACTION LEVELS*	Unit		Result	Unit	Q	Result	Unit	Q
1,1,1-Trichloroethane	71-55-6	0.3	41	NE	ug/m3		ND< 0.82	ug/m3		ND< 0.82	ug/m3	
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.8	NE	ug/m3		ND< 1.0	ug/m3		ND< 1.0	ug/m3	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NE	NE	NE			ND< 1.1	ug/m3		ND< 1.1	ug/m3	
1,1,2-Trichloroethane	79-00-5	0.25	1	NE	ug/m3		ND< 0.82	ug/m3		ND< 0.82	ug/m3	
1,1-Dichloroethane	75-34-3	0.25	0.4	NE	ug/m3		ND< 0.61	ug/m3		ND< 0.61	ug/m3	
1,1-Dichloroethene	75-35-4	0.25	6.3	NE	ug/m3		ND< 0.59	ug/m3		ND< 0.59	ug/m3	
1,2,4-Trichlorobenzene	120-82-1	0.25	26	NE	ug/m3		ND< 1.1	ug/m3		ND< 1.1	ug/m3	
1,2,4-Trimethylbenzene	95-63-6	1.9	35	NE	ug/m3		ND< 0.74	ug/m3		14	ug/m3	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.25	0.25	NE	ug/m3		ND< 1.2	ug/m3		ND< 1.2	ug/m3	
1,2-Dichlorobenzene	95-50-1	0.25	2.3	NE	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3	
1,2-Dichloroethane	107-06-2	0.25	0.4	NE	ug/m3		ND< 0.61	ug/m3		ND< 0.61	ug/m3	
1,2-Dichloropropane	78-87-5	0.25	9	NE	ug/m3		ND< 0.69	ug/m3		ND< 0.69	ug/m3	
1,2-Dichlorotetrafluoroethane	76-14-2	0.25	23	NE	ug/m3		ND< 1.0	ug/m3		ND< 1.0	ug/m3	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	0.6	25	NE	ug/m3		ND< 0.74	ug/m3		4.0	ug/m3	
1,3-Butadiene	106-99-0	NE	NE	NE			ND< 0.33	ug/m3		ND< 0.33	ug/m3	
1,3-Dichlorobenzene	541-73-1	0.25	1.6	NE	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3	
1,4-Dichlorobenzene	106-46-7	0.25	25	NE	ug/m3		ND< 0.90	ug/m3		ND< 0.90	ug/m3	
1,4-Dioxane (P-Dioxane)	123-91-1	NE	NE	NE			ND< 1.1	ug/m3		ND< 1.1	ug/m3	
2,2,4-Trimethylpentane	540-84-1	NE	NE	NE			ND< 0.70	ug/m3		8.5	ug/m3	
2-Hexanone	591-78-6	0.3	16	NE	ug/m3		ND< 1.2	ug/m3		ND< 1.2	ug/m3	
4-Ethyltoluene	622-96-8	2.1	120	NE	ug/m3		ND< 0.74	ug/m3		4.3	ug/m3	
Acetone	67-64-1	21	200	NE	ug/m3		20	ug/m3		54	ug/m3	
Allyl Chloride (3-Chloropropene)	107-05-1	NE	NE	NE			ND< 0.47	ug/m3		ND< 0.47	ug/m3	
Benzene	71-43-2	2.1	120	NE	ug/m3		0.54	ug/m3		3.3	ug/m3	
Benzyl Chloride	100-44-7	NE	NE	NE			ND< 0.86	ug/m3		ND< 0.86	ug/m3	
Bromodichloromethane	75-27-4	NE	NE	NE			ND< 1.0	ug/m3		ND< 1.0	ug/m3	
Bromoethene/ Vinyl Bromide	593-60-2	NE	NE	NE			ND< 0.66	ug/m3		ND< 0.66	ug/m3	
Bromoform	75-25-2	NE	NE	NE			ND< 1.6	ug/m3		ND< 1.6	ug/m3	
Bromomethane	74-83-9	0.25	3.2	NE	ug/m3		ND< 0.58	ug/m3		ND< 0.58	ug/m3	
Carbon Disulfide	75-15-0	NE	NE	NE			ND< 0.47	ug/m3		ND< 0.47	ug/m3	
Carbon Tetrachloride	56-23-5	0.25	3.2	NE	ug/m3		ND< 0.94	ug/m3		ND< 0.94	ug/m3	
Chlorobenzene	108-90-7	0.25	3.2	NE	ug/m3		ND< 0.69	ug/m3		ND< 0.69	ug/m3	
Chloroethane	75-00-3	0.25	0.9	NE	ug/m3		ND< 0.40	ug/m3		ND< 0.40	ug/m3	
Chloroform	67-66-3	0.25	13	NE	ug/m3		ND< 0.73	ug/m3		ND< 0.73	ug/m3	
Chloromethane	74-87-3	0.5	14	NE	ug/m3		1.2	ug/m3		1.2	ug/m3	
Cis-1,2-Dichloroethylene	156-59-2	0.25	4.6	NE	ug/m3		ND< 0.59	ug/m3		ND< 0.59	ug/m3	
Cis-1,3-Dichloropropene	10061-01-5	0.25	2.1	NE	ug/m3		ND< 0.68	ug/m3		ND< 0.68	ug/m3	
Cyclohexane	110-82-7	0.8	38	NE	ug/m3		ND< 0.52	ug/m3		3.7	ug/m3	
Dibromochloromethane	124-48-1	NE	NE	NE			ND< 1.3	ug/m3		ND< 1.3	ug/m3	
Dichlorodifluoromethane	75-71-8	0.25	180	NE	ug/m3		1.9	ug/m3		1.9	ug/m3	
Ethyl Acetate	141-78-6	NE	NE	NE			ND< 0.54	ug/m3		ND< 0.54	ug/m3	
Ethylbenzene	100-41-4	1	26	NE	ug/m3		ND< 0.65	ug/m3		6.9	ug/m3	
Hexachlorobutadiene	87-68-3	0.25	29	NE	ug/m3		ND< 1.6	ug/m3		ND< 1.6	ug/m3	
Isopropanol	67-63-0	NE	NE	NE			12	ug/m3		38	ug/m3	
M,P-Xylene	179601-23-1	NE	NE	NE			0.48	ug/m3	J	23	ug/m3	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	3.4	79	NE	ug/m3		0.68	ug/m3	J	2.2	ug/m3	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	0.3	16	NE	ug/m3		ND< 1.2	ug/m3		1.3	ug/m3	
Methyl Tert-Butyl Ether (MTBE)	1634-04-4	0.8	230	NE	ug/m3		ND< 0.54	ug/m3		ND< 0.54	ug/m3	
Methylene Chloride	75-09-2	1.4	310	NE	ug/m3		1.1	ug/m3		1.2	ug/m3	
N-Heptane	142-82-5	2.8	72	NE	ug/m3		ND< 0.61	ug/m3		6.9	ug/m3	
N-Hexane	110-54-3	1.6	93	NE	ug/m3		ND< 0.53	ug/m3		8.7	ug/m3	
O-Xylene (1,2-Dimethylbenzene)	95-47-6	1.1	32	NE	ug/m3		ND< 0.65	ug/m3		9.9	ug/m3	
p-Bromofluorobenzene	460-00-4	NE	NE	NE			ND< 0	ug/m3		ND< 0	ug/m3	
Propylene	115-07-1	NE	NE	NE			ND< 0.26	ug/m3		ND< 0.26	ug/m3	
Styrene	100-42-5	0.3	6.2	NE	ug/m3		ND< 0.64	ug/m3		ND< 0.64	ug/m3	
Tetrachloroethylene (PCE)	127-18-4	0.3	20	300	ug/m3		4.7	ug/m3		4.7	ug/m3	
Tetrahydrofuran	109-99-9	0.25	19	NE	ug/m3		ND< 0.44	ug/m3		ND< 0.44	ug/m3	
Toluene	108-88-3	9.6	300	NE	ug/m3		0.94	ug/m3		24	ug/m3	
Trans-1,2-Dichloroethene	156-60-5	NE	NE	NE			ND< 0.59	ug/m3		ND< 0.59	ug/m3	
Trans-1,3-Dichloropropene	10061-02-6	0.25	0.25	NE	ug/m3		ND< 0.68	ug/m3		ND< 0.68	ug/m3	
Trichloroethylene (TCE)	79-01-6	0.25	7.4	20	ug/m3		0.59	ug/m3	J	ND< 0.81	ug/m3	
Trichlorofluoromethane	75-69-4	NE	NE	NE			1.1	ug/m3		1.1	ug/m3	
Vinyl Acetate	108-05-4	NE	NE	NE			ND< 0.53	ug/m3		ND< 0.53	ug/m3	
Vinyl Chloride	75-01-4	0.25	0.8	NE	ug/m3		ND< 0.38	ug/m3		ND< 0.38	ug/m3	

Notes:
Standards are for respective NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York - 2006 Median Concentration and 99th Percentile Concentrations;
2006 Table 3.1 Air Guidance Values for Indoor Air;
*** - 2013 and 2015 updates to PCE & TCE immediate action levels;**
Yellow shading indicates value exceeding Median concentrations.
Orange shading indicates value exceeding 99th Percentile concentrations.
Red shading indicates value exceeding Immediate Action Level concentrations.
IA = Indoor Ambient Air Sample;
NE = No standard established.
MDL = Method Detection Limit
ND= Not detected at MDL for sample.
J = Analyte detected at or below quantitation limits

Table 5. Indoor Air Data, 2017 -2016; NYSDOH Guidance Compounds
Beekman Highway Garage, Town of Beekman, New York
PVE, LLC File #560581

Location			IA-1										
Date			2/16/2017	4/19/2016	3/7/2016	2/9/2016	2/23/2015	1/29/2014	4/10/2013	1/11/2012	1/13/2011	2/23/2010	1/12/2009
Analyte	Not To Exceed* Criteria	No Further Action** Criteria											
Trichloroethylene (TCE)	2	<0.25	0.59	0.27	12	4	1.6	ND<0.22	0.6	3.4	1.78	5.09	40.9
Tetrachloroethylene (PCE)	30	<3	4.7	0.68	12	1.3	ND<1.0	20	ND<1.0	3.2	2.37	5.55	0.745
Carbon Tetrachloride	---	<0.25	ND< 0.94	0.38	ND< 0.94	0.63	ND<0.94	0.96	0.51	0.7	0.555	0.628	0.634
Vinyl Chloride	---	<0.25	ND< 0.38	ND< 0.38	ND< 0.38	ND<0.10	ND<0.38	ND<0.1	ND<0.10	ND<0.10	ND<0.259	ND<0.259	ND<0.259
1,1,1-Trichloroethane	---	<3	ND< 0.82	ND< 0.82	ND< 0.82	ND<0.82	ND<0.82	ND<0.83	ND<0.83	ND<0.83	ND<0.551	ND<0.551	ND<0.551
1,1-Dichloroethene	---	<3	ND< 0.59	ND< 0.59	ND< 0.59	ND<0.59	ND<0.59	ND<0.6	ND<0.60	ND<0.60	ND<0.400	ND<0.400	ND<0.400
Cis-1,2-Dichloroethylene	---	<3	ND< 0.59	ND< 0.59	ND< 0.59	ND<0.59	ND<0.59	0.48 J	ND<0.60	ND<0.60	ND<0.400	ND<0.400	ND<0.400

Location			IA-2								
Date			2/16/2017	4/19/2016	2/23/2015	5/27/2014	4/10/2013	1/11/2012	1/13/2011	2/23/2010	1/12/2009
Analyte	Not To Exceed* Criteria	No Further Action** Criteria									
Trichloroethylene (TCE)	2	<0.25	ND<0.81	0.86	ND<0.81	ND<0.82	1.7	0.49	0.596	2.62	1.39
Tetrachloroethylene (PCE)	30	<3	4.7	1.5	1.6	1.3	2.3	ND<1.0	1.4	5.42	1.44
Carbon Tetrachloride	---	<0.25	ND<0.94	0.69	ND< 0.94	ND<0.96	0.7	0.77	0.529	0.556	0.634
Vinyl Chloride	---	<0.25	ND<0.38	ND<0.10	ND<0.38	ND<0.39	ND<0.10	ND<0.10	ND<0.261	ND<0.259	ND<0.261
1,1,1-Tri-chloroethane	---	<3	ND<0.82	ND<0.82	ND<0.82	ND<0.83	ND<0.83	ND<0.83	ND<0.556	ND<0.551	ND<0.556
1,1-Di-chloroethene	---	<3	ND< 0.59	ND< 0.59	ND<0.59	ND<0.6	ND<0.60	ND<0.60	ND<0.404	ND<0.400	ND<0.404
Cis-1,2-Di-chloroethylene	---	<3	ND<0.59	ND<0.59	ND<0.59	ND<0.6	ND<0.60	ND<0.60	ND<0.404	ND<0.400	ND<0.404

Notes:

* Indoor air concentration in ug/m^3 which NYSDOH declares as "not to exceed"; based on the Tetrachloroethene (PERC) in Indoor and Outdoor Air - September 2013 Fact Sheet and Trichloroethene (TCE) in Indoor and Outdoor Air - August 2015 Fact Sheet, published by NYSDOH's Bureau of Toxic Substance Assessment.

** Indoor air concentration in ug/m^3 for which "no further action" is required, dependent on sub-slab concentrations; based on matrices from October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

Appendix A – NYSDEC Institutional and Engineering Controls Certification Form

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

4/23/2018

Barbara Zulauf
Supervisor
The Town of Beekman
4 Main Street
Poughquag, NY 12570

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Beekman Town Garage
Site No.: 314094
Site Address: Beekman Poughquag Road
Beekman, NY 12570

Dear Barbara Zulauf:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **July 06, 2018**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Qualified Environmental Professional (QEP). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
http://www.dec.ny.gov/regulations/2586.html

The signed certification forms should be sent to Kevin Carpenter, Project Manager, at the following address:

New York State Department of Environmental Conservation
Division of Environmental Remediation, BURC
625 Broadway
Albany, NY 12233-7014

Phone number: 518-402-9799. E-mail: kevin.carpenter@dec.ny.gov

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures
Kevin Carpenter, Project Manager
Amen M. Omorogbe, Section Chief
Edward Moore, Hazardous Waste Remediation Engineer, Region 3

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7)**:**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **314094**

Site Name Beekman Town Garage

Site Address: Beekman Poughquag Road Zip Code: 12570
City/Town: Beekman
County: Dutchess
Site Acreage: 3.4

Reporting Period: June 06, 2015 to June 06, 2018

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 314094 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
p/o 6758-02-807742	Town of Beekman	Monitoring Plan Site Management Plan O&M Plan IC/EC Plan Ground Water Use Restriction Landuse Restriction

1. Compliance with the Deed Restriction by the Grantor and the Grantor's successors and assigns with all elements of the Site Management Plan (SMP)
2. All Engineering Controls must be operated and maintained as specified in the SMP
3. All Engineeiring Controls on the Controlled Property must be inspected and certified at a frequency and in a manner defined in the SMP.
4. Groundwater and soil vapor monitoring must be performed as defined in the SMP
5. Data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP.
6. On-site environmental monitoring devices, including groundwater monitoring wells and sub-slab depressurization systems, must be protected and replaced as necessary to ensure the devices function in the manner specified in the SMP

Box 4

Description of Engineering Controls

Parcel	Engineering Control
p/o 6758-02-807742	Vapor Mitigation Cover System

1. A cover system consiting of asphalt pavement is in place covering the area of excavated soil.
2. Sub-slab depressurizaiton systems are in place in the Sheriff's Substations, Block Garage, and Pole Barn
3. Natural attenuation of groundwater contaminants

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 314094

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Mary B. Covucci at 4Main Street, Poughquag NY 12570
print name print business address

am certifying as Owner/Designated Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Mary B. Covucci 7-26-18
Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I CHRISTOPHER B BROWN at PVE, LLC,
print name print business address

am certifying as a Qualified Environmental Professional for the TOWN OF BEEKMAN
(Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

7-23-18
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Appendix B – Groundwater Sampling Logs

Troll 9500 | **Low-Flow System**
10/13/17 | **ISI Low-Flow Log**

Project Information:		**Pump Information:**	
Operator Name	Anthony Spadavecchia	Pump Model/Type	Peri Pump
Company Name	PVE, LLC	Tubing Type	Silicon & Poly
Project Name	560581	Tubing Diameter	0.1 [cm]
Site Name	Beekman Highway Garage	Tubing Length	85.3 [m]
		Pump placement from TOC	75.46 [m]

Well Information:		**Pumping information:**	
Well Id	MW-4	Final pumping rate	375 [mL/min]
Well diameter	0.79 [cm]	Flowcell volume	367.97 [mL]
Well total depth	75.46 [m]	Calculated Sample Rate	59 [sec]
Depth to top of screen	42.65 [m]	Sample rate	59 [sec]
Screen length	47.24 [cm]	Stabilized drawdown	1.57 [cm]
Depth to Water	52.56 [m]		

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [mS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.1 +/-10 %	+/-0.1 +/-10 %	+/-0.1 +/-10 %	+/-0.1 +/-10 %	+/-0.1 +/-10 %
Last 5 Readings	10:39:41	15.85	7.21	1.66	18.85	10.69	-108.65
	10:40:40	15.41	7.21	1.67	17.41	10.95	-108.54
	10:41:41	16.58	7.22	1.66	17.91	10.27	-109.54
	10:42:39	14.14	7.22	1.65	19.96	11.74	-108.91
	10:43:40	13.90	7.22	1.65	18.88	11.90	-108.31
Variance in last 3 readings	10:41:41	0.08	0.00	-0.01	0.03	-0.06	0.01
	10:42:39	-2.44	0.01	-0.01	2.02	1.47	-0.26
	10:43:40	-0.25	0	0	-1.09	0.16	0.6

Troll 9500 **Low-Flow System**

12/1/2017 **ISI Low-Flow Log**

Project Information:		**Pump Information:**	
Operator Name	Benjamin Wolf	Pump Model/Type	Peri Pump
Company Name	PVE, LLC	Tubing Type	Silicon & Poly
Project Name	560581	Tubing Diameter	0.25 [in]
Site Name	Beekman Highway Garage	Tubing Length	22 [ft]
		Pump placement from TOC	21 [ft]

Well Information:		**Pumping information:**	
Well ID	MW-17	Final pumping rate	200 [mL/min]
Well diameter	2 [in]	Flowcell volume	329.36 [mL]
Well total depth	23 [ft]	Calculated Sample Rate	99 [sec]
Depth to top of screen	13 [ft]	Sample rate	99 [sec]
Screen length	120 [in]	Stabilized drawdown	4 [in]
Depth to Water	16.76 [ft]		

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [mS/cm]	Turb [NTU]	DO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1
			+/-10 %	+/-10 %	+/-10 %	+/-10 %	+/-10 %
Last 5 Readings	9:19:30	12.36	7.28	2.77	19.94	10.04	739.16
	9:21:10	12.02	7.28	2.70	19.45	10.23	742.33
	9:22:49	12.13	7.27	2.71	18.87	10.16	745.32
	9:24:29	11.87	7.26	2.70	19.09	10.31	748.53
	9:26:10	11.80	7.25	2.70	18.67	10.35	751.49
Variance in last 3 readings	9:22:49	0.11	-0.01	0.00	-0.58	-0.06	3.00
	9:24:29	-0.26	-0.01	-0.01	0.22	0.14	3.21
	9:26:10	-0.07	-0.01	0.00	-0.42	0.04	2.95

Appendix C – Laboratory Report for Groundwater Samples

ANALYTICAL REPORT

Job Number: 420-126854-1

SDG Number: Beekman Highway Garage

Job Description: PVE LLC

For:
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Attention: Christopher B. Brown

Meredith W Ruthven
Customer Service Manager
mruthven@envirotestlaboratories.com
09/29/2017

cc: Tara Alvarado

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554

METHOD SUMMARY

Client: PVE LLC

Job Number: 420-126854-1
SDG Number: Beekman Highway Garage

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	

Lab References:

EnvTest = EnviroTest

Method References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

METHOD / ANALYST SUMMARY

Client: PVE LLC

Job Number: 420-126854-1
SDG Number: Beekman Highway Garage

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA

SAMPLE SUMMARY

Client: PVE LLC

Job Number: 420-126854-1
SDG Number: Beekman Highway Garage

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-126854-1	FB-1 20170922	Drinking Water	09/22/2017 0900	09/22/2017 1545
420-126854-2	MW-4 20170922	Drinking Water	09/22/2017 0950	09/22/2017 1545
420-126854-3	Trip Blank-1 20170922	Drinking Water	09/22/2017 0955	09/22/2017 1545

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-126854-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **FB-1 20170922**
Lab Sample ID: **420-126854-1**

Date Sampled: 09/22/2017 0900
Date Received: 09/22/2017 1545
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2			Date Analyzed:	09/25/2017 1147		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-126854-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **FB-1 20170922**
Lab Sample ID: **420-126854-1**

Date Sampled: 09/22/2017 0900
Date Received: 09/22/2017 1545
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	89	%	71 - 120
Toluene-d8 (Surr)	108	%	79 - 121
1,2-Dichloroethane-d4 (Surr)	92	%	70 - 128

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-126854-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **MW-4 20170922**
Lab Sample ID: **420-126854-2**

Date Sampled: 09/22/2017 0950
Date Received: 09/22/2017 1545
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2			Date Analyzed:	09/25/2017 1219		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-126854-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **MW-4 20170922**
Lab Sample ID: **420-126854-2**

Date Sampled: 09/22/2017 0950
Date Received: 09/22/2017 1545
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	11	g	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	88	%	71 - 120
Toluene-d8 (Surr)	106	%	79 - 121
1,2-Dichloroethane-d4 (Surr)	95	%	70 - 128

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-126854-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **Trip Blank-1 20170922**
Lab Sample ID: **420-126854-3**

Date Sampled: 09/22/2017 0955
Date Received: 09/22/2017 1545
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2			Date Analyzed:	09/25/2017 1251		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-126854-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **Trip Blank-1 20170922**
Lab Sample ID: **420-126854-3**

Date Sampled: 09/22/2017 0955
Date Received: 09/22/2017 1545
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	88	%	71 - 120
Toluene-d8 (Surr)	108	%	79 - 121
1,2-Dichloroethane-d4 (Surr)	100	%	70 - 128

DATA REPORTING QUALIFIERS

Client: PVE LLC

Job Number:
Sdg Number: Beekman Highway Garage

Lab Section	Qualifier	Description
GC/MS VOA		
	g	Result fails applicable NYS drinking water standards
	U	The analyte was analyzed for but not detected at or above the lowest stated limit.

The following analytes are Not Part of the ELAP scope of accreditation:

Sulfur, Tungsten, Silicon, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide**,** Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Phenolphthalein Alkalinity, Solids (Fixed), Solids (Percent), Solids (Percent Moisture) **,** Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, Volatile Acids as Acetic Acid, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, Iron Bacteria, Salmonella, & Sulfur Reducing Bacteria.

The following analytes are Not Part of ELAP Potable Water scope of accreditation:

Cobalt (200.7, 200.8), Tin (200.7), Strontium (200.7), Gold (200.7), Platinum (200.7), Palladium (200.7), Titanium (200.7), Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), Naphthalene (502.2), o-Xylene (502.2, 524), & Fecal Coliform (9222D).

The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:

Dissolved Organic Carbon (5310C), Mecoprop (8151A), & MCPA (8151A).

Definitions and Glossary

Client: PVE LLC

Job Number:

Sdg Number: Beekman Highway Garage

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

EnviroTest Laboratories Inc.

CHAIN OF CUSTODY

126854

315 Fullerton Avenue
Newburgh, NY 12550
TEL (845) 562-0890
FAX (845) 562-0841

CUSTOMER NAME: PVE, LLC
ADDRESS: 48 SPRINGSIDE AVENUE
CITY, STATE, ZIP: POUGHKEEPSIE, NY 12603
NAME OF CONTACT: ANTHONY SPADAVECCHIA
PHONE NO.: 845-454-2544
PROJECT LOCATION: BEEKMAN HIGHWAY GARAGE
PROJECT NUMBER / PO NO.: 560581

REPORT TYPE
STANDARD ☑ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER NYS DEC EQUIS

TURNAROUND
☑ NORMAL
☐ QUICK
☐ VERBAL

REPORT # (Lab Use Only)
IR # 3

SAMPLE TEMP. 2.8 C
SAMPLE REC'D ON ICE ☑ Y ☐ N
ph CHECK ☐ Y ☐ N
CHLORINE (RESIDUAL) ☐ Y ☐ N
REVIEWED BY:

NY PUBLIC WATER SUPPLIES
SOURCE ID
ELAP TYPE
FEDERAL ID

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

ETL #	SAMPLING DATE	TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber HCL	250ml Amber Sulfuric	Liter Amber Organic Washed	250ml Plastic Nitric Acid	250ml Plastic Sodium Hydroxide	Liter Plastic	250ml Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Plastic NAOH/ZN ACC	40ml Glass Sulfuric	40ml Glass	DO	ANALYSIS REQUESTED
1	09/22	0900				FB-1 20170922	2	2*														524.2 VOCs
2	↓	0950			GW	MW-4 20170922	3	3														↓
3		0955				TRIP BLANK-1 20170922	2	2*														

LAB USE ONLY

420-126854-A-1
FB-1 20170922
Date Sampled: 9/22/2017
420-1109747

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECT TO THE ETL TERMS AND CONDITIONS OF SALE UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	PVE LLC	09-22-2017	1405				
SAMPLED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	PVE LLC	09-22-2017	1000				
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	EDR	9/22/17	545	A Elmendorf	ETL	9-22-17	1545

COMMENTS: PLEASE EMAIL ASPADAVECCHIA@PVE-LLC.COM AND CTARBELL@PVE-LLC.COM
*As per bottles. AE 9-22-17

NYSDOH 10142 NJDEP NY015 CTDOPH PH-0554 EPA NY00049

LOGIN SAMPLE RECEIPT CHECK LIST

Client: PVE LLC

Job Number: 420-126854-1
SDG Number: Beekman Highway Garage

Login Number: **126854**

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	2.8 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 420-127842-1

SDG Number: Beekman Highway Garage

Job Description: PVE LLC

For:
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Attention: Christopher B. Brown

Meredith W Ruthven
Customer Service Manager
mruthven@envirotestlaboratories.com
10/19/2017

cc: Tara Alvarado

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554

METHOD SUMMARY

Client: PVE LLC

Job Number: 420-127842-1
SDG Number: Beekman Highway Garage

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	

Lab References:

EnvTest = EnviroTest

Method References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

METHOD / ANALYST SUMMARY

Client: PVE LLC

Job Number: 420-127842-1
SDG Number: Beekman Highway Garage

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA

SAMPLE SUMMARY

Client: PVE LLC

Job Number: 420-127842-1
SDG Number: Beekman Highway Garage

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-127842-1	FB-1 20171013	Water	10/13/2017 1005	10/13/2017 1530
420-127842-2	MW-4 20171013	Water	10/13/2017 1045	10/13/2017 1530
420-127842-3	Trip Blank 20171013	Water	10/13/2017 1050	10/13/2017 1530

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-127842-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **FB-1 20171013**
Lab Sample ID: **420-127842-1**

Date Sampled: 10/13/2017 1005
Date Received: 10/13/2017 1530
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2			Date Analyzed:	10/13/2017 2205		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-127842-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **FB-1 20171013**
Lab Sample ID: **420-127842-1**

Date Sampled: 10/13/2017 1005
Date Received: 10/13/2017 1530
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	88	%	71 - 120
Toluene-d8 (Surr)	111	%	79 - 121
1,2-Dichloroethane-d4 (Surr)	109	%	70 - 128

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-127842-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **MW-4 20171013**
Lab Sample ID: **420-127842-2**

Date Sampled: 10/13/2017 1045
Date Received: 10/13/2017 1530
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2			Date Analyzed:	10/13/2017 2237		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-127842-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **MW-4 20171013**
Lab Sample ID: **420-127842-2**

Date Sampled: 10/13/2017 1045
Date Received: 10/13/2017 1530
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	10	g	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	88	%	71 - 120
Toluene-d8 (Surr)	109	%	79 - 121
1,2-Dichloroethane-d4 (Surr)	112	%	70 - 128

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-127842-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **Trip Blank 20171013**
Lab Sample ID: **420-127842-3**

Date Sampled: 10/13/2017 1050
Date Received: 10/13/2017 1530
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2			Date Analyzed:	10/13/2017 2309		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-127842-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **Trip Blank 20171013**
Lab Sample ID: **420-127842-3**

Date Sampled: 10/13/2017 1050
Date Received: 10/13/2017 1530
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	89	%	71 - 120
Toluene-d8 (Surr)	108	%	79 - 121
1,2-Dichloroethane-d4 (Surr)	110	%	70 - 128

DATA REPORTING QUALIFIERS

Client: PVE LLC

Job Number:
Sdg Number: Beekman Highway Garage

Lab Section	Qualifier	Description
GC/MS VOA		
	g	Result fails applicable NYS drinking water standards
	U	The analyte was analyzed for but not detected at or above the lowest stated limit.

The following analytes are Not Part of the ELAP scope of accreditation:

Sulfur, Tungsten, Silicon, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide**,** Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Phenolphthalein Alkalinity, Solids (Fixed), Solids (Percent), Solids (Percent Moisture) **,** Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, Volatile Acids as Acetic Acid, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, Iron Bacteria, Salmonella, & Sulfur Reducing Bacteria.

The following analytes are Not Part of ELAP Potable Water scope of accreditation:

Cobalt (200.7, 200.8), Tin (200.7), Strontium (200.7), Gold (200.7), Platinum (200.7), Palladium (200.7), Titanium (200.7), Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), Naphthalene (502.2), o-Xylene (502.2, 524), & Fecal Coliform (9222D).

The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:

Dissolved Organic Carbon (5310C), Mecoprop (8151A), & MCPA (8151A).

Definitions and Glossary

Client: PVE LLC

Job Number:

Sdg Number: Beekman Highway Garage

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

EnviroTest Laboratories Inc.

CHAIN OF CUSTODY

127842

315 Fullerton Avenue
Newburgh, NY 12550
TEL (845) 562-0890
FAX (845) 562-0841

CUSTOMER NAME: PVE, LLC
ADDRESS: 48 SPRINGSIDE AVENUE
CITY, STATE, ZIP: POUGHKEEPSIE, NY 12603
NAME OF CONTACT: ANTHONY SPADAVECCHIA PHONE NO. 845-667-4354
PROJECT LOCATION: BECKMAN HIGHWAY GARAGE
PROJECT NUMBER / PO NO.: 560581

REPORT TYPE
STANDARD ☑ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER NYSDEC EDD EQUIS

TURNAROUND
☑ NORMAL
☐ QUICK
☐ VERBAL

REPORT # (Lab Use Only)
IR# 3

SAMPLE TEMP. 3.1 C
SAMPLE REC'D ON ICE ☑ Y ☐ N
ph CHECK ☐ Y ☐ N
CHLORINE (RESIDUAL) ☐ Y ☐ N
REVIEWED BY:

NY PUBLIC WATER SUPPLIES
SOURCE ID
ELAP TYPE
FEDERAL ID

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

ETL #	SAMPLING DATE	TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber HCL	250ml Amber Sulfuric	Liter Amber Organic Washed	250ml Plastic Nitric Acid	250ml Plastic Sodium Hydroxide	Liter Plastic	250ml Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Plastic NAOH/ZN ACC	40ml Glass Sulfuric	40ml Glass	DO	ANALYSIS REQUESTED
1	10/13	1005				FB-1 20171013	2	2														524.2 VOCs
2	↓	1045			GW	MW-4 20171013	3	3														↓
3		1050				TRIP BLANK 20171013	2	2														

LAB USE ONLY

420-127842-A-1
FB-1 20171013
Date Sampled: 10/13/2017 420-1120167

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECT TO THE ETL TERMS AND CONDITIONS OF SALE UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
	PVE, LLC	10-13-17	2PM		ETL	10/13/17	2PM
	PVE LLC	10-13-17	1100				
	ETL	10/13/17	330	A Almendorf	ETL	10-13-17	1530

COMMENTS: PLEASE EMAIL ASPADAVECCHIA@PVE-LLC.COM; CTARBELL@PVE-LLC.COM

LOGIN SAMPLE RECEIPT CHECK LIST

Client: PVE LLC

Job Number: 420-127842-1
SDG Number: Beekman Highway Garage

Login Number: **127842**

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	3.1 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 420-129981-1

SDG Number: Beekman Highway Garage

Job Description: PVE LLC

For:
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Attention: Christopher B. Brown

Meredith W Ruthven
Customer Service Manager
mruthven@envirotestlaboratories.com
12/13/2017

cc: Tara Alvarado

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554

METHOD SUMMARY

Client: PVE LLC

Job Number: 420-129981-1
SDG Number: Beekman Highway Garage

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	

Lab References:

EnvTest = EnviroTest

Method References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

METHOD / ANALYST SUMMARY

Client: PVE LLC

Job Number: 420-129981-1
SDG Number: Beekman Highway Garage

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA

SAMPLE SUMMARY

Client: PVE LLC

Job Number: 420-129981-1
SDG Number: Beekman Highway Garage

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-129981-1	MW-17 20171201	Water	12/01/2017 1130	12/01/2017 1600

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-129981-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **MW-17 20171201**
Lab Sample ID: **420-129981-1**

Date Sampled: 12/01/2017 1130
Date Received: 12/01/2017 1600
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 524.2			Date Analyzed:	12/04/2017 1509		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0

Christopher B. Brown
PVE LLC
48 Springside Ave.
Poughkeepsie, NY 12603

Job Number: 420-129981-1
Sdg Number: Beekman Highway Garage

Client Sample ID: **MW-17 20171201**
Lab Sample ID: **420-129981-1**

Date Sampled: 12/01/2017 1130
Date Received: 12/01/2017 1600
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
m,p-Xylene	1.0	U	ug/L	1.0	1.0	1.0
Methyl-t-butyl ether	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.52		ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	81	%	71 - 120
Toluene-d8 (Surr)	101	%	79 - 121
1,2-Dichloroethane-d4 (Surr)	95	%	70 - 128

DATA REPORTING QUALIFIERS

Client: PVE LLC

Job Number:
Sdg Number: Beekman Highway Garage

Lab Section	Qualifier	Description
GC/MS VOA		
	U	The analyte was analyzed for but not detected at or above the lowest stated limit.

The following analytes are Not Part of the ELAP scope of accreditation:

Sulfur, Tungsten, Silicon, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide**,** Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Phenolphthalein Alkalinity, Solids (Fixed), Solids (Percent), Solids (Percent Moisture) **,** Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, Volatile Acids as Acetic Acid, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, Iron Bacteria, Salmonella, & Sulfur Reducing Bacteria.

The following analytes are Not Part of ELAP Potable Water scope of accreditation:

Cobalt (200.7, 200.8), Tin (200.7), Strontium (200.7), Gold (200.7), Platinum (200.7), Palladium (200.7), Titanium (200.7), Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), Naphthalene (502.2), o-Xylene (502.2, 524), & Fecal Coliform (9222D).

The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:

Dissolved Organic Carbon (5310C), Mecoprop (8151A), & MCPA (8151A).

Definitions and Glossary

Client: PVE LLC

Job Number:

Sdg Number: Beekman Highway Garage

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

EnviroTest Laboratories Inc.

CHAIN OF CUSTODY

129981

315 Fullerton Avenue
Newburgh, NY 12550
TEL (845) 562-0890
FAX (845) 562-0841

CUSTOMER NAME: PVE, LLC
ADDRESS: 48 Springside Avenue
CITY, STATE, ZIP: Poughkeepsie, NY, 12603
NAME OF CONTACT: Anthony Spadevecchia PHONE NO.: 845-454-2544
PROJECT LOCATION: BEEKMAN HIGHWAY GARAGE
PROJECT NUMBER / PO NO.: 560581

REPORT TYPE
STANDARD ☒ ISRA ☐
NJ REG ☐
NYASP A ☐ B ☐ CLP ☐
OTHER NYSDEC EDD EQUIS

TURNAROUND
☒ NORMAL
☐ QUICK
☐ VERBAL

REPORT # (Lab Use Only)
IR #3
SAMPLE TEMP. 2.5° C
SAMPLE REC'D ON ICE ☑ Y ☐ N
ph CHECK ☐ Y ☐ N
CHLORINE (RESIDUAL) ☐ Y ☐ N
REVIEWED BY:

NY PUBLIC WATER SUPPLIES
SOURCE ID
ELAP TYPE
FEDERAL ID

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

Matrix
DW = DRINKING WATER S = SOIL O = OIL
WW = WASTE WATER SL = SLUDGE GW = GROUND WATER

ETL #	SAMPLING DATE	SAMPLING TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber HCL	250ml Amber Sulfuric	Liter Amber Organic Washed	250ml Plastic Nitric Acid	250ml Plastic Sodium Hydroxide	Liter Plastic	250ml Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Plastic NAOH/ZN ACC	40ml Glass Sulfuric	40ml Glass	DO	ANALYSIS REQUESTED
1	12/01	1130			GW	MW-17 20171201	3	3														524.2 VOCs

LAB USE ONLY

420-129981-A-1
MW-17 20171201
Date Sampled: 12/1/2017 420-1140207

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECT TO THE ETL TERMS AND CONDITIONS OF SALE UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Benjamin Wolff	PVE, LLC	12/1/17	1503	G. Vi.	ETL	12-1-17	15:03
SAMPLED BY: Benjamin Wolff	PVE, LLC	12/1/17	1130	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY: G. Vi.	ETL	12-1-17	16:00	RECEIVED BY: A Almendarez	ETL	12-1-17	1600

COMMENTS

LOGIN SAMPLE RECEIPT CHECK LIST

Client: PVE LLC

Job Number: 420-129981-1
SDG Number: Beekman Highway Garage

Login Number: **129981**

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	2.5 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Appendix D – Vapor Mitigation Operation and Maintenance Inspection Forms

BLOCK GARAGE NORTH

Sub-Slab Depressurization System Operation and Maintenance Inspection Form

Date	Location	U-Tube Manometer Reading	Notes/Comments
10-21-15	Block Garage	-1.5"	—
2-9-16	NORTH	-1.52"	—
4-19-16		-1.5"	—
9-14-16		-1.5"	—
11-16-16		-1.5"	—
2-16-17		-1.45"	—

BLOCK GARAGE SOUTH

Sub-Slab Depressurization System Operation and Maintenance Inspection Form

Date	Location	U-Tube Manometer Reading	Notes/Comments
10-21-15	BLOCK GARAGE	-1.25"	—
2-9-16	SOUTH	-1.25	—
4-19-16		-1.3	—
9-14-16		-1.25	—
11-16-16		-1.25	—
2-16-17		-1.50	—

POLE BARN - EAST

Sub-Slab Depressurization System Operation and Maintenance Inspection Form

Date	Location	U-Tube Manometer Reading	Notes/Comments
10-21-15	Pole Barn - East	- 0.675	—
2-9-16		OFFLINE	—
4-19-16		-1.0	FAN REPLACED
9-14-16		-1.6	—
11-16-16		-1.0	—
2-16-17		-1.0	—

POLE BARN WEST

Sub-Slab Depressurization System Operation and Maintenance Inspection Form

Date	Location	U-Tube Manometer Reading	Notes/Comments
10-21-15	Pole Barn West	-1.15	—
2-9-16		-1.0	—
4-19-16		-1.0	—
9-14-16		-1.0	—
11-16-16		-1.0	—
2-16-17		-2.0	—

SHERIFF SUBSTATION

Sub-Slab Depressurization System Operation and Maintenance Inspection Form

Date	Location	U-Tube Manometer Reading	Notes/Comments
10-21-15	Sheriff Substation	-1.5"	~
2-9-16		-1.5"	~
4-19-16		-1.5"	FAN REPLACED TODAY
9-14-16		-1.75"	~
11-16-16		-1.5"	~
2-16-17		-1.75"	~

Appendix E – Laboratory Report for Indoor Air Samples

Centek Laboratories, LLC

Date: *27-Feb-17*

CLIENT:	PVE, LLC	**Client Sample ID:**	IA-1 20170216
Lab Order:	C1702055	**Tag Number:**	554.394
Project:	Beekman Highway Garage	**Collection Date:**	2/16/2017
Lab ID:	C1702055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-5			"Hg		2/20/2017
Lab Vacuum Out	-30			"Hg		2/20/2017
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/20/2017 4:10:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Acetone	8.5	3.0		ppbV	10	2/20/2017 6:09:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Benzene	0.17	0.15		ppbV	1	2/20/2017 4:10:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Chloromethane	0.57	0.15		ppbV	1	2/20/2017 4:10:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *27-Feb-17*

CLIENT:	PVE, LLC	**Client Sample ID:**	IA-1 20170216
Lab Order:	C1702055	**Tag Number:**	554.394
Project:	Beekman Highway Garage	**Collection Date:**	2/16/2017
Lab ID:	C1702055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Freon 11	0.20	0.15		ppbV	1	2/20/2017 4:10:00 PM
Freon 113	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Freon 12	0.38	0.15		ppbV	1	2/20/2017 4:10:00 PM
Heptane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Hexane	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Isopropyl alcohol	4.9	1.5		ppbV	10	2/20/2017 6:09:00 PM
m&p-Xylene	0.11	0.30	J	ppbV	1	2/20/2017 4:10:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/20/2017 4:10:00 PM
Methyl Ethyl Ketone	0.23	0.30	J	ppbV	1	2/20/2017 4:10:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	2/20/2017 4:10:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Methylene chloride	0.33	0.15		ppbV	1	2/20/2017 4:10:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Tetrachloroethylene	0.70	0.15		ppbV	1	2/20/2017 4:10:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Toluene	0.25	0.15		ppbV	1	2/20/2017 4:10:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Trichloroethene	0.11	0.15	J	ppbV	1	2/20/2017 4:10:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	2/20/2017 4:10:00 PM
Surr: Bromofluorobenzene	92.0	70-130		%REC	1	2/20/2017 4:10:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *27-Feb-17*

CLIENT:	PVE, LLC	**Client Sample ID:**	IA-2 20170216
Lab Order:	C1702055	**Tag Number:**	245.375
Project:	Beekman Highway Garage	**Collection Date:**	2/16/2017
Lab ID:	C1702055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-5			"Hg		2/20/2017
Lab Vacuum Out	-30			"Hg		2/20/2017
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,2,4-Trimethylbenzene	2.9	1.5		ppbV	10	2/20/2017 6:47:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,3,5-Trimethylbenzene	0.82	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	2/20/2017 4:50:00 PM
2,2,4-trimethylpentane	1.8	0.15		ppbV	1	2/20/2017 4:50:00 PM
4-ethyltoluene	0.87	0.15		ppbV	1	2/20/2017 4:50:00 PM
Acetone	23	3.0		ppbV	10	2/20/2017 6:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Benzene	1.0	0.15		ppbV	1	2/20/2017 4:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Chloroform	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Chloromethane	0.59	0.15		ppbV	1	2/20/2017 4:50:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Cyclohexane	1.1	0.15		ppbV	1	2/20/2017 4:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Ethyl acetate	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *27-Feb-17*

CLIENT:	PVE, LLC	**Client Sample ID:**	IA-2 20170216
Lab Order:	C1702055	**Tag Number:**	245.375
Project:	Beekman Highway Garage	**Collection Date:**	2/16/2017
Lab ID:	C1702055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	1.6	0.15		ppbV	1	2/20/2017 4:50:00 PM
Freon 11	0.20	0.15		ppbV	1	2/20/2017 4:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Freon 12	0.39	0.15		ppbV	1	2/20/2017 4:50:00 PM
Heptane	1.7	0.15		ppbV	1	2/20/2017 4:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Hexane	2.5	0.15		ppbV	1	2/20/2017 4:50:00 PM
Isopropyl alcohol	15	0.15		ppbV	1	2/20/2017 4:50:00 PM
m&p-Xylene	5.2	0.30		ppbV	1	2/20/2017 4:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	2/20/2017 4:50:00 PM
Methyl Ethyl Ketone	0.76	0.30		ppbV	1	2/20/2017 4:50:00 PM
Methyl Isobutyl Ketone	0.31	0.30		ppbV	1	2/20/2017 4:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Methylene chloride	0.34	0.15		ppbV	1	2/20/2017 4:50:00 PM
o-Xylene	2.3	0.15		ppbV	1	2/20/2017 4:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Tetrachloroethylene	0.69	0.15		ppbV	1	2/20/2017 4:50:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Toluene	6.4	0.15		ppbV	1	2/20/2017 4:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	2/20/2017 4:50:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	2/20/2017 4:50:00 PM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Labs - Chain of Custody

Centek Laboratories

143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com
Vapor Intrusion & IAQ

Site Name: BEEKMAN HIGHWAY GARAGE
Project:
PO#: 560581
Quote # Q-
Canister Order #: SP / BO 6326

Detection Limit	Report Level
☐ 5ppbv	☒ Level I
☒ 1ug/M3	☐ Level II
☐ 1ug/M3 +TCE .25	☐ Cat "B" Like

TAT Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☒	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
*Next Day by 5pm	☐	100%	
*Next Day by Noon	☐	150%	
*Same Day	☐	200%	

*For Same and Next Day TAT Please Notify Lab

Company: PVE, LLC - Poughkeepsie

Report to:
Address: 48 SPRINGSIDE AVENUE
City, State, Zip: POUGHKEEPSIE NY. 12603
Email: ASPADAVECCHIA@PVE-LLC.COM; CTARBELL@PVE-LLC.COM
Phone: 845-454-2544

Company: Check Here If Same: ☒

Invoice to:
Address:
City, State, Zip:
Email: TALVARDO@PVE-LLC.COM
Phone:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start / Stop	Labs Vacuum** RecV/Analysis	Comments (TIME) 2-16-17 2-17-17
IA-1 20170216	2-16-17 → 2-17-17	554	394	TO-15	30+ / 7"	-5 /	1339 → 1339
IA-2 20170216	2-16-17 → 2-17-17	245	375	TO-15	30 / 7"	-5 /	1350 → 1350
					/	/	
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Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	ANTHONY SPADAVECCHIA	Anthony Spadavecchia	2-16-17 / 1339
Relinquished by:	ANTHONY SPADAVECCHIA	Anthony Spadavecchia	2-17-17 / 1440
Received at Lab by:	NICK MANDARINO	NM	2-20-17

Courier: CIRCLE ONE
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Appendix F – NYSDEC CORRESPONDENCE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 11th Floor, Albany, NY 12233-7014
P: (518) 402-9662 I F: (518) 402-9679
www.dec.ny.gov

January 6, 2016

Mr. Christopher B. Brown, CPG
Principal\Director of Environmental Services
PVE SHEFFLER, LLC.
48 Springside Avenue, Poughkeepsie, New York 12603

Subject: Beekman Town Highway Garage Request to Discontinue Groundwater Monitoring
NYSDEC #3-14-094
PVE Sheffler File # 560581

Dear Mr. Brown,

The New York State Department of Environmental Conservation (Department) has reviewed the request to discontinue groundwater monitoring at the subject site as communicated in your letter dated October 27, 2015.

Based upon a review of the analytical results from site monitoring well samples subsequent to excavation of source area soils, we find that the data indicate that the dissolved VOC concentrations have declined and continue to decline. Data from the monitoring wells at the downgradient property line are below groundwater standards and have been for a number of years. The concentrations are expected to continue to remain below standards in the downgradient wells. The data also show that concentrations of dissolved VOCs in the core of the plume remain above groundwater standards in proximity to the former source areas and beneath the occupied on-site structures (pole barn and block garage).

Because the data indicate that the dissolved VOC plume and is stable and/or shrinking and the plume is expected to continue to shrink, the Department supports a reduction in groundwater monitoring locations and frequency. However, because dissolved VOC concentrations remain above groundwater standards in the core of the plume, and because sub-slab depressurization systems are required in this area to maintain the protectiveness of the indoor air quality in the occupied structures, the Department cannot at this time support complete elimination of all groundwater monitoring.

The Department is supportive of terminating groundwater monitoring at all existing monitoring wells except for well MW-4 in the core of the plume and down gradient well MW-17. It is the Department's policy (CP-43) that groundwater monitoring wells must be properly decommissioned when their effective life has been reached. Therefore, a work plan describing how the monitoring wells which will no longer be utilized will be decommissioned.

Regarding frequency of groundwater monitoring, the Department is supportive of a reduction in frequency to once every three years beginning from the most recent round of sampling.

The site management plan (SMP) must be modified to reflect the above changes. Please submit a letter proposing modifications to the SMP to reflect the above changes if acceptable.

Upon approval of the above to required submittals, the town may proceed with implementation of these changes. Please contact me at (518) 402-9799 with any questions.

Sencerely,

Kevin Carpenter, P.E.
Senior Environmental Engineer
NYSDEC – Division of Environmental Remediation
Remedial Bureau C
625 Broadway, 11th Floor
Albany, NY 12233-7014

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