

Brownfields Phase II ESA Report
211 Route 9 West
Wilmington, Vermont



EPA RFA 19093

June 30, 2024

Prepared for:

Windham Regional Commission
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LEE #23-225



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1.0 EXECUTIVE SUMMARY

LE Environmental LLC (LEE) conducted a Brownfields Phase II Environmental Site Assessment (ESA) at the property located at 211 Route 9 West in Wilmington, Vermont, Windham County, Vermont (Site). The ESA was conducted pursuant to the approved Site-Specific Quality Assurance Project Plan Addendum (SSQAPP Addendum) dated January 11, 2024, approved on February 22, 2024, and the American Society of Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (ASTM E 1903-19). This assessment was conducted for the Windham Regional Commission (WRC) on behalf of Wheelpad L3C and was funded by WRC via EPA Brownfields Assessment Grant cooperative agreement #BF 00A01263. The Site owner is Druke-Fawcett LLC.

The Site contains one parcel of land, approximately 3.41 acres in size, on the north side of Route 9 West in Wilmington. The Site is served by a drilled drinking water well located on a nearby property to the southeast and a municipal sewer system. The Site was developed circa 1964 and was connected to the municipal sewer system in late 1980 or early 1981 and had an on-Site septic system prior to the sewer connection.

Historic Site uses included a retail hardware store and lumber yard, and a machine shop. The machine shop began operation circa 1964. The date the machine shop ended operations is unknown, but it was operating in 1996 when an environmental site investigation took place. The retail hardware store and lumber yard began operations in 2012.

The Site is a state-listed hazardous waste Site due to a leaking fuel oil underground storage tank (UST) that released petroleum in the adjoining river via a stormwater culvert. The fuel oil UST was closed-in-place and an environmental site investigation was conducted. The Site received a Sites Management Activity Complete (SMAC) letter on December 24, 1996.

LEE identified six Recognized Environmental Conditions (RECs) during the Phase I ESA:

1. The past use of the subject property as a machine shop, which likely used hazardous substances and petroleum products.
2. The discarded and abandoned containers on the west side of the main building.
3. The leaking drum on the concrete pad on the eastern portion of the subject property is considered a REC since a release has occurred.
4. The closed-in-place fuel oil UST is considered an historical REC and a REC due to residual contamination left in place near the UST.
5. The sump in the basement of the main building is a REC due to its existence during machine shop operations.



6. The abandoned septic system on the subject property is a REC due to its existence during machine shop operations.

A Phase II ESA was recommended to determine whether contamination is present on the property due to the identified RECs.

A geophysical investigation performed at the Site in November 2023. The existing closed-in-place fuel oil UST was located, and evidence of an apparent historic septic system was observed south of the main building.

Eight soil borings were advanced with a Geoprobe drill rig during the Phase II ESA. The soil borings were driven to depths ranging from approximately 2.5' bg at SB-5 to 10' bg at SB-3. Refusal was noted at each soil boring, likely due to dense glacial till underlying the Site.

Soils on the Site consist primarily of dense glacial till with varying amounts of sand, gravel, silt, and clay. Silts and clays were more apparent with depth. Soils in the vicinity of SB-3, near the closed-in-place UST, consisted largely of sand and appear to be fill soil. No PID readings above 1 ppm were obtained in soils during drilling.

Shallow soil samples, from 0-1.5' below grade (bg) were obtained from each soil boring, and two deeper soil samples were obtained from the vicinity of the closed-in-place fuel oil UST and the former septic leachfield.

No VOCs or PCBs were reported above laboratory detection limits in any of the soil samples collected on the Site. Concentrations of metals were reported in all of the soil samples collected. None of the metals concentrations exceeded residential regulatory standards. The PAH TEQ concentrations were all below residential Vermont Soil Standard (VSS) except at one location. The PAH TEQ concentration at SB-6s was 0.14 ppm, which exceeds the residential VSS of 0.07 ppm. This soil is currently under a paved parking lot.

Groundwater monitoring wells were installed at four soil boring locations, and four groundwater samples were obtained during this investigation. The depth to water ranged from 2.55' bg at MW-2 to 3.80' bg at MW-3. The overall groundwater flow beneath the Site appears to be toward the south at a hydraulic gradient of approximately 0.7%.

No concentrations of volatile organic compounds (VOCs) were reported above laboratory detection limits in the groundwater samples collected except the duplicate sample, which contained chloromethane at 11 parts per billion. There is no Vermont Groundwater Enforcement Standard (VGES) for this compound. Concentrations of metals were detected in each of the groundwater samples collected. None of the metals concentrations exceeded the VGES.



Two sub-slab soil vapor samples were obtained from the main building. Concentrations of ethylbenzene were reported in both sub-slab vapor samples, and the ambient air sample. Concentrations of benzene and carbon tetrachloride were reported in the ambient air sample but none of the sub-slab samples. VP-1 contained concentrations of tetrachloroethene and 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene was reported in both VP-1 and VP-2. None of the reported concentrations exceeded the residential or non-residential Vapor Intrusion Standard (VIS).

Seven samples of concrete floor were obtained and tested for PCBs. No PCBs were reported above laboratory detection limits in samples CS-3, CS-4, CS-5, CS-6, or CS-7. Concentrations of PCBs were reported in samples CS-1, CS-2, and the duplicate sample. The reported concentrations were below the TSCA standard of 1 part per million.

LEE recommends additional delineation of soil contamination in the vicinity of SB-6s to further define the extent of the PAH exceedance.

2.0 SITE INFORMATION

LE Environmental LLC (LEE) conducted a Brownfields Phase II Environmental Site Assessment (ESA) at the property located at 211 Route 9 West in Wilmington, Vermont, Windham County, Vermont (Site). The ESA was conducted pursuant to the approved Site-Specific Quality Assurance Project Plan Addendum (SSQAPP Addendum) dated January 11, 2024, approved February 22, 2024, and the American Society of Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (ASTM E 1903-19). This assessment was conducted for the Windham Regional Commission (WRC) on behalf of Wheelpad L3C and was funded by WRC via EPA Brownfields Assessment Grant cooperative agreement #BF 00A01263. The Site owner is Druke-Fawcett LLC.

Site Information Table	
Site Owner Name	Druke-Fawcett LLC
Site Owner Address	551 Route 30, Newfane, VT 05345
Site Owner E-mail	SWolf@wwbuilding.com
Site Owner Phone	(802) 365-6139

3.0 CURRENT USE OF THE SITE

The Site is currently used for storage of building materials such as lumber, paint, windows, doors, caulks, and wood pellets. The Site is also used for fabrication of personal accessible dwellings and home attachment dwellings.



4.0 CURRENT ADJOINING PROPERTY USES

Land uses of adjacent parcels is as follows:

- North: Wilmington Town Garage, VAST Trail
- East: Motel
- South: Self-storage facility, North Branch of the Deerfield River, Route 9
- West: Offices

5.0 SITE DESCRIPTION

The Site contains one parcel of land, approximately 3.41 acres in size, on the north side of Route 9 West in Wilmington. The Site is served by a drilled drinking water well located on a nearby property to the southeast and a municipal sewer system. The Site was first developed circa 1964 and was connected to the municipal sewer system in late 1980 or early 1981, and likely had an on-Site septic system prior to that.

The Site contains three structures. The main building is a one-story concrete block building with a partial basement. The main building is heated via fuel oil furnaces. The Morton building is a pole barn type building with metal siding and a metal roof. The building is unheated and has a dirt floor. The lumber tree building is an open sided truss structure with a metal roof. The building is unheated and has a dirt floor.

6.0 LATITUDE/LONGITUDE

The Site coordinates are 42° 52' 27.95" north latitude and 72° 53' 17.88" west longitude.

7.0 PROPERTY HISTORY

The Site was developed circa 1964. Historic Site uses included a retail hardware store and lumber yard, and a machine shop. The machine shop began operation circa 1964. The date the machine shop ended operations is unknown, but it was operating in 1996 when an environmental site investigation took place. The retail hardware store and lumber yard began operations in 2012.

The Site is a state-listed hazardous waste Site due to a leaking fuel oil underground storage tank (UST) that released petroleum in the adjoining river via a stormwater culvert. The fuel oil UST was closed-in-place and an environmental site investigation was conducted. The Site received a Sites Management Activity Complete (SMAC) letter on December 24, 1996.



A geophysical investigation performed at the Site in November 2023. An existing closed-in-place fuel oil UST was located, and evidence of an apparent historic septic system was observed.

LEE identified six Recognized Environmental Conditions (RECs) during the Phase I ESA:

1. The past use of the subject property as a machine shop, which likely used hazardous substances and petroleum products.
2. The discarded and abandoned containers on the west side of the main building.
3. The leaking drum on the concrete pad on the eastern portion of the subject property is considered a REC since a release has occurred.
4. The closed-in-place fuel oil UST is considered an historical REC and a REC due to residual contamination left in place near the UST.
5. The sump in the basement of the main building is a REC due to its existence during machine shop operations.
6. The abandoned septic system on the subject property is a REC due to its existence during machine shop operations.

A Phase II ESA was recommended to determine whether contamination is present on the property due to the identified RECs.

8.0 SITE CONTAMINANT BACKGROUND

A. Release Date and Description

Evidence of a release of hazardous substances at the Site was observed in shallow soil during this Phase II ESA. The exceedance of regulatory residential soil standards is noted below:

1. Shallow soils are impacted with PAHs above the Vermont Residential Soil Standard in one location at the Site.

B. Release Report Date

The contaminant exceedances are being reported via submittal of this document to the DEC.

C. Release Response Actions

No release response actions have been completed for the reported release.



D. Previous Environmental Documents

The following previous environmental documents exist for this Site and are on file with the DEC:

- Phase I Environmental Site Assessment Report dated August 24, 2023.
- Site-Specific Quality Assurance Project Plan Addendum dated January 11, 2024.

E. Copy of Previous Environmental Documents

The referenced Phase I ESA report and SSQAPP Addendum are on-file with the DEC in Montpelier, Vermont. Previous environmental investigation reports including an Environmental Site Investigation Report dated July 1, 1996 and a Sites Management Activity Complete Letter dated December 14, 1996 are also on-file with the DEC.

F. List of Governmental Records Reviewed

LEE reviewed various governmental records during and preceding this Phase II ESA, including records reviewed during the Phase I ESA:

- Town of Wilmington Land Records
- State of Vermont Department of Environmental Conservation Hazardous Sites List, Solid Waste Facilities list, Leaking UST and Above-ground Storage Tank database, Brownfields List
- EPA National Priorities List (NPL), Proposed NPL, Delisted NPL, CERCLIS, RCRA CORRACTS, RCRA TSDF, RCRA Generators database, Institutional Controls inventory, Emergency Response Notification System

9.0 UPDATED CONCEPTUAL SITE MODEL

A. Updated Site Conceptual Model

The Site is located in a predominantly rural portion of the Town of Wilmington. The character of the area is mixed-use with residential, commercial, and industrial enterprises. The Site slopes gently to the south, toward the Second Branch of the Deerfield River.

A seep is located on the southern portion of the Site, on the driveway. The water was being conveyed via overland flow into a storm drain on an adjoining property. A sump pump is used to remove water from the basement, which outlets onto the parking lot and flows southward down the driveway. There is a pond on the southwestern portion of the Site.



The Site was developed circa 1964. Historic Site uses included a retail hardware store and lumber yard, and a machine shop. The machine shop began operation circa 1964. The date the machine shop ended operations is unknown but it was still operating in 1996 when an environmental site investigation took place. The retail hardware store and lumber yard began operations in 2012.

The main building is heated via fuel oil stored in (2) 500-gallon ASTs in the basement. No spills have been noted in their vicinity. The main building was historically heated via the closed-in-place fuel oil UST. The basement was covered with approximately 2-inches of water during the Phase I and this Phase II ESA. The main building also has a 150-gallon propane AST on the eastern exterior wall, which was reportedly used in the past for a heater that has since been removed. The Morton building and the lumber tree building are not currently heated.

Depth to groundwater is very shallow at the Site. The measured depth to water in May 2024 ranged from 2.55' below grade (bg) at MW-2 to 3.80' bg at MW-3. Groundwater flows toward the south at a hydraulic gradient of approximately 0.7%.

Bedrock in the vicinity of the subject property consists of lower Cambrian and Neoproterozoic schist. The overburden deposits in the area of the subject property are mapped as glaciofluvial outwash.¹ Shallow refusal was noted in each of the borings advanced during this Phase II ESA, from 2.5' bg at SB-5 to 10' bg feet below grade at SB-3.

Soils on the Site consist primarily of dense glacial till with varying amounts of sand, gravel, silt, and clay. Silts and clays were more apparent with depth. Soils in the vicinity of SB-3, near the closed-in-place UST, consisted largely of sand and appear to be fill soil.

No VOCs or PCBs were reported above laboratory detection limits in any of the soil samples collected on the Site. Concentrations of metals were reported in all of the soil samples collected. None of the metals concentrations exceeded residential regulatory standards. The PAH TEQ concentrations were all below residential standards except at one location. The PAH TEQ concentration at SB-6s was 0.14 ppm, which exceeds the residential standard of 0.07 ppm. This soil is currently under a paved parking lot.

No concentrations of VOCs were reported above laboratory detection limits in the groundwater samples collected during the Phase II ESA except the duplicate sample, which contained chloromethane at 11 parts per billion. There is no VGES for this compound. Concentrations of metals were detected in each of the groundwater samples collected. None of the metals concentrations exceeded the VGES.

¹ Vermont Agency of Natural Resources Natural Resources Atlas.



No VOCs above the residential or non-residential VIS were reported in the sub-slab soil vapor samples obtained during the Phase II ESA. Seven samples of concrete floor were obtained and tested for PCBs. No PCBs were reported above laboratory detection limits in samples CS-3, CS-4, CS-5, CS-6, or CS-7. Concentrations of PCBs were reported in samples CS-1, CS-2, and the duplicate sample. The reported concentrations were below the TSCA standard of 1 part per million.

B. Potential Contamination Sources

The most apparent source of contamination at the Site include: shallow soil under a portion of the paved parking lot contains Benzo(a)Pyrene TEQ concentrations in excess of residential standards. The source for this exceedance is unknown and may be related to leaching of the asphalt into the underlying soil.

C. Utility Corridors

Buried utilities exist on the Site including buried electrical and sewer lines. No soil, soil gas, or groundwater contamination was detected in the vicinity of these. The utility corridors are not believed to be impacted by the contaminated.

D. Water Bodies and Wetlands

There is a pond on the southwestern portion of the subject property. There appears to be wetland vegetation in the vicinity of the pond. No sheens or odors were noted in the vicinity of the pond during the Phase II ESA. Given the lack of contamination detected in the groundwater, no water bodies are believed to be impacted at this time.

E. Water Supplies

The Site is served by a private water supply well on an adjoining property. The water supply is not likely impacted since contamination was not detected in the groundwater at the Site.

F. Site Users

Potential receptors of contamination include on-Site workers and future tenants. Shallow soils are impacted with PAHs at one location on the Site. The soils are under a paved parking area and no completed exposure pathways are known to exist.



10.0 WORK PLAN DEVIATIONS

All of the work described in the approved SSQAPP Addendum dated January 11, 2024 was performed as described with the following deviations:

- Shallow refusal was encountered in each of the soil borings, and they were not able to be advanced as far as indicated in the SSQAPP. Advancement was into the groundwater table at each boring location except at SB-5.
- Soil gas samples were obtained from the first floor of the main building instead of the basement due to the basement being flooded with water and the shallow groundwater table observed at the Site.

11.0 SAMPLE COLLECTION DOCUMENTATION

The following tables outline the location of samples, the method of collection, and the well or soil boring identification number.

Soil Samples			
Sample ID	Depth (ft bg)	Analytical Methods	Collection Method
SB-1S	0-1.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
SB-2S	0-1.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
SB-3S	0-1.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
SB-3D	8-9.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
SB-4S	0-1.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
SB-4D	4-5.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
SB-5S	0-1.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve



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Sample ID	Depth (ft bg)	Analytical Methods	Collection Method
SB-6S	0-1.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
SB-7S	0-1.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
SB-8S	0-1.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve
Duplicate	4-5.5	VOCs via 8260C PAHs via 8270D RCRA 8 Metals via 6020 PCBs via 8082	Grab from Sample Sleeve

Groundwater Samples

Sample ID	Analytical Methods	Collection Method
MW-1	VOCs via 8260C RCRA 8 Metals via 6020	Grab via Low Flow Sampling
MW-2	VOCs via 8260C RCRA 8 Metals via 6020	Grab via Low Flow Sampling
MW-3/Duplicate	VOCs via 8260C RCRA 8 Metals via 6020	Grab via Low Flow Sampling
MW-4	VOCs via 8260C RCRA 8 Metals via 6020	Grab via Low Flow Sampling

Soil Gas Samples

Sample ID	Analytical Methods	Collection Method
VP-1	VOCs via TO-15	Grab via 6L Summa Canister
VP-2	VOCs via TO-15	Grab via 6L Summa Canister
Ambient	VOCs via TO-15	Grab via 6L Summa Canister

Concrete Samples

Sample ID	Analytical Methods	Collection Method
CS-1	PCBs via 8082	Grab via Building Sampling
CS-2	PCBs via 8082	Grab via Building Sampling
CS-3	PCBs via 8082	Grab via Building Sampling
CS-4	PCBs via 8082	Grab via Building Sampling
CS-5	PCBs via 8082	Grab via Building Sampling
CS-6	PCBs via 8082	Grab via Building Sampling
CS-7	PCBs via 8082	Grab via Building Sampling
Duplicate	PCBs via 8082	Grab via Building Sampling

12.0 CONTAMINATED MEDIA CHARACTERIZATION

LEE performed a Phase II ESA consisting of a soil, soil gas, groundwater, and concrete evaluation. The goal of this work was to determine whether the past use of the property has impacted these receptors. The future plans for development of the



Site include possible construction of residential units and continued commercial use. Therefore, all laboratory analytical data have been evaluated in the context of state and federal residential thresholds for contaminated media. Photos showing the investigation locations are in Appendix A.

A. Soil Borings

Prior to the initiation of subsurface activities, LEE pre-marked the proposed boring locations and Dig Safe ticket number 20241612131 was obtained. A Site-Specific Health and Safety Plan was prepared and reviewed by field staff prior to work. The locations of the soil borings are noted on the Site Map.

On May 7, 2024, oversaw advancement of 8 soil borings at the locations shown on the attached maps. T&K Drilling of Troy, NH advanced soil borings SB-1 through SB-8 using a Geoprobe with a 2.25" x 3' stainless steel sampler. Continuous soil sampling was conducted during soil boring advancement. Soil samples were screened for VOCs using a calibrated PID.

The geoprobe soil borings were driven to depths ranging from approximately 2.5' bg at SB-5 to 10' bg at SB-3. Refusal was noted at each soil boring, likely due to dense glacial till underlying the Site. Soils on the Site consist primarily of dense glacial till with varying amounts of sand, gravel, silt, and clay. Silts and clays were more apparent with depth. Soils in the vicinity of SB-3, near the closed-in-place UST, consisted largely of sand and appear to be fill soil. No PID readings above 1 ppm were obtained in soils during drilling.

Shallow soil samples, from 0-1.5' bg were obtained from each soil boring. Additionally, a deeper soil sample was obtained from SB-3 (vicinity of closed-in-place fuel oil UST) at a depth of 8-9.5' and from SB-4 (former septic leachfield) at a depth of 4-5.5' bg. A duplicate sample was also obtained. The soil samples were submitted to EAI for analysis of:

- VOCs via EPA Method 8260c
- PAHs via EPA Method 8270d
- RCRA 8 Metals via EPA Method 6020
- Polychlorinated biphenyl compounds (PCBs) via EPA Method 8082

Soil borings SB-1, SB-2, SB-3, and SB-4 were completed as groundwater monitoring wells, and no laboratory analytical samples were obtained from these borings because obvious signs of contamination were not encountered.

B. Groundwater

Groundwater monitoring wells were installed at four soil boring locations. The wells ranged in depth from 6' bg at MW-1 and MW-2, 10' bg at MW-3, and 9' bg at



MW-4. Each well consists of a 1" PVC monitoring well with varying lengths of 1" slotted screen spanning the water table. The wells are flush mounted with steel road box covers. Each well was developed following its installation with a peristaltic pump. The locations of the monitoring wells were measured/surveyed and incorporated into the attached Site maps. Soil boring and groundwater monitoring well construction logs are included in Appendix B.

On May 16, 2024, LEE collected groundwater samples using low-flow sampling techniques. Prior to groundwater sample collection, depth to water was measured with a water level indicator from the top of casing reference points. These data were used to calculate the water level elevations, and to determine the groundwater flow direction and horizontal gradient beneath the Site.

The depth to water ranged from 2.55' bg at MW-2 to 3.80' bg at MW-3. The overall groundwater flow beneath the Site appears to be toward the south at a hydraulic gradient of approximately 0.7%.

Groundwater samples were collected from the monitoring wells using a peristaltic pump and low flow sampling methods except at MW-1 where the well purged dry and recharge groundwater was sampled. Purging took place at approximately 200 milliliters per minute. The groundwater samples were collected directly from the pump discharge tubing into laboratory-supplied pre-acidified sample containers.

Groundwater samples were analyzed for VOCs via EPA Method 8260c and RCRA 8 metals via EPA Method 6020a. A duplicate sample was tested for VOCs and metals and a trip blank was analyzed for VOCs. Samples were submitted to EAI for analysis.

C. Soil Gas

Two sub-slab soil gas samples and an outdoor ambient air sample were collected and tested during the Phase II ESA. The sub-slab soil gas sampling locations and ambient air sampling location are shown on the attached Sub-Slab Soil Vapor Sample Map in Appendix A.

On February 27, 2024, LEE installed two VaporPin® in 5/8" penetrations of the building's floor slab. LEE made the penetrations using an electric rotary hammer drill and 5/8" masonry drill bit. The VaporPins® consist of 1/4" ID x 3" brass fitting with a silicon seal. The VaporPins® were pressed into the 5/8" hole to create a tight seal around the pin. The VaporPins® were water tested following installation to ensure that no leakage was taking place around the pin. An outdoor ambient air sample was collected simultaneously for comparison from the exterior loading dock on the east side of the main building. Pace/ Con-Test provided LEE with 6-liter stainless steel collection canisters, tubing, fittings, and two-hour regulators for the sample collection.



The VaporPins® were screened prior to sampling and after sampling with a PID. PID readings ranged from 0.5 ppm pre-sampling to 0.6 ppm post-sampling at VP-1, and 0.5 ppm pre-sampling and 0.5 ppm post-sampling at VP-2. Following pre-purge measurements, approximately 3 tubing volumes of air were purged from each sampling point at a flow rate of less than 200 ml/minute. Following purging, the soil gas samples and the ambient air sample were collected into the 6-liter stainless steel Summa canisters over a 2-hour period. The canisters were shipped to Pace/Con-Test for analysis of VOCs in soil gas via EPA Method TO-15.

D. Concrete Floor

On February 27, 2024, LEE collected seven concrete samples and one duplicate sample from the concrete floors for laboratory testing. Sample CS-1 was obtained from the basement floor, and samples CS-2 through CS-7 were obtained from the first floor of the main building. The concrete sampling locations are shown on the Concrete Sample Location Map in Appendix A.

The samples were collected using a hammer drill with carbide drill bits. The sample collection tools were decontaminated before use and between each sampling point with Alconox soap and deionized water. The samples were collected in laboratory-supplied glass jars and were submitted to EAI for analysis of PCBs via EPA Method 8082 with Soxhlet extraction.

13.0 SITE-SPECIFIC RISK ASSESSMENT

No site-specific risk assessment was proposed or generated during this Phase II ESA.

14.0 MAPS

A Site location map, Site Map, Sub-Slab Soil Vapor Sample Location Map, Concrete Sample Location Map, Soil Contaminant Concentration Map, Groundwater Contour Map, and a current ANR Natural Resources Atlas map are attached.

15.0 DISCUSSION

A. Soil Sample Results

Soil analytical results were tabularized and compared with the soil standards contained in the 2024 I-Rule. A tabular presentation of the data is included in Appendix D. Following is a discussion of the soil sample results obtained during this Phase II ESA.



VOCs

No VOCs were reported above laboratory detection limits in any of the soil samples collected on the Site.

PAHs

The PAH TEQ concentrations were all below residential VSS for Benzo[a]pyrene of 0.07 mg/kg, except at one location. The PAH TEQ concentration at SB-6s was 0.14 ppm, which exceeds the residential standard of 0.07 ppm. This soil is currently under a paved parking lot.

PCBs

No PCBs were reported above laboratory detection limits in any of soil samples collected.

Metals

Concentrations of metals were reported in all of the soil samples collected. None of the metals concentrations exceeded residential regulatory standards.

Method 2 CRA

Shallow soil samples SB-1s, SB-2s, SB-3s, SB-4s, SB-5s, SB-7s, and SB-8s were subject to the “Method 2 Cumulative Risk Assessment” (CRA) using the calculation template provided by DEC and per Appendix E of the I-Rule. The results of the Method 2 CRA indicated no exceedances of the risk thresholds at those shallow soil sampling locations. The tabulated soil testing results, Method 2 CRA worksheets, and laboratory report are in Appendix D.

B. Groundwater Sample Results

The groundwater testing results were tabulated in comparison to the current VGES and I-Rule residential vapor intrusion standards. A tabular presentation of the data is included in Appendix D. Following is a discussion of the groundwater sample results obtained during this Phase II ESA.

No concentrations of VOCs were reported above laboratory detection limits in the groundwater samples collected except the duplicate sample, which contained chloromethane at 11 parts per billion. There is no VGES for this compound. Concentrations of metals were detected in each of the groundwater samples collected. None of the metals concentrations exceeded the VGES.



C. Soil Gas Results

The sub-slab soil gas results were tabulated with the DEC I-Rule Appendix A2 VIS. A tabular summary of the laboratory results in comparison with applicable regulatory criteria and the analytical laboratory report is in Appendix D.

Concentrations of ethylbenzene were reported in all samples, including the ambient air sample. Concentrations of benzene and carbon tetrachloride were reported in the ambient air sample but none of the sub-slab samples. VP-1 contained concentrations of tetrachloroethene and 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene was reported in both VP-1 and VP-2. None of the reported concentrations exceeded the residential or non-residential VIS. Several other petroleum and non-petroleum VOCs that do not have published standards were reported in the sub-slab soil gas samples.

D. Concrete Results

A tabular summary of the laboratory results in comparison with applicable regulatory criteria and the analytical laboratory report is in Appendix D. The testing and results are summarized as follows:

- No PCBs were reported above laboratory detection limits in samples CS-3, CS-4, CS-5, CS-6, or CS-7.
- Concentrations of PCBs were reported in samples CS-1, CS-2, and the duplicate sample. The reported concentrations were below the TSCA standard of 1 part per million.

16.0 QA/QC SAMPLE RESULTS

LEE's quality assurance officer performed data validation on all field and laboratory data generated during the Phase II ESA, according to LEE's current generic QAPP (RFA 19093) and the approved SSQAPP Addendum dated January 11, 2024. The results are included in Appendix E and they indicate the field and laboratory data should be accepted without qualification.

17.0 INVESTIGATION DERIVED WASTE

Investigation-derived waste associated with this investigation included small amounts of soils generated during soil borings, and small volumes of purge water from the monitoring wells. All of the soils and groundwater generated were returned to the Site. No investigation-derived waste was left on-Site pending testing or disposal.



18.0 CONCLUSIONS AND RECOMMENDATIONS

LEE performed a Phase II ESA consisting of a soil, soil gas, groundwater, and concrete floor evaluation. LEE has developed the following conclusions during the supplemental Phase II ESA.

- Eight soil borings were advanced with a Geoprobe drill rig. The soil borings were driven to depths ranging from approximately 2.5' bg at SB-5 to 10' bg at SB-3. Refusal was noted at each soil boring, likely due to dense glacial till underlying the Site.
- Soils on the Site consist primarily of dense glacial till with varying amounts of sand, gravel, silt, and clay. Silts and clays were more apparent with depth. Soils in the vicinity of SB-3, near the closed-in-place UST, consisted largely of sand and appear to be fill soil. No PID readings above 1 ppm were obtained in soils during drilling.
- Shallow soil samples, from 0-1.5' bg were obtained from each soil boring. Additionally, a deeper soil sample was obtained from SB-3 (vicinity of closed-in-place fuel oil UST) at a depth of 8-9.5' and from SB-4 (former septic leachfield) at a depth of 4-5.5' bg.
- No VOCs or PCBs were reported above laboratory detection limits in any of the soil samples collected on the Site.
- Concentrations of metals were reported in all of the soil samples collected. None of the metals concentrations exceeded residential regulatory standards.
- The PAH TEQ concentrations were all below residential standards except at one location. The PAH TEQ concentration at SB-6s was 0.14 ppm, which exceeds the residential standard of 0.07 ppm. This soil is currently under a paved parking lot.
- Results of Level 2 CRA show no elevated risk to human health.
- Groundwater monitoring wells were installed at four soil boring locations, and four groundwater samples were obtained during this investigation. The wells ranged in depth from 6' bg at MW-1 and MW-2, 10' bg at MW-3, and 9' bg at MW-4.
- The depth to water ranged from 2.55' bg at MW-2 to 3.80' bg at MW-3. The overall groundwater flow beneath the Site appears to be toward the south at a hydraulic gradient of approximately 0.7%.
- No concentrations of VOCs were reported above laboratory detection limits in the groundwater samples collected except the duplicate sample, which contained chloromethane at 11 parts per billion. There is no VGES for this compound. Concentrations of metals were detected in each of the groundwater samples collected. None of the metals concentrations exceeded the VGES.
- Two sub-slab soil vapor samples were obtained from the main building. Concentrations of ethylbenzene were reported in all samples, including the ambient air sample. Concentrations of benzene and carbon tetrachloride were reported in the ambient air sample but none of the sub-slab samples. VP-1 contained concentrations of tetrachloroethene and 1,3,5-trimethylbenzene, and



1,2,4-trimethylbenzene was reported in both VP-1 and VP-2. None of the reported concentrations exceeded the residential or non-residential VIS.

- Seven samples of concrete floor were obtained and tested for PCBs. No PCBs were reported above laboratory detection limits in samples CS-3, CS-4, CS-5, CS-6, or CS-7. Concentrations of PCBs were reported in samples CS-1, CS-2, and the duplicate sample. The reported concentrations were below the TSCA standard of 1 part per million.

LEE recommends additional delineation of soil contamination in the vicinity of SB-6s to further define the extent of the PAH exceedance.

19.0 SIGNATURE AND CERTIFICATION

"I certify under penalty of perjury that I am an environmental professional and that all content contained within this deliverable is to the best of my knowledge true and correct."

A handwritten signature in black ink that reads "Angela Emerson". The signature is written in a cursive, flowing style.

Angela Emerson, PG, Environmental Professional



21.0 MAPS AND APPENDICES

MAPS

Site Location Map
Site Map
ANR Atlas Map
Sub-Slab Soil Vapor Sample Location Map
Concrete Sample Location Map
Soil Contaminant Concentration Map
Groundwater Contour Map

APPENDICES

- A. Standard Operating Procedures
- B. Soil Boring and Monitoring Well Logs
- C. Photographic Documentation
- D. Laboratory Analytical Results
- E. Data Validation Report
- F. Field Notes



Appendix F

Field Notes



21.0 MAPS AND APPENDICES

MAPS

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Site Map
ANR Atlas Map
Sub-Slab Soil Vapor Sample Location Map
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MAPS

Site Location Map

Site Map

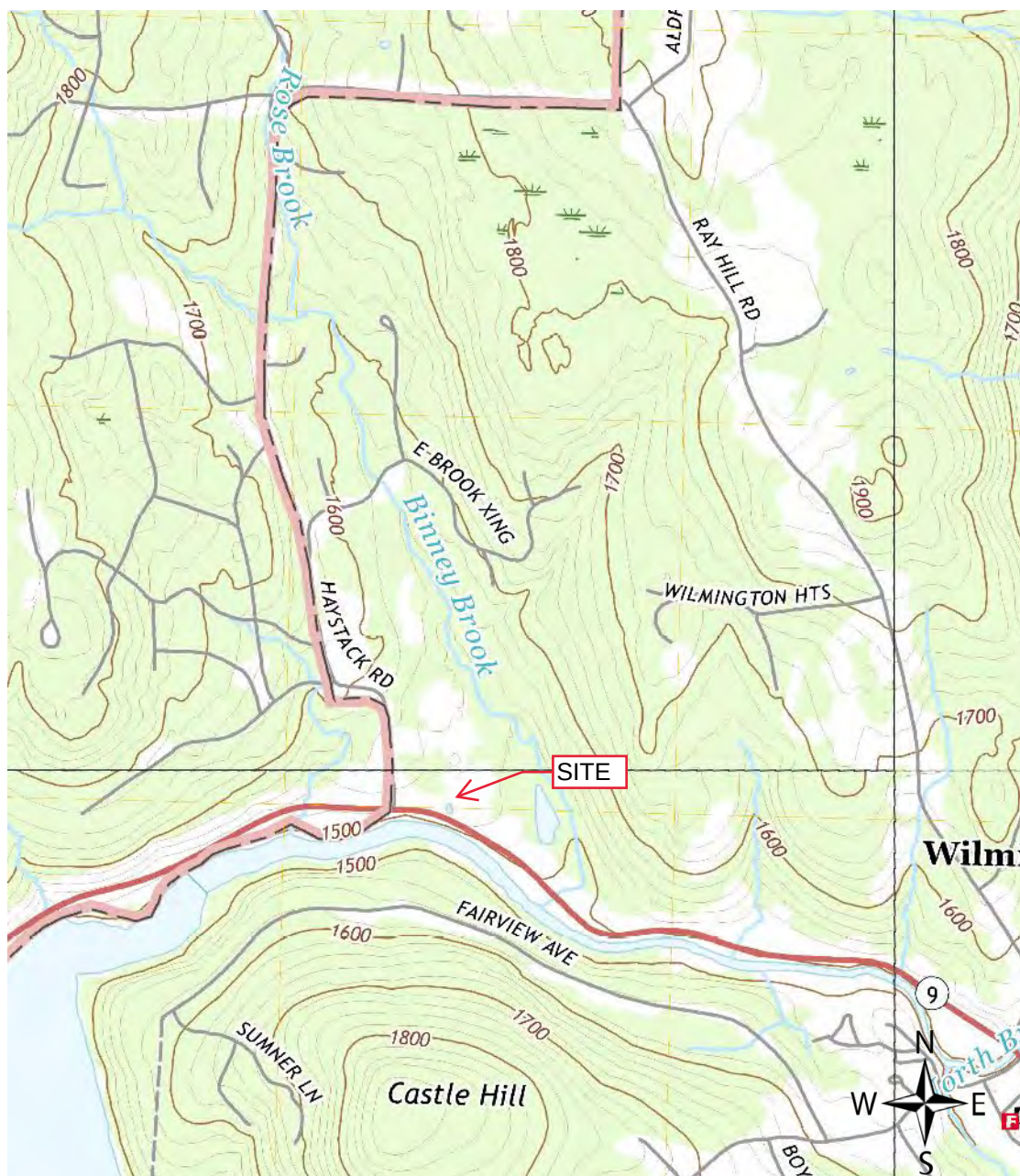
ANR Atlas Map

Sub-Slab Soil Vapor Sample Location Map

Concrete Sample Location Map

Soil Contaminant Concentration Map

Groundwater Contour Map



Site Location Map

211 Route 9 West
Wilmington, Vermont



LEE #: 23-225
Date: November 20, 2023
Source: USGS Store



LEGEND

Landfills

- OPERATING
- CLOSED

- Hazardous Site
- Hazardous Waste Generators
- Brownfields
- Salvage Yard
- Aboveground Storage Tank
- Underground Storage Tank (w/)
- Dry Cleaner
- Parcels (standardized)

Roads

- Interstate
- US Highway; 1
- State Highway
- Town Highway (Class 1)
- Town Highway (Class 2,3)
- Town Highway (Class 4)
- State Forest Trail
- National Forest Trail
- Legal Trail
- Private Road/Driveway
- Proposed Roads

- Town Boundary

1: 4,270

June 28, 2024



NOTES

Map created using ANR's Natural Resources Atlas

217.0 0 108.00 217.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Vermont Agency of Natural Resources

1" = 356 Ft. 1cm = 43 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.



21 North Main Street Unit #1
Waterbury, Vermont
Phone: 802-917-2001
www.leenv.net

Site Map 211 Route 9 West Wilmington, VT LEE Project #23-225

Legend

- Soil Boring
- ⊕ Soil Boring/Monitoring Well
- ⊗ Closed In-Place Fuel Oil UST
- Ⓟ Benchmark

Drawing Date: 6/4/24



21 North Main Street Unit #1
Waterbury, Vermont
Phone: 802-917-2001
www.leenv.net

Sub-Slab Soil Vapor Sample Location Map 211 Route 9 West Wilmington, VT LEE Project #23-225

Legend

● Sub-Slab Soil Vapor
Sample Locations

Sample Date: 2/27/24
Drawing Date: 6/27/24



21 North Main Street Unit #1
Waterbury, Vermont
Phone: 802-917-2001
www.leenv.net

Concrete Sample Location Map 211 Route 9 West Wilmington, VT LEE Project #23-225

Legend

● Concrete Sample Locations

Sample Date: 2/27/24
Drawing Date: 6/27/24



21 North Main Street Unit #1
Waterbury, Vermont
Phone: 802-917-2001
www.leenv.net

Soil Contaminant Map PAH TEQ 211 Route 9 West Wilmington, VT LEE Project #23-225

Legend

- Soil boring/soil sample with B[a]P TEQ concentrations reported in (mg/kg)
Exceedance of residential VSS in bold
- ⊗ Former UST

Sample Date: 5/7/24
Drawing Date: 6/4/24



21 North Main Street Unit #1
Waterbury, Vermont
Phone: 802-917-2001
www.leenv.net

Groundwater Contour Map

211 Route 9 West
Wilmington, VT
LEE Project #23-225

Legend

- Monitoring well-elevations in feet
 - ↑ Arrow denotes approximate groundwater flow
 - B Benchmark 100'
 - ⊠ Closed In-Place UST
- Measure Date: 5/16/24
Drawing Date: 6/4/24



Brownfields Phase II Environmental Site Assessment Report
211 Route 9 West, Wilmington, Vermont

APPENDIX A

Standard Operating Procedures



Field Standard Operating Procedures used during this work:

- LEE SOP A: Soil Sampling
- LEE SOP B: Soil Borings, Groundwater Monitoring Well Installation and Low flow groundwater sampling
- LEE SOP E: Sample Handling
- LEE SOP F: PID Operation
- LEE SOP G: pH Conductivity and Temperature Meter Operation
- LEE SOP H: Turbidity Meter Operation
- LEE SOP I: Electronic Water Level Measurement Operation
- LEE SOP O: Soil Sampling via Incremental Sampling Method



APPENDIX B

Monitoring Well and Soil Boring Logs

**Phase II Environmental Site Assessment
Soil Boring Summary Table
211 Route 9 West
Wilmington, Vermont**



Soil Boring	Depth	Soil Description	Laboratory Sample and Depth Obtained (ft. bg)	PID Reading (PPM)
SB-1	0-3	Moist to wet, medium brown, well-graded sand with gravel, glacial till	SB-1S: 0-1.5	0.1
	3-6	Wet, medium brown, silt with gravel, glacial till: refusal at 6'		0.1
SB-2	0-3	Moist to wet, medium brown, well-graded sand with gravel, glacial till	SB-2S: 0-1.5	0.1
	3-6	Wet, medium brown, silt with gravel, glacial till: refusal at 6'		0.1
SB-3	0-3	Dry to moist, medium brown, well-graded sand with gravel	SB-3S: 0-1.5	0.2
	3-6	Moist, medium brown, poorly-graded sand		0.1
	6-9	Moist to wet, medium brown, poorly-graded sand	SB-3D: 8-9.5	0.2
	9-10	No recovery: refusal at 10'		0.1
SB-4	0-3	Dry to moist, medium brown, well-graded sand with gravel	SB-4S: 0-1.5	0.1
	3-6	Moist to wet, medium brown, well-graded sand with silt and gravel, glacial till	SB-4D: 4.5.5	0.3
	6-9	Wet, medium brown, clayey sand with gravel, glacial till: refusal at 9'		0.3
SB-5	0-2.5	Dry to moist, medium brown, silty sand with gravel, dense glacial till: refusal at 2.5'	SB-5S: 0-1.5	0.6
SB-6	0-3	Dry to wet, medium brown, well-graded sand with gravel, dense glacial till: refusal at 3'	SB-6S: 0-1.5	0.1
SB-7	0-3	Dry to wet, medium brown, well-graded sand with gravel, dense glacial till: refusal at 3'	SB-7S: 0-1.5	0.1
SB-8	0-3	Dry to moist, medium brown, well-graded sand with silt and gravel	SB-8S: 0-1.5	0.0
	3-6	Moist to wet, medium brown, clayey silt, glacial till		0.0
	6-9	Wet, medium brown, clay with gravel, glacial till		0.1

Notes:

Borings advanced May 20, 2024

211 Route 9 West, Wilmington, Vermont

May 7, 2024

LEE Project # 23-225

DRILLER

T&K Drilling

ON-SITE REP.

Angela Emerson

BORING NO. / WELL NO.

SB-1 / MW-1

TOP OF CASING ELEVATION 102.38

WATER LEVEL DATA (IF APPLICABLE)

REFUSAL: DEPTH 6 FT.

COMPLETION: DEPTH 2.65 FT.

TOP OF ROCK:	DEPTH	
		Not Encountered

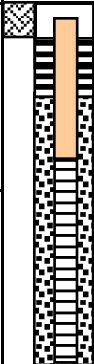
ELEV. 99.73 FT.

BOTTOM OF HOLE DEPTH: DEPTH 6.0 FT.

MONITOR DATE: DEPTH 3.45 FT.

BORING ADVANCED BY: GEOPROBE

5/16/24	ELEV.	98.93	FT.
---------	-------	-------	-----

STRATUM DEPTH		STRATUM DESCRIPTION	PENETRATION/RECOVERY (")	FIELD RESULTS		WELL DESIGN	WELL CONSTRUCTION DETAILS
FT.	ELEV.			Blow Counts	PID (ppm)		SOIL SAMPLING DETAILS
0.0	102.38	Moist to wet, medium brown, well-graded sand with gravel (SW) , glacial till	36/36	N/A	0.1		STEEL ROADBOX FLUSH MOUNTED IN GRAVEL DRIVE
3.0	99.4						BENTONITE SEAL 0.5-1.5' BG
		1" PVC RISER 0.5-2' BG					
		DRILLERS SAND 1.5-6' BG					
		10' LENGTH OF 0.010 SLOT PVC PLASTIC					
		WELL SCREEN 2-6' BG					
6.0	96.4	Wet, medium brown, silt with gravel, (ML) glacial till: refusal at 6'	36/36	N/A	0.1		



SOIL BORING LOG/GROUNDWATER MONITORING WELL COMPLETION DIAGRAM

SHEET 1 OF 1

211 Route 9 West, Wilmington, Vermont

May 7, 2024

LEE Project # 23-225

DRILLER

T&K Drilling

ON-SITE REP.

Angela Emerson

BORING NO. / WELL NO.

SB-3 / MW-3

TOP OF CASING ELEVATION 100.25

REFUSAL: DEPTH 10 FT.

TOP OF ROCK: DEPTH Not Encountered

BOTTOM OF HOLE DEPTH: DEPTH 10.0 FT.

BORING ADVANCED BY: GEOPROBE

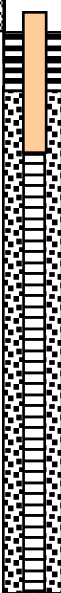
WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH 3.65 FT.

ELEV. 96.60 FT.

MONITOR DATE: DEPTH 3.80 FT.

5/16/24 ELEV. 96.45 FT.

STRATUM DEPTH		STRATUM DESCRIPTION	PENETRATION/RECOVERY (")	FIELD RESULTS		WELL DESIGN	WELL CONSTRUCTION DETAILS
FT.	ELEV.			Blow Counts	PID (ppm)		SOIL SAMPLING DETAILS
0.0	100.25	Dry to moist, medium brown, well-graded sand with gravel (SW)	36/32	N/A	0.2		STEEL ROADBOX FLUSH MOUNTED IN PAVED DRIVE
3.0	97.3						BENTONITE SEAL 0.5-1.5' BG
		Moist, medium brown, poorly-graded sand (SP)	36/36	N/A	0.1		1" PVC RISER 0.5-2' BG
6.0	94.3						DRILLERS SAND 1.5-10' BG
		Moist to wet, medium brown, poorly-graded sand (SP): refusal at 10'	36/36	N/A	0.2		10' LENGTH OF 0.010 SLOT PVC PLASTIC WELL SCREEN 2-10' BG
9.0	91.3						



SOIL BORING LOG/GROUNDWATER MONITORING WELL COMPLETION DIAGRAM

SHEET 1 OF 1

211 Route 9 West, Wilmington, Vermont

May 7, 2024

LEE Project # 23-225

DRILLER

T&K Drilling

ON-SITE REP.

Angela Emerson

BORING NO. / WELL NO.

SB-4 / MW-4

TOP OF CASING ELEVATION 99.29

REFUSAL: DEPTH 9 FT.

TOP OF ROCK: DEPTH Not Encountered

BOTTOM OF HOLE DEPTH: DEPTH 9 FT. FT.

BORING ADVANCED BY: GEOPROBE

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH 3.3 FT.

ELEV. 95.99 FT.

MONITOR DATE: DEPTH 3.58 FT.

5/16/24 ELEV. 95.71 FT.

STRATUM DEPTH		STRATUM DESCRIPTION	PENETRATION/RECOVERY (")	FIELD RESULTS		WELL DESIGN	WELL CONSTRUCTION DETAILS
FT.	ELEV.			Blow Counts	PID (ppm)		SOIL SAMPLING DETAILS
0.0	99.29	Dry to moist, medium brown, well-graded sand with gravel (SW)	36/32	N/A	0.1		STEEL ROADBOX FLUSH MOUNTED IN PAVED DRIVE
3.0	96.3						BENTONITE SEAL 0.5-1.5' BG
		Moist to wet, medium brown, well-graded sand with silt and gravel (SW-SM), glacial till	36/36	N/A	0.1		1" PVC RISER 0.5-2' BG
6.0	93.3						DRILLERS SAND 1.5-9' BG
		Wet, medium brown, clayey sand with gravel (SC), glacial till: refusal at 9'	36/36	N/A	0.1		10' LENGTH OF 0.010 SLOT PVC PLASTIC WELL SCREEN 2-9' BG
9.0	90.3						



APPENDIX C

Photographic Documentation

Photographic Documentation
Phase II Environmental Site Assessment
211 Route 9 West
Wilmington, VT
LEE #23-225



Photograph ID: 001

Date: May 7, 2024

Location:
Northern portion of the Site

Direction:
Looking north

Comments:

Drilling SB-1/GW-1



Photograph ID: 002

Date: May 7, 2024

Location:
Eastern portion of Site

Direction:
Looking east

Comments:

Drilling SB-2/GW-2



Photographic Documentation
Phase II Environmental Site Assessment
211 Route 9 West
Wilmington, VT
LEE #23-225



Photograph ID: 003

Date: May 7, 2024

Location:
Central portion of Site

Direction:
Looking west

Comments:

Drilling SB-3/MW-3. Closed-in
place UST is located to the right
of the soil boring



Photograph ID: 004

Date: May 7, 2024

Location:
Southern portion of Site

Direction:
Looking northwest

Comments:

Drilling SB-4/MW-4 in the former
septic leachfield



Photographic Documentation
Phase II Environmental Site Assessment
211 Route 9 West
Wilmington, VT
LEE #23-225



Photograph ID: 005

Date: May 7, 2024

Location:
Western portion of Site

Direction:
Looking south

Comments:

Drilling SB-5 in western portion of
the Site



Photograph ID: 006

Date: May 7, 2024

Location:
Eastern portion of the Site

Direction:
Looking east

Comments:

Drilling SB-7



Photographic Documentation
Phase II Environmental Site Assessment
211 Route 9 West
Wilmington, VT
LEE #23-225



Photograph ID: 007

Date: May 7, 2024

Location:
Southern portion of Site

Direction:
Looking west

Comments:

Drilling SB-8 on southern portion
of the Site



Photograph ID: 008

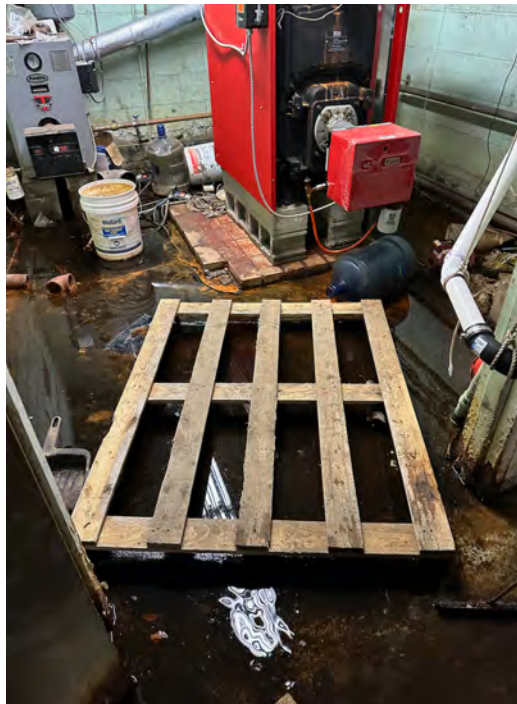
Date: February 27, 2024

Location:
Basement

Direction:
N/A

Comments:

Water on basement floor during
Phase II ESA





APPENDIX D

Laboratory Analytical Results

Brownfields Phase II Environmental Site Assessment
211 Route 9 West
Wilmington, Vermont
Soil Data Summary
Page 1 of 4



Sample Identification	SB-1S	SB-2S	SB-3S	SB-3D	SB-4S	SB-4D	SB-5S	SB-6S	SB-7S	SB-8S	Duplicate	EPA Residential RSL (mg/kg)	EPA Industrial RSL (mg/kg)	VSS Residential (mg/kg)	VSS Non- Residential (mg/kg)
Sample Depth (ft. kg)	0-1.5	0-1.5	0-1.5	8-9.5	0-1.5	4-5.5	0-1.5	0-1.5	0-1.5	0-1.5	4-5.5				
PID Reading (ppm)	0.1	0.1	0.2	0.2	0.1	0.3	0.6	0.1	0.1	0.0	0.3				
Sample Date	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24				
VOCs, EPA Method 8260C (mg/kg)															
Dichlorodifluoromethane	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	87	370	-	-
Chloromethane	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	110	460	-	-
Vinyl Chloride	ND<0.02	ND<0.02	ND<0.05	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	-	-	0.10	0.59
Bromomethane	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	6.8	30	-	-
Chloroethane (ethyl chloride)	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	14,000	57,000	-	-
Trichlorofluoromethane	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	23,000	350,000	-	-
Diethyl Ether	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	-	-
Acetone	ND<2	ND<2	ND<5	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	-	-	63,079	816,169
1,1-Dichloroethene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	230	1,000	-	-
Methylene chloride	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	57	1,000	-	-
Carbon disulfide	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	-	-	608	662
MTBE	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	-	-	27	165
trans-1,2-Dichloroethene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	108	296
1,1-Dichloroethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	2.1	13
1,2-Dichloropropane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	77	352
cis-1,2-Dichloroethene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	-	-
2-Butanone (MEK)	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-	16,952	26,991
Bromochloromethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	193	597
Tetrahydrofuran (THF)	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-	-	-
Chloroform	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.32	1.4	-	-
1,1,1-Trichloroethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	8,100	36,000	-	-
Carbon tetrachloride	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	0.37	2.2
1,1-Dichloropropene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	-	-
Benzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	0.70	4.2
1,2-Dichlorobenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	0.29	1.7
Trichloroethene (TCE)	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	1.9	6.5
1,2-Dichloropropane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	1.5	9.1
Dibromomethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	24	99	-	-
Bromochloromethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.29	1.3	-	-
4-Methyl-2-pentanone (MIBK)	ND<0.05	ND<0.05	ND<1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	33,000	140,000	-	-
cis-1,3-Dichloropropene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1.8	8.2	-	-
Toluene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	705	798
trans-1,3-Dichloropropene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1.8	8.2	-	-
1,1,2-Trichloroethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1.1	5	-	-
2-Hexanone	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	200	1,300	-	-
Tetrachloroethene (PCE)	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	2.4	14
1,3-Dichloropropane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1,600	23,000	-	-
Dibromochloromethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	8.3	39	-	-
1,2-Dibromoethane (EDB)	ND<0.02	ND<0.02	ND<0.05	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	-	-	0.02	0.14
Chlorobenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	267	676
1,1,1,2-Tetrachloroethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	2	8.8	-	-
Ethylbenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	3.7	22
m,p-Xylene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	252	257
o-Xylene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	-	-
Styrene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	6,000	35,000	-	-
Bromoforn	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	19	86	-	-
Isopropylbenzene (cumene)	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	256	264
Bromobenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	290	1,800	-	-
1,1,2,2-Tetrachloroethane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.6	2.7	-	-
1,2,3-Trichloropropane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	0.00311	0.07
m-Propylbenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	253	261
2-Chlorotoluene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1,600	23,000	-	-
4-Chlorotoluene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1,600	23,000	-	-
1,3,5-trimethylbenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	144*	177*
tert-Butylbenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	7,009	90,685
1,2,4-trimethylbenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	144*	177*
sec-Butylbenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	7,009	90,685
1,3-Dichlorobenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	-	-
p-Isopropyltoluene (p-cymene)	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	-	-
1,4-Dichlorobenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	2.6	11	-	-
1,2-Dichlorobenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1,800	9,300	-	-
n-Butylbenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	-	-	3,504	45,343
1,2-Dibromo-3-chloropropane	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.0053	0.064	-	-
1,2,4-Trichlorobenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	24	110	-	-
Hexachlorobutadiene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	1.2	5.3	-	-
Naphthalene	ND<0.1	ND<0.1	ND<0.3	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	-	-	1.2	7.2
1,2,3-Trichlorobenzene	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.06	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	63	930	-	-

Brownfields Phase II Environmental Site Assessment
211 Route 9 West
Wilmington, Vermont
Soil Data Summary
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Sample Identification	SB-1S 0-1.5	SB-2S 0-1.5	SB-3S 0-1.5	SB-3D 8-9.5	SB-4S 0-1.5	SB-4D 4-5.5	SB-5S 0-1.5	SB-6S 0-1.5	SB-7S 0-1.5	SB-8S 0-1.5	Duplicate 4-5.5	EPA Residential RSL (mg/kg)	EPA Industrial RSL (mg/kg)	VSS Residential (mg/kg)	VSS Non- Residential (mg/kg)
Sample Depth (ft. kg)	0-1.5	0-1.5	0-1.5	8-9.5	0-1.5	4-5.5	0-1.5	0-1.5	0-1.5	0-1.5	4-5.5				
PID Reading (ppm)	0.1	0.1	0.2	0.2	0.1	0.3	0.6	0.1	0.1	0.0	0.3				
Sample Date	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24				
PAH EPA Method 8270D (mg/kg)															
Naphthalene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.0082	ND<0.007	ND<0.008	ND<0.008	-	-	1.2	7.2
2-Methylnaphthalene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	0.0083	ND<0.007	ND<0.008	0.013	ND<0.007	ND<0.008	ND<0.008	240	3,000	-	-
1-Methylnaphthalene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	ND<0.007	ND<0.007	ND<0.008	ND<0.008	18	73	-	-
Acenaphthylene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.022	ND<0.007	ND<0.008	ND<0.008	-	-	-	-
Acenaphthene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.023	ND<0.007	ND<0.008	ND<0.008	3,600	45,000	-	-
Fluorene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.040	ND<0.007	ND<0.008	ND<0.008	-	-	2,301	26,371
Phenanthrene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.065	0.0064	0.024	ND<0.008	-	-	-	-
Anthracene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.059	ND<0.007	ND<0.008	ND<0.008	18,000	230,000	-	-
Fluoranthene	ND<0.007	0.026	ND<0.008	ND<0.008	0.018	ND<0.007	0.010	0.084	0.0089	0.064	ND<0.008	-	-	2,301	26,371
Pyrene	ND<0.007	0.021	ND<0.008	ND<0.008	0.016	ND<0.007	0.0086	0.078	0.0080	0.056	ND<0.008	1,800	23,000	-	-
Benzo(a)anthracene	ND<0.007	0.012	ND<0.008	ND<0.008	0.0095	ND<0.007	ND<0.008	0.070	0.0082	0.026	ND<0.008	1.1	21	-	-
Chrysene	ND<0.007	0.014	ND<0.008	ND<0.008	0.0091	ND<0.007	ND<0.008	0.073	ND<0.007	0.034	ND<0.008	110	2,100	-	-
Benzo(b)fluoranthene	ND<0.007	0.020	ND<0.008	ND<0.008	0.012	ND<0.007	ND<0.008	0.071	ND<0.007	0.044	ND<0.008	1.1	21	-	-
Benzo(k)fluoranthene	ND<0.007	0.0081	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.066	ND<0.007	0.016	ND<0.008	11	210	-	-
Benzo(a)pyrene	ND<0.007	0.013	ND<0.008	ND<0.008	0.0087	ND<0.007	ND<0.008	0.066	ND<0.007	0.032	ND<0.008	-	-	0.07	1.54
Indeno(1,2,3-cd)pyrene	ND<0.007	0.012	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.054	ND<0.007	0.024	ND<0.008	1.1	21	-	-
Dibenz(a,h)anthracene	ND<0.007	ND<0.008	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.055	ND<0.007	ND<0.008	ND<0.008	0.11	2.1	-	-
Benzo(g,h,i)perylene	ND<0.007	0.013	ND<0.008	ND<0.008	ND<0.008	ND<0.007	ND<0.008	0.056	ND<0.007	0.027	ND<0.008	-	-	-	-
Total Reported PAHs	ND	0.139	ND	ND	0.082	ND	0.019	0.903	0.034	0.347	ND	-	-	-	-
PAH TEQ as Benzo(a)pyrene	0.01	0.06	0.01	0.01	0.02	0.01	0.01	0.14	0.01	0.05	0.01	-	-	0.07	1.54
TOTAL METALS, EPA Method 6020 (mg/kg, dry)															
Total Arsenic	2.0	2.4	1.9	0.94	1.8	1.8	3.0	3.1	3.4	1.9	2.3	-	-	16	16
Total Barium	15	23	22	20	17	19	48	14	29	20	25	-	-	11,247	127,382
Total Cadmium	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-	6.9	87
Total Chromium	6.0	6.5	7.7	3.2	7.1	5.6	10	5.8	6.5	8.1	7.1	-	-	40,223	360,223
Total Lead	2.4	3.9	4.8	1.5	5.5	3.7	9.8	3.7	3.7	9.1	4.5	-	-	41	41
Total Mercury	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	-	-	3.1	3.1
Total Selenium	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	390	5,800	-	-
Total Silver	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-	237	2,483
PCBs, EPA Method 8082 (mg/kg)															
Aroclor - 1016	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	4.1	27	-	-
Aroclor - 1221	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.2	0.83	-	-
Aroclor - 1232	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.17	0.72	-	-
Aroclor - 1242	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.23	0.95	-	-
Aroclor - 1248	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.23	0.94	-	-
Aroclor - 1254	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.24	0.97	-	-
Aroclor - 1260	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	0.24	0.99	-	-
Aroclor - 1262	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	-	-	-	-
Aroclor - 1268	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	ND<0.02	-	-	-	-
Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	0.11	0.68

NOTES:

Vermont Soil Standards (VSS) and Statewide Background Concentrations from February 2024 DEC I-Rule

EPA Regional Screening Levels (RSLs) from RSL Summary Table. RSLs not included when a VSS exists.

Reported results or reporting limits equal to or in excess of residential soil thresholds are shaded.

Dashed Cell=no published value (VSS) or published value not applicable (RSL)

Toxic Equivalency Calculations
211 Route 9 West, Wilmington, VT
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SB-1S

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	ND<0.007	0.1	0.00035
Chrysene	ND<0.007	0.001	0.0000035
Benzo(b)fluoranthene	ND<0.007	0.1	0.00035
Benzo(k)fluoranthene	ND<0.007	0.01	0.000035
Benzo(a)pyrene	ND<0.007	1	0.0035
Indeno(1,2,3-cd)pyrene	ND<0.007	0.1	0.00035
Dibenz(a,h)anthracene	ND<0.007	1	0.0035
Total Benzo(a)pyrene Equivalent =			0.01

SB-2S

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	0.012	0.1	0.0012
Chrysene	0.014	0.001	0.000014
Benzo(b)fluoranthene	0.020	0.1	0.002
Benzo(k)fluoranthene	0.0081	0.01	0.000081
Benzo(a)pyrene	0.013	1	0.013
Indeno(1,2,3-cd)pyrene	0.012	0.1	0.0012
Dibenz(a,h)anthracene	ND<0.008	1	0.04
Total Benzo(a)pyrene Equivalent =			0.06

SB-3S

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	ND<0.008	0.1	0.0004
Chrysene	ND<0.008	0.001	0.000004
Benzo(b)fluoranthene	ND<0.008	0.1	0.0004
Benzo(k)fluoranthene	ND<0.008	0.01	0.000004
Benzo(a)pyrene	ND<0.008	1	0.004
Indeno(1,2,3-cd)pyrene	ND<0.008	0.1	0.0004
Dibenz(a,h)anthracene	ND<0.008	1	0.004
Total Benzo(a)pyrene Equivalent =			0.01

SB-3D

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	ND<0.008	0.1	0.0004
Chrysene	ND<0.008	0.001	0.000004
Benzo(b)fluoranthene	ND<0.008	0.1	0.0004
Benzo(k)fluoranthene	ND<0.008	0.01	0.000004
Benzo(a)pyrene	ND<0.008	1	0.004
Indeno(1,2,3-cd)pyrene	ND<0.008	0.1	0.0004
Dibenz(a,h)anthracene	ND<0.008	1	0.004
Total Benzo(a)pyrene Equivalent =			0.01

SB-4S

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	0.0095	0.1	0.00095
Chrysene	0.0091	0.001	0.0000091
Benzo(b)fluoranthene	0.012	0.1	0.0012
Benzo(k)fluoranthene	ND<0.008	0.01	0.000004
Benzo(a)pyrene	0.0087	1	0.0087
Indeno(1,2,3-cd)pyrene	ND<0.008	0.1	0.0004
Dibenz(a,h)anthracene	ND<0.008	1	0.004
Total Benzo(a)pyrene Equivalent =			0.02

SB-4D

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	ND<0.007	0.1	0.00035
Chrysene	ND<0.007	0.001	0.0000035
Benzo(b)fluoranthene	ND<0.007	0.1	0.00035
Benzo(k)fluoranthene	ND<0.007	0.01	0.000035
Benzo(a)pyrene	ND<0.007	1	0.0035
Indeno(1,2,3-cd)pyrene	ND<0.007	0.1	0.00035
Dibenz(a,h)anthracene	ND<0.007	1	0.0035
Total Benzo(a)pyrene Equivalent =			0.01

Toxic Equivalency Calculations
211 Route 9 West, Wilmington, VT
Page 4 of 4



SB-5S

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	ND<0.008	0.1	0.0004
Chrysene	ND<0.008	0.001	0.000004
Benzo(b)fluoranthene	ND<0.008	0.1	0.0004
Benzo(k)fluoranthene	ND<0.008	0.01	0.00004
Benzo(a)pyrene	ND<0.008	1	0.004
Indeno(1,2,3-cd)pyrene	ND<0.008	0.1	0.0004
Dibenz(a,h)anthracene	ND<0.008	1	0.004
Total Benzo(a)pyrene Equivalent =			0.01

SB-6S

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	0.070	0.1	0.007
Chrysene	0.073	0.001	0.000073
Benzo(b)fluoranthene	0.071	0.1	0.0071
Benzo(k)fluoranthene	0.066	0.01	0.00066
Benzo(a)pyrene	0.066	1	0.066
Indeno(1,2,3-cd)pyrene	0.054	0.1	0.0054
Dibenz(a,h)anthracene	0.055	1	0.055
Total Benzo(a)pyrene Equivalent =			0.14

SB-7S

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	0.0082	0.1	0.00082
Chrysene	ND<0.007	0.001	0.0000035
Benzo(b)fluoranthene	ND<0.007	0.1	0.00035
Benzo(k)fluoranthene	ND<0.007	0.01	0.000035
Benzo(a)pyrene	ND<0.007	1	0.0035
Indeno(1,2,3-cd)pyrene	ND<0.007	0.1	0.00035
Dibenz(a,h)anthracene	ND<0.007	1	0.0035
Total Benzo(a)pyrene Equivalent =			0.01

SB-8S

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	0.026	0.1	0.0026
Chrysene	0.034	0.001	0.000034
Benzo(b)fluoranthene	0.044	0.1	0.0044
Benzo(k)fluoranthene	0.016	0.01	0.00016
Benzo(a)pyrene	0.032	1	0.032
Indeno(1,2,3-cd)pyrene	0.024	0.1	0.0024
Dibenz(a,h)anthracene	ND<0.008	1	0.004
Total Benzo(a)pyrene Equivalent =			0.05

Duplicate

Contaminant	Concentration (mg/kg)	Toxicity Equivalency Factor	Toxicity Equivalents to Benzo(a)pyrene
Benzo(a)anthracene	ND<0.008	0.1	0.0004
Chrysene	ND<0.008	0.001	0.000004
Benzo(b)fluoranthene	ND<0.008	0.1	0.0004
Benzo(k)fluoranthene	ND<0.008	0.01	0.00004
Benzo(a)pyrene	ND<0.008	1	0.004
Indeno(1,2,3-cd)pyrene	ND<0.008	0.1	0.0004
Dibenz(a,h)anthracene	ND<0.008	1	0.004
Total Benzo(a)pyrene Equivalent =			0.01

sample information

Site Number:	N/A
Site Name:	211 Route 9 West
Sample Number:	SB-15
Sample Depth:	0-1.5'
Sample Date:	5/7/24

1. Select chemicals from dropdown list

2. Input reported concentrations in mg/kg

3. View autocalculated ILCR and HQ associated with each individual chemical

Analyte	CASRN	^a RB-RSV _a (mg/kg)	^b RB-RSV _n (mg/kg)	Sample Concentration (mg/kg)	Calculated Sample ILCR (unitless)	Calculated Sample HQ (unitless)
2,3,7,8-TCDD TEQ ^c	1746-01-6*	2.25E-06	4.91E-05		Analyte conc. < RL	Analyte conc. < RL
BaP-TE ^d	—	7.28E-02	NA	1.00E-02	1.37E-07	No noncancer RB-RSV
Benzo(a)pyrene ^e	50-32-8	NA	1.72E+01		Included in BaP-TE	Analyte conc. < RL
Total PCBs ^f	1336-36-3	1.14E-01	1.13E+00		Analyte conc. < RL	Analyte conc. < RL
Acetochlor	34256-82-1	NA	1.22E+03		No cancer RB-RSV	Analyte conc. < RL
Acetone	67-64-1	NA	4.06E+04		No cancer RB-RSV	Analyte conc. < RL
Alachlor	15972-60-8	NA	6.08E+01		No cancer RB-RSV	Analyte conc. < RL
Aldrin	309-00-2	2.02E-02	2.10E+00		Analyte conc. < RL	Analyte conc. < RL
Aluminum	7429-90-5	NA	7.25E+04		No cancer RB-RSV	Analyte conc. < RL
Antimony	7440-36-0	NA	2.60E+01		No cancer RB-RSV	Analyte conc. < RL
Barium	7440-39-3	NA	1.12E+04	1.50E+01	No cancer RB-RSV	1.33E-03
Benomyl	17804-35-2	1.16E+02	7.90E+02		Analyte conc. < RL	Analyte conc. < RL
Benzene	71-43-2	6.98E-01	1.11E+02		Analyte conc. < RL	Analyte conc. < RL
Beryllium	7440-41-7	5.67E+02	3.45E+01		Analyte conc. < RL	Analyte conc. < RL
Bis(2-chloro-1-methyl ethyl) ether	108-60-1	NA	2.80E+03		No cancer RB-RSV	Analyte conc. < RL
Boron	7440-42-8	NA	1.47E+04		No cancer RB-RSV	Analyte conc. < RL
Bromate	15541-45-4	5.36E-01	2.93E+02		Analyte conc. < RL	Analyte conc. < RL
Bromochloromethane	74-97-5	NA	1.93E+02		No cancer RB-RSV	Analyte conc. < RL
Bromoxynil	1689-84-5	2.69E+00	9.12E+02		Analyte conc. < RL	Analyte conc. < RL
Butylbenzene, n-	104-51-8	NA	3.50E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, sec-	135-98-8	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, tert-	98-06-6	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Cadmium (food)	7440-43-9	7.56E+02	6.86E+00		Analyte conc. < RL	Analyte conc. < RL
Carbaryl	63-25-2	3.17E+02	6.08E+03		Analyte conc. < RL	Analyte conc. < RL
Carbon Disulfide	75-15-0	NA	6.08E+02		No cancer RB-RSV	Analyte conc. < RL
Carbon tetrachloride	56-23-5	3.72E-01	1.30E+02		Analyte conc. < RL	Analyte conc. < RL
Chlorobenzene	108-90-7	NA	4.14E+02		No cancer RB-RSV	Analyte conc. < RL
Chromium (III) (insoluble salts)	16065-83-1	NA	4.02E+04	6.00E+00	No cancer RB-RSV	1.49E-04
Chromium (VI)	18540-29-9	9.06E-02	1.16E+02		Analyte conc. < RL	Analyte conc. < RL
Cobalt	7440-48-4	1.51E+02	2.19E+01		Analyte conc. < RL	Analyte conc. < RL
Copper	7440-50-8	NA	1.04E+04		No cancer RB-RSV	Analyte conc. < RL
Di (2-ethylhexyl) phthalate	117-81-7	1.98E+01	1.22E+03		Analyte conc. < RL	Analyte conc. < RL
Dibromochloropropane	96-12-8	6.00E-03	6.63E+00		Analyte conc. < RL	Analyte conc. < RL
Dibromomethane, 1,2-	106-93-4	2.27E-02	1.15E+02		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,1-	75-34-3	2.10E+00	1.40E+04		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,2-	107-06-2	2.85E-01	4.95E+01		Analyte conc. < RL	Analyte conc. < RL
Dichloroethylene, cis 1,2-	156-59-2	NA	1.40E+02		No cancer RB-RSV	Analyte conc. < RL
Dichloroethylene, trans 1,2-	156-60-5	NA	1.40E+03		No cancer RB-RSV	Analyte conc. < RL
Dichloropropane, 1,2-	78-87-5	1.51E+00	2.63E+01		Analyte conc. < RL	Analyte conc. < RL
Dioxane, 1,4-	123-91-1	2.78E+00	1.05E+03		Analyte conc. < RL	Analyte conc. < RL
Ethylbenzene	100-41-4	3.68E+00	4.45E+02		Analyte conc. < RL	Analyte conc. < RL
Fluoranthene	206-44-0	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Fluorene	86-73-7	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Hexachlorobenzene	118-74-1	1.31E-01	5.61E+01		Analyte conc. < RL	Analyte conc. < RL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	4.60E+00	2.90E+02		Analyte conc. < RL	Analyte conc. < RL
Hydrogen cyanide	74-90-8	NA	4.91E+01		No cancer RB-RSV	Analyte conc. < RL
Iron	7439-89-6	NA	5.13E+04		No cancer RB-RSV	Analyte conc. < RL
Isopropylbenzene (cumene)	98-82-8	NA	2.56E+02		No cancer RB-RSV	Analyte conc. < RL
Manganese (non-diet)	7439-96-5	NA	1.12E+03		No cancer RB-RSV	Analyte conc. < RL
Mercury (elemental)	7439-97-6	NA	3.13E+00		No cancer RB-RSV	Analyte conc. < RL
Methyl ethyl ketone	78-93-3	NA	1.70E+04		No cancer RB-RSV	Analyte conc. < RL
Methyl tert-butyl ether (MTBE)	1634-04-4	NA	6.49E+02		No cancer RB-RSV	Analyte conc. < RL
Molybdenum	7439-98-7	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Naphthalene	91-20-3	2.72E+00	2.24E+02		Analyte conc. < RL	Analyte conc. < RL
Nickel	7440-02-0	5.23E+03	9.40E+02		Analyte conc. < RL	Analyte conc. < RL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	NA	3.70E+03		No cancer RB-RSV	Analyte conc. < RL
Pentachlorophenol	87-86-5	4.84E-01	2.37E+02		Analyte conc. < RL	Analyte conc. < RL
Pentaerythritol tetranitrate (PETN)	78-11-5	NA	1.22E+02		No cancer RB-RSV	Analyte conc. < RL
Perchlorate	14797-73-0	NA	5.13E+01		No cancer RB-RSV	Analyte conc. < RL
Perfluoroheptanoic acid (PFHpA)	375-85-9	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorononanoic acid (PFNA)	375-95-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctanoic acid (PFOA)	335-67-1	3.96E+00	1.22E+00		Analyte conc. < RL	Analyte conc. < RL
Propoxur (Baygon)	114-26-1	7.88E+01	2.43E+02		Analyte conc. < RL	Analyte conc. < RL
Propyl benzene, n-	103-65-1	NA	2.53E+02		No cancer RB-RSV	Analyte conc. < RL
Selenium	7782-49-2	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Silver	7440-22-4	NA	2.37E+02		No cancer RB-RSV	Analyte conc. < RL
Tetrachloroethane, 1,1,1,2-	630-20-6	1.32E+00	2.10E+03		Analyte conc. < RL	Analyte conc. < RL
Tetrachloroethylene	127-18-4	2.38E+00	1.13E+02		Analyte conc. < RL	Analyte conc. < RL
Thallium (soluble Thallium)	7440-28-0**	NA	7.33E-01		No cancer RB-RSV	Analyte conc. < RL
Toluene	108-88-3	NA	7.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trichloroethylene	79-01-6	6.81E-01	6.21E+00		Analyte conc. < RL	Analyte conc. < RL
Trichloropropane, 1,2,3-	96-18-4	3.11E-03	8.67E+00		Analyte conc. < RL	Analyte conc. < RL
Trimethylbenzene, 1,2,3-	526-73-8	NA	2.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,2,4-	95-63-6	NA	1.66E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,3,5-	108-67-8	NA	1.44E+02		No cancer RB-RSV	Analyte conc. < RL
Trinitrotoluene, 2,4,6- (TNT)	118-96-7	1.15E+01	3.49E+01		Analyte conc. < RL	Analyte conc. < RL
Uranium (soluble salts)	NA	NA	4.40E+01		No cancer RB-RSV	Analyte conc. < RL
Vanadium	7440-62-2	NA	2.77E+00		No cancer RB-RSV	Analyte conc. < RL
Vinyl chloride	75-01-4	9.83E-02	8.51E+01		Analyte conc. < RL	Analyte conc. < RL
Xylenes	1330-20-7	NA	2.52E+02		No cancer RB-RSV	Analyte conc. < RL
Zinc	7440-66-6	NA	2.20E+04		No cancer RB-RSV	Analyte conc. < RL
					Sample Cumulative ILCR: 1.37E-07	Sample HI: 1.48E-03

4. View autocalculated sample cumulative

Notes:

HI = Hazard Index (sum of Hazard Quotients)

HQ = Hazard Quotient

ILCR = Incremental Lifetime Cancer Risk

NA = Not Available

RB-RSV_a = Risk-Based Residential Soil Value based on cancerRB-RSV_n = Risk-Based Residential Soil Value based on noncancer endpoint

* - CAS Number for 2,3,7,8-TCDD

** - CAS Number is for Metallic Thallium

c. The 2,3,7,8-TCDD TEQ row should include the sum of the concentrations of all dioxins, furans, and dioxin-like PCBs reported as 2,3,7,8-TCDD toxic equivalents.

d. The BaP-TE row should include the sum of the concentrations for all carcinogenic PAHs (including benzo(a)pyrene) reported as Benzo(a)pyrene toxic equivalents. See direction 6 for designated urban

e. Benzo(a)pyrene row should include only the concentration of benzo(a)pyrene in order to address its noncancer hazards.

f. The Total PCBs row should include the sum of the concentrations for all PCBs except dioxin-like PCBs. Dioxin-like PCBs should be included in the 2,3,7,8-TCDD TE concentration entry.

sample information

Site Number:

N/A

Site Name:

211 Route 9 West

Sample Number:

SB-25

Sample Depth:

0-1.5'

Sample Date:

5/7/24

1. Select chemicals from dropdown list

2. Input reported concentrations in mg/kg

3. View autocalculated ILCR and HQ associated with each individual chemical

Analyte	CASRN	^a RB-RSV _a (mg/kg)	^b RB-RSV _n (mg/kg)	Sample Concentration (mg/kg)	Calculated Sample ILCR (unitless)	Calculated Sample HQ (unitless)
2,3,7,8-TCDD TEQ ^c	1746-01-6*	2.25E-06	4.91E-05		Analyte conc. < RL	Analyte conc. < RL
BaP-TE ^d	—	7.28E-02	NA	6.00E-02	8.24E-07	No noncancer RB-RSV
Benzo(a)pyrene ^e	50-32-8	NA	1.72E+01	1.30E-02	Included in BaP-TE	7.58E-04
Total PCBs ^f	1336-36-3	1.14E-01	1.13E+00		Analyte conc. < RL	Analyte conc. < RL
Acetochlor	34256-82-1	NA	1.22E+03		No cancer RB-RSV	Analyte conc. < RL
Acetone	67-64-1	NA	4.06E+04		No cancer RB-RSV	Analyte conc. < RL
Alachlor	15972-60-8	NA	6.08E+01		No cancer RB-RSV	Analyte conc. < RL
Aldrin	309-00-2	2.02E-02	2.10E+00		Analyte conc. < RL	Analyte conc. < RL
Aluminum	7429-90-5	NA	7.25E+04		No cancer RB-RSV	Analyte conc. < RL
Antimony	7440-36-0	NA	2.60E+01		No cancer RB-RSV	Analyte conc. < RL
Barium	7440-39-3	NA	1.12E+04	2.30E+01	No cancer RB-RSV	2.05E-03
Benomyl	17804-35-2	1.16E+02	7.90E+02		Analyte conc. < RL	Analyte conc. < RL
Benzene	71-43-2	6.98E-01	1.11E+02		Analyte conc. < RL	Analyte conc. < RL
Beryllium	7440-41-7	5.67E+02	3.45E+01		Analyte conc. < RL	Analyte conc. < RL
Bis(2-chloro-1-methyl ethyl) ether	108-60-1	NA	2.80E+03		No cancer RB-RSV	Analyte conc. < RL
Boron	7440-42-8	NA	1.47E+04		No cancer RB-RSV	Analyte conc. < RL
Bromate	15541-45-4	5.36E-01	2.93E+02		Analyte conc. < RL	Analyte conc. < RL
Bromochloromethane	74-97-5	NA	1.93E+02		No cancer RB-RSV	Analyte conc. < RL
Bromoxynil	1689-84-5	2.69E+00	9.12E+02		Analyte conc. < RL	Analyte conc. < RL
Butylbenzene, n-	104-51-8	NA	3.50E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, sec-	135-98-8	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, tert-	98-06-6	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Cadmium (food)	7440-43-9	7.56E+02	6.86E+00		Analyte conc. < RL	Analyte conc. < RL
Carbaryl	63-25-2	3.17E+02	6.08E+03		Analyte conc. < RL	Analyte conc. < RL
Carbon Disulfide	75-15-0	NA	6.08E+02		No cancer RB-RSV	Analyte conc. < RL
Carbon tetrachloride	56-23-5	3.72E-01	1.30E+02		Analyte conc. < RL	Analyte conc. < RL
Chlorobenzene	108-90-7	NA	4.14E+02		No cancer RB-RSV	Analyte conc. < RL
Chromium (III) (insoluble salts)	16065-83-1	NA	4.02E+04	6.50E+00	No cancer RB-RSV	1.62E-04
Chromium (VI)	18540-29-9	9.06E-02	1.16E+02		Analyte conc. < RL	Analyte conc. < RL
Cobalt	7440-48-4	1.51E+02	2.19E+01		Analyte conc. < RL	Analyte conc. < RL
Copper	7440-50-8	NA	1.04E+04		No cancer RB-RSV	Analyte conc. < RL
Di (2-ethylhexyl) phthalate	117-81-7	1.98E+01	1.22E+03		Analyte conc. < RL	Analyte conc. < RL
Dibromochloropropane	96-12-8	6.00E-03	6.63E+00		Analyte conc. < RL	Analyte conc. < RL
Dibromomethane, 1,2-	106-93-4	2.27E-02	1.15E+02		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,1-	75-34-3	2.10E+00	1.40E+04		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,2-	107-06-2	2.85E-01	4.95E+01		Analyte conc. < RL	Analyte conc. < RL
Dichloroethylene, cis 1,2-	156-59-2	NA	1.40E+02		No cancer RB-RSV	Analyte conc. < RL
Dichloroethylene, trans 1,2-	156-60-5	NA	1.40E+03		No cancer RB-RSV	Analyte conc. < RL
Dichloropropane, 1,2-	78-87-5	1.51E+00	2.63E+01		Analyte conc. < RL	Analyte conc. < RL
Dioxane, 1,4-	123-91-1	2.78E+00	1.05E+03		Analyte conc. < RL	Analyte conc. < RL
Ethylbenzene	100-41-4	3.68E+00	4.45E+02		Analyte conc. < RL	Analyte conc. < RL
Fluoranthene	206-44-0	NA	2.30E+03	2.60E-02	No cancer RB-RSV	1.13E-05
Fluorene	86-73-7	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Hexachlorobenzene	118-74-1	1.31E-01	5.61E+01		Analyte conc. < RL	Analyte conc. < RL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	4.60E+00	2.90E+02		Analyte conc. < RL	Analyte conc. < RL
Hydrogen cyanide	74-90-8	NA	4.91E+01		No cancer RB-RSV	Analyte conc. < RL
Iron	7439-89-6	NA	5.13E+04		No cancer RB-RSV	Analyte conc. < RL
Isopropylbenzene (cumene)	98-82-8	NA	2.56E+02		No cancer RB-RSV	Analyte conc. < RL
Manganese (non-diet)	7439-96-5	NA	1.12E+03		No cancer RB-RSV	Analyte conc. < RL
Mercury (elemental)	7439-97-6	NA	3.13E+00		No cancer RB-RSV	Analyte conc. < RL
Methyl ethyl ketone	78-93-3	NA	1.70E+04		No cancer RB-RSV	Analyte conc. < RL
Methyl tert-butyl ether (MTBE)	1634-04-4	NA	6.49E+02		No cancer RB-RSV	Analyte conc. < RL
Molybdenum	7439-98-7	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Naphthalene	91-20-3	2.72E+00	2.24E+02		Analyte conc. < RL	Analyte conc. < RL
Nickel	7440-02-0	5.23E+03	9.40E+02		Analyte conc. < RL	Analyte conc. < RL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	NA	3.70E+03		No cancer RB-RSV	Analyte conc. < RL
Pentachlorophenol	87-86-5	4.84E-01	2.37E+02		Analyte conc. < RL	Analyte conc. < RL
Pentaerythritol tetranitrate (PETN)	78-11-5	NA	1.22E+02		No cancer RB-RSV	Analyte conc. < RL
Perchlorate	14797-73-0	NA	5.13E+01		No cancer RB-RSV	Analyte conc. < RL
Perfluoroheptanoic acid (PFHpA)	375-85-9	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorononanoic acid (PFNA)	375-95-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctanoic acid (PFOA)	335-67-1	3.96E+00	1.22E+00		Analyte conc. < RL	Analyte conc. < RL
Propoxur (Baygon)	114-26-1	7.88E+01	2.43E+02		Analyte conc. < RL	Analyte conc. < RL
Propyl benzene, n-	103-65-1	NA	2.53E+02		No cancer RB-RSV	Analyte conc. < RL
Selenium	7782-49-2	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Silver	7440-22-4	NA	2.37E+02		No cancer RB-RSV	Analyte conc. < RL
Tetrachloroethane, 1,1,1,2-	630-20-6	1.32E+00	2.10E+03		Analyte conc. < RL	Analyte conc. < RL
Tetrachloroethylene	127-18-4	2.38E+00	1.13E+02		Analyte conc. < RL	Analyte conc. < RL
Thallium (soluble Thallium)	7440-28-0**	NA	7.33E-01		No cancer RB-RSV	Analyte conc. < RL
Toluene	108-88-3	NA	7.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trichloroethylene	79-01-6	6.81E-01	6.21E+00		Analyte conc. < RL	Analyte conc. < RL
Trichloropropane, 1,2,3-	96-18-4	3.11E-03	8.67E+00		Analyte conc. < RL	Analyte conc. < RL
Trimethylbenzene, 1,2,3-	526-73-8	NA	2.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,2,4-	95-63-6	NA	1.66E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,3,5-	108-67-8	NA	1.44E+02		No cancer RB-RSV	Analyte conc. < RL
Trinitrotoluene, 2,4,6- (TNT)	118-96-7	1.15E+01	3.49E+01		Analyte conc. < RL	Analyte conc. < RL
Uranium (soluble salts)	NA	NA	4.40E+01		No cancer RB-RSV	Analyte conc. < RL
Vanadium	7440-62-2	NA	2.77E+00		No cancer RB-RSV	Analyte conc. < RL
Vinyl chloride	75-01-4	9.83E-02	8.51E+01		Analyte conc. < RL	Analyte conc. < RL
Xylenes	1330-20-7	NA	2.52E+02		No cancer RB-RSV	Analyte conc. < RL
Zinc	7440-66-6	NA	2.20E+04		No cancer RB-RSV	Analyte conc. < RL
					Sample Cumulative ILCR: 8.24E-07	Sample HI: 2.98E-03

4. View autocalculated sample cumulative

Notes:

HI = Hazard Index (sum of Hazard Quotients)

HQ = Hazard Quotient

ILCR = Incremental Lifetime Cancer Risk

NA = Not Available

RB-RSV_a = Risk-Based Residential Soil Value based on cancerRB-RSV_n = Risk-Based Residential Soil Value based on noncancer endpoint

* - CAS Number for 2,3,7,8-TCDD

** - CAS Number is for Metallic Thallium

c. The 2,3,7,8-TCDD TEQ row should include the sum of the concentrations of all dioxins, furans, and dioxin-like PCBs reported as 2,3,7,8-TCDD toxic equivalents.

d. The BaP-TE row should include the sum of the concentrations for all carcinogenic PAHs (including benzo(a)pyrene) reported as Benzo(a)pyrene toxic equivalents. See direction 6 for designated urban

e. Benzo(a)pyrene row should include only the concentration of benzo(a)pyrene in order to address its noncancer hazards.

f. The Total PCBs row should include the sum of the concentrations for all PCBs except dioxin-like PCBs. Dioxin-like PCBs should be included in the 2,3,7,8-TCDD TE concentration entry.

sample information

Site Number:

N/A

Site Name:

211 Route 9 West

Sample Number:

SB-35

Sample Depth:

0-1.5'

Sample Date:

5/7/24

1. Select chemicals from dropdown list

2. Input reported concentrations in mg/kg

3. View autocalculated ILCR and HQ associated with each individual chemical

Analyte	CASRN	^a RB-RSV _a (mg/kg)	^b RB-RSV _n (mg/kg)	Sample Concentration (mg/kg)	Calculated Sample ILCR (unitless)	Calculated Sample HQ (unitless)
2,3,7,8-TCDD TEQ ^c	1746-01-6*	2.25E-06	4.91E-05		Analyte conc. < RL	Analyte conc. < RL
BaP-TE ^d	—	7.28E-02	NA	1.00E-02	1.37E-07	No noncancer RB-RSV
Benzo(a)pyrene ^e	50-32-8	NA	1.72E+01		Included in BaP-TE	Analyte conc. < RL
Total PCBs ^f	1336-36-3	1.14E-01	1.13E+00		Analyte conc. < RL	Analyte conc. < RL
Acetochlor	34256-82-1	NA	1.22E+03		No cancer RB-RSV	Analyte conc. < RL
Acetone	67-64-1	NA	4.06E+04		No cancer RB-RSV	Analyte conc. < RL
Alachlor	15972-60-8	NA	6.08E+01		No cancer RB-RSV	Analyte conc. < RL
Aldrin	309-00-2	2.02E-02	2.10E+00		Analyte conc. < RL	Analyte conc. < RL
Aluminum	7429-90-5	NA	7.25E+04		No cancer RB-RSV	Analyte conc. < RL
Antimony	7440-36-0	NA	2.60E+01		No cancer RB-RSV	Analyte conc. < RL
Barium	7440-39-3	NA	1.12E+04	2.20E+01	No cancer RB-RSV	1.96E-03
Benomyl	17804-35-2	1.16E+02	7.90E+02		Analyte conc. < RL	Analyte conc. < RL
Benzene	71-43-2	6.98E-01	1.11E+02		Analyte conc. < RL	Analyte conc. < RL
Beryllium	7440-41-7	5.67E+02	3.45E+01		Analyte conc. < RL	Analyte conc. < RL
Bis(2-chloro-1-methyl ethyl) ether	108-60-1	NA	2.80E+03		No cancer RB-RSV	Analyte conc. < RL
Boron	7440-42-8	NA	1.47E+04		No cancer RB-RSV	Analyte conc. < RL
Bromate	15541-45-4	5.36E-01	2.93E+02		Analyte conc. < RL	Analyte conc. < RL
Bromochloromethane	74-97-5	NA	1.93E+02		No cancer RB-RSV	Analyte conc. < RL
Bromoxynil	1689-84-5	2.69E+00	9.12E+02		Analyte conc. < RL	Analyte conc. < RL
Butylbenzene, n-	104-51-8	NA	3.50E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, sec-	135-98-8	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, tert-	98-06-6	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Cadmium (food)	7440-43-9	7.56E+02	6.86E+00		Analyte conc. < RL	Analyte conc. < RL
Carbaryl	63-25-2	3.17E+02	6.08E+03		Analyte conc. < RL	Analyte conc. < RL
Carbon Disulfide	75-15-0	NA	6.08E+02		No cancer RB-RSV	Analyte conc. < RL
Carbon tetrachloride	56-23-5	3.72E-01	1.30E+02		Analyte conc. < RL	Analyte conc. < RL
Chlorobenzene	108-90-7	NA	4.14E+02		No cancer RB-RSV	Analyte conc. < RL
Chromium (III) (insoluble salts)	16065-83-1	NA	4.02E+04	7.70E+00	No cancer RB-RSV	1.91E-04
Chromium (VI)	18540-29-9	9.06E-02	1.16E+02		Analyte conc. < RL	Analyte conc. < RL
Cobalt	7440-48-4	1.51E+02	2.19E+01		Analyte conc. < RL	Analyte conc. < RL
Copper	7440-50-8	NA	1.04E+04		No cancer RB-RSV	Analyte conc. < RL
Di (2-ethylhexyl) phthalate	117-81-7	1.98E+01	1.22E+03		Analyte conc. < RL	Analyte conc. < RL
Dibromochloropropane	96-12-8	6.00E-03	6.63E+00		Analyte conc. < RL	Analyte conc. < RL
Dibromomethane, 1,2-	106-93-4	2.27E-02	1.15E+02		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,1-	75-34-3	2.10E+00	1.40E+04		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,2-	107-06-2	2.85E-01	4.95E+01		Analyte conc. < RL	Analyte conc. < RL
Dichloroethylene, cis 1,2-	156-59-2	NA	1.40E+02		No cancer RB-RSV	Analyte conc. < RL
Dichloroethylene, trans 1,2-	156-60-5	NA	1.40E+03		No cancer RB-RSV	Analyte conc. < RL
Dichloropropane, 1,2-	78-87-5	1.51E+00	2.63E+01		Analyte conc. < RL	Analyte conc. < RL
Dioxane, 1,4-	123-91-1	2.78E+00	1.05E+03		Analyte conc. < RL	Analyte conc. < RL
Ethylbenzene	100-41-4	3.68E+00	4.45E+02		Analyte conc. < RL	Analyte conc. < RL
Fluoranthene	206-44-0	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Fluorene	86-73-7	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Hexachlorobenzene	118-74-1	1.31E-01	5.61E+01		Analyte conc. < RL	Analyte conc. < RL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	4.60E+00	2.90E+02		Analyte conc. < RL	Analyte conc. < RL
Hydrogen cyanide	74-90-8	NA	4.91E+01		No cancer RB-RSV	Analyte conc. < RL
Iron	7439-89-6	NA	5.13E+04		No cancer RB-RSV	Analyte conc. < RL
Isopropylbenzene (cumene)	98-82-8	NA	2.56E+02		No cancer RB-RSV	Analyte conc. < RL
Manganese (non-diet)	7439-96-5	NA	1.12E+03		No cancer RB-RSV	Analyte conc. < RL
Mercury (elemental)	7439-97-6	NA	3.13E+00		No cancer RB-RSV	Analyte conc. < RL
Methyl ethyl ketone	78-93-3	NA	1.70E+04		No cancer RB-RSV	Analyte conc. < RL
Methyl tert-butyl ether (MTBE)	1634-04-4	NA	6.49E+02		No cancer RB-RSV	Analyte conc. < RL
Molybdenum	7439-98-7	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Naphthalene	91-20-3	2.72E+00	2.24E+02		Analyte conc. < RL	Analyte conc. < RL
Nickel	7440-02-0	5.23E+03	9.40E+02		Analyte conc. < RL	Analyte conc. < RL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	NA	3.70E+03		No cancer RB-RSV	Analyte conc. < RL
Pentachlorophenol	87-86-5	4.84E-01	2.37E+02		Analyte conc. < RL	Analyte conc. < RL
Pentaerythritol tetranitrate (PETN)	78-11-5	NA	1.22E+02		No cancer RB-RSV	Analyte conc. < RL
Perchlorate	14797-73-0	NA	5.13E+01		No cancer RB-RSV	Analyte conc. < RL
Perfluoroheptanoic acid (PFHpA)	375-85-9	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorononanoic acid (PFNA)	375-95-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctanoic acid (PFOA)	335-67-1	3.96E+00	1.22E+00		Analyte conc. < RL	Analyte conc. < RL
Propoxur (Baygon)	114-26-1	7.88E+01	2.43E+02		Analyte conc. < RL	Analyte conc. < RL
Propyl benzene, n-	103-65-1	NA	2.53E+02		No cancer RB-RSV	Analyte conc. < RL
Selenium	7782-49-2	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Silver	7440-22-4	NA	2.37E+02		No cancer RB-RSV	Analyte conc. < RL
Tetrachloroethane, 1,1,1,2-	630-20-6	1.32E+00	2.10E+03		Analyte conc. < RL	Analyte conc. < RL
Tetrachloroethylene	127-18-4	2.38E+00	1.13E+02		Analyte conc. < RL	Analyte conc. < RL
Thallium (soluble Thallium)	7440-28-0**	NA	7.33E-01		No cancer RB-RSV	Analyte conc. < RL
Toluene	108-88-3	NA	7.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trichloroethylene	79-01-6	6.81E-01	6.21E+00		Analyte conc. < RL	Analyte conc. < RL
Trichloropropane, 1,2,3-	96-18-4	3.11E-03	8.67E+00		Analyte conc. < RL	Analyte conc. < RL
Trimethylbenzene, 1,2,3-	526-73-8	NA	2.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,2,4-	95-63-6	NA	1.66E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,3,5-	108-67-8	NA	1.44E+02		No cancer RB-RSV	Analyte conc. < RL
Trinitrotoluene, 2,4,6- (TNT)	118-96-7	1.15E+01	3.49E+01		Analyte conc. < RL	Analyte conc. < RL
Uranium (soluble salts)	NA	NA	4.40E+01		No cancer RB-RSV	Analyte conc. < RL
Vanadium	7440-62-2	NA	2.77E+00		No cancer RB-RSV	Analyte conc. < RL
Vinyl chloride	75-01-4	9.83E-02	8.51E+01		Analyte conc. < RL	Analyte conc. < RL
Xylenes	1330-20-7	NA	2.52E+02		No cancer RB-RSV	Analyte conc. < RL
Zinc	7440-66-6	NA	2.20E+04		No cancer RB-RSV	Analyte conc. < RL
					Sample Cumulative ILCR: 1.37E-07	Sample HI: 2.15E-03

4. View autocalculated sample cumulative

Notes:

HI = Hazard Index (sum of Hazard Quotients)

HQ = Hazard Quotient

ILCR = Incremental Lifetime Cancer Risk

NA = Not Available

RB-RSV_a = Risk-Based Residential Soil Value based on cancerRB-RSV_n = Risk-Based Residential Soil Value based on noncancer endpoint

* - CAS Number for 2,3,7,8-TCDD

** - CAS Number is for Metallic Thallium

c. The 2,3,7,8-TCDD TEQ row should include the sum of the concentrations of all dioxins, furans, and dioxin-like PCBs reported as 2,3,7,8-TCDD toxic equivalents.

d. The BaP-TE row should include the sum of the concentrations for all carcinogenic PAHs (including benzo(a)pyrene) reported as Benzo(a)pyrene toxic equivalents. See direction 6 for designated urban

e. Benzo(a)pyrene row should include only the concentration of benzo(a)pyrene in order to address its noncancer hazards.

f. The Total PCBs row should include the sum of the concentrations for all PCBs except dioxin-like PCBs. Dioxin-like PCBs should be included in the 2,3,7,8-TCDD TE concentration entry.

sample information

Site Number:	N/A
Site Name:	211 Route 9 West
Sample Number:	SB-45
Sample Depth:	0-1.5'
Sample Date:	5/7/24

1. Select chemicals from dropdown list

2. Input reported concentrations in mg/kg

3. View autocalculated ILCR and HQ associated with each individual chemical

Analyte	CASRN	^a RB-RSV _a (mg/kg)	^b RB-RSV _n (mg/kg)	Sample Concentration (mg/kg)	Calculated Sample ILCR (unitless)	Calculated Sample HQ (unitless)
2,3,7,8-TCDD TEQ ^c	1746-01-6*	2.25E-06	4.91E-05		Analyte conc. < RL	Analyte conc. < RL
BaP-TE ^d	—	7.28E-02	NA	2.00E-02	2.75E-07	No noncancer RB-RSV
Benzo(a)pyrene ^e	50-32-8	NA	1.72E+01	8.70E-03	Included in BaP-TE	5.07E-04
Total PCBs ^f	1336-36-3	1.14E-01	1.13E+00		Analyte conc. < RL	Analyte conc. < RL
Acetochlor	34256-82-1	NA	1.22E+03		No cancer RB-RSV	Analyte conc. < RL
Acetone	67-64-1	NA	4.06E+04		No cancer RB-RSV	Analyte conc. < RL
Alachlor	15972-60-8	NA	6.08E+01		No cancer RB-RSV	Analyte conc. < RL
Aldrin	309-00-2	2.02E-02	2.10E+00		Analyte conc. < RL	Analyte conc. < RL
Aluminum	7429-90-5	NA	7.25E+04		No cancer RB-RSV	Analyte conc. < RL
Antimony	7440-36-0	NA	2.60E+01		No cancer RB-RSV	Analyte conc. < RL
Barium	7440-39-3	NA	1.12E+04	1.70E+01	No cancer RB-RSV	1.51E-03
Benomyl	17804-35-2	1.16E+02	7.90E+02		Analyte conc. < RL	Analyte conc. < RL
Benzene	71-43-2	6.98E-01	1.11E+02		Analyte conc. < RL	Analyte conc. < RL
Beryllium	7440-41-7	5.67E+02	3.45E+01		Analyte conc. < RL	Analyte conc. < RL
Bis(2-chloro-1-methyl ethyl) ether	108-60-1	NA	2.80E+03		No cancer RB-RSV	Analyte conc. < RL
Boron	7440-42-8	NA	1.47E+04		No cancer RB-RSV	Analyte conc. < RL
Bromate	15541-45-4	5.36E-01	2.93E+02		Analyte conc. < RL	Analyte conc. < RL
Bromochloromethane	74-97-5	NA	1.93E+02		No cancer RB-RSV	Analyte conc. < RL
Bromoxynil	1689-84-5	2.69E+00	9.12E+02		Analyte conc. < RL	Analyte conc. < RL
Butylbenzene, n-	104-51-8	NA	3.50E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, sec-	135-98-8	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, tert-	98-06-6	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Cadmium (food)	7440-43-9	7.56E+02	6.86E+00		Analyte conc. < RL	Analyte conc. < RL
Carbaryl	63-25-2	3.17E+02	6.08E+03		Analyte conc. < RL	Analyte conc. < RL
Carbon Disulfide	75-15-0	NA	6.08E+02		No cancer RB-RSV	Analyte conc. < RL
Carbon tetrachloride	56-23-5	3.72E-01	1.30E+02		Analyte conc. < RL	Analyte conc. < RL
Chlorobenzene	108-90-7	NA	4.14E+02		No cancer RB-RSV	Analyte conc. < RL
Chromium (III) (insoluble salts)	16065-83-1	NA	4.02E+04	7.10E+00	No cancer RB-RSV	1.77E-04
Chromium (VI)	18540-29-9	9.06E-02	1.16E+02		Analyte conc. < RL	Analyte conc. < RL
Cobalt	7440-48-4	1.51E+02	2.19E+01		Analyte conc. < RL	Analyte conc. < RL
Copper	7440-50-8	NA	1.04E+04		No cancer RB-RSV	Analyte conc. < RL
Di (2-ethylhexyl) phthalate	117-81-7	1.98E+01	1.22E+03		Analyte conc. < RL	Analyte conc. < RL
Dibromochloropropane	96-12-8	6.00E-03	6.63E+00		Analyte conc. < RL	Analyte conc. < RL
Dibromomethane, 1,2-	106-93-4	2.27E-02	1.15E+02		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,1-	75-34-3	2.10E+00	1.40E+04		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,2-	107-06-2	2.85E-01	4.95E+01		Analyte conc. < RL	Analyte conc. < RL
Dichloroethylene, cis 1,2-	156-59-2	NA	1.40E+02		No cancer RB-RSV	Analyte conc. < RL
Dichloroethylene, trans 1,2-	156-60-5	NA	1.40E+03		No cancer RB-RSV	Analyte conc. < RL
Dichloropropane, 1,2-	78-87-5	1.51E+00	2.63E+01		Analyte conc. < RL	Analyte conc. < RL
Dioxane, 1,4-	123-91-1	2.78E+00	1.05E+03		Analyte conc. < RL	Analyte conc. < RL
Ethylbenzene	100-41-4	3.68E+00	4.45E+02		Analyte conc. < RL	Analyte conc. < RL
Fluoranthene	206-44-0	NA	2.30E+03	1.80E-02	No cancer RB-RSV	7.82E-06
Fluorene	86-73-7	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Hexachlorobenzene	118-74-1	1.31E-01	5.61E+01		Analyte conc. < RL	Analyte conc. < RL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	4.60E+00	2.90E+02		Analyte conc. < RL	Analyte conc. < RL
Hydrogen cyanide	74-90-8	NA	4.91E+01		No cancer RB-RSV	Analyte conc. < RL
Iron	7439-89-6	NA	5.13E+04		No cancer RB-RSV	Analyte conc. < RL
Isopropylbenzene (cumene)	98-82-8	NA	2.56E+02		No cancer RB-RSV	Analyte conc. < RL
Manganese (non-diet)	7439-96-5	NA	1.12E+03		No cancer RB-RSV	Analyte conc. < RL
Mercury (elemental)	7439-97-6	NA	3.13E+00		No cancer RB-RSV	Analyte conc. < RL
Methyl ethyl ketone	78-93-3	NA	1.70E+04		No cancer RB-RSV	Analyte conc. < RL
Methyl tert-butyl ether (MTBE)	1634-04-4	NA	6.49E+02		No cancer RB-RSV	Analyte conc. < RL
Molybdenum	7439-98-7	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Naphthalene	91-20-3	2.72E+00	2.24E+02		Analyte conc. < RL	Analyte conc. < RL
Nickel	7440-02-0	5.23E+03	9.40E+02		Analyte conc. < RL	Analyte conc. < RL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	NA	3.70E+03		No cancer RB-RSV	Analyte conc. < RL
Pentachlorophenol	87-86-5	4.84E-01	2.37E+02		Analyte conc. < RL	Analyte conc. < RL
Pentaerythritol tetranitrate (PETN)	78-11-5	NA	1.22E+02		No cancer RB-RSV	Analyte conc. < RL
Perchlorate	14797-73-0	NA	5.13E+01		No cancer RB-RSV	Analyte conc. < RL
Perfluoroheptanoic acid (PFHpA)	375-85-9	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorononanoic acid (PFNA)	375-95-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctanoic acid (PFOA)	335-67-1	3.96E+00	1.22E+00		Analyte conc. < RL	Analyte conc. < RL
Propoxur (Baygon)	114-26-1	7.88E+01	2.43E+02		Analyte conc. < RL	Analyte conc. < RL
Propyl benzene, n-	103-65-1	NA	2.53E+02		No cancer RB-RSV	Analyte conc. < RL
Selenium	7782-49-2	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Silver	7440-22-4	NA	2.37E+02		No cancer RB-RSV	Analyte conc. < RL
Tetrachloroethane, 1,1,1,2-	630-20-6	1.32E+00	2.10E+03		Analyte conc. < RL	Analyte conc. < RL
Tetrachloroethylene	127-18-4	2.38E+00	1.13E+02		Analyte conc. < RL	Analyte conc. < RL
Thallium (soluble Thallium)	7440-28-0**	NA	7.33E-01		No cancer RB-RSV	Analyte conc. < RL
Toluene	108-88-3	NA	7.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trichloroethylene	79-01-6	6.81E-01	6.21E+00		Analyte conc. < RL	Analyte conc. < RL
Trichloropropane, 1,2,3-	96-18-4	3.11E-03	8.67E+00		Analyte conc. < RL	Analyte conc. < RL
Trimethylbenzene, 1,2,3-	526-73-8	NA	2.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,2,4-	95-63-6	NA	1.66E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,3,5-	108-67-8	NA	1.44E+02		No cancer RB-RSV	Analyte conc. < RL
Trinitrotoluene, 2,4,6- (TNT)	118-96-7	1.15E+01	3.49E+01		Analyte conc. < RL	Analyte conc. < RL
Uranium (soluble salts)	NA	NA	4.40E+01		No cancer RB-RSV	Analyte conc. < RL
Vanadium	7440-62-2	NA	2.77E+00		No cancer RB-RSV	Analyte conc. < RL
Vinyl chloride	75-01-4	9.83E-02	8.51E+01		Analyte conc. < RL	Analyte conc. < RL
Xylenes	1330-20-7	NA	2.52E+02		No cancer RB-RSV	Analyte conc. < RL
Zinc	7440-66-6	NA	2.20E+04		No cancer RB-RSV	Analyte conc. < RL
					Sample Cumulative ILCR: 2.75E-07	Sample HI: 2.20E-03

a. RB-RSV_a corresponds to a one-in-one million ILCR. See IRULE Appendix E, Table 1.b. RB-RSV_n corresponds to a HQ of 1 based on Hypothetical Young Child Resident scenario. See IRULE Appendix E, Table 1.

Notes:

HI = Hazard Index (sum of Hazard Quotients)

HQ = Hazard Quotient

ILCR = Incremental Lifetime Cancer Risk

NA = Not Available

RB-RSV_a = Risk-Based Residential Soil Value based on cancerRB-RSV_n = Risk-Based Residential Soil Value based on noncancer endpoint

* - CAS Number for 2,3,7,8-TCDD

** - CAS Number is for Metallic Thallium

c. The 2,3,7,8-TCDD TEQ row should include the sum of the concentrations of all dioxins, furans, and dioxin-like PCBs reported as 2,3,7,8-TCDD toxic equivalents.

d. The BaP-TE row should include the sum of the concentrations for all carcinogenic PAHs (including benzo(a)pyrene) reported as Benzo(a)pyrene toxic equivalents. See direction 6 for designated urban

e. Benzo(a)pyrene row should include only the concentration of benzo(a)pyrene in order to address its noncancer hazards.

f. The Total PCBs row should include the sum of the concentrations for all PCBs except dioxin-like PCBs. Dioxin-like PCBs should be included in the 2,3,7,8-TCDD TE concentration entry.

4. View autocalculated sample cumulative

sample information

Site Number:

N/A

Site Name:

211 Route 9 West

Sample Number:

SB-55

Sample Depth:

0-1.5'

Sample Date:

5/7/24

1. Select chemicals from dropdown list

2. Input reported concentrations in mg/kg

3. View autocalculated ILCR and HQ associated with each individual chemical

Analyte	CASRN	^a RB-RSV _a (mg/kg)	^b RB-RSV _n (mg/kg)	Sample Concentration (mg/kg)	Calculated Sample ILCR (unitless)	Calculated Sample HQ (unitless)
2,3,7,8-TCDD TEQ ^c	1746-01-6*	2.25E-06	4.91E-05		Analyte conc. < RL	Analyte conc. < RL
BaP-TE ^d	—	7.28E-02	NA	1.00E-02	1.37E-07	No noncancer RB-RSV
Benzo(a)pyrene ^e	50-32-8	NA	1.72E+01		Included in BaP-TE	Analyte conc. < RL
Total PCBs ^f	1336-36-3	1.14E-01	1.13E+00		Analyte conc. < RL	Analyte conc. < RL
Acetochlor	34256-82-1	NA	1.22E+03		No cancer RB-RSV	Analyte conc. < RL
Acetone	67-64-1	NA	4.06E+04		No cancer RB-RSV	Analyte conc. < RL
Alachlor	15972-60-8	NA	6.08E+01		No cancer RB-RSV	Analyte conc. < RL
Aldrin	309-00-2	2.02E-02	2.10E+00		Analyte conc. < RL	Analyte conc. < RL
Aluminum	7429-90-5	NA	7.25E+04		No cancer RB-RSV	Analyte conc. < RL
Antimony	7440-36-0	NA	2.60E+01		No cancer RB-RSV	Analyte conc. < RL
Barium	7440-39-3	NA	1.12E+04	4.80E+01	No cancer RB-RSV	4.27E-03
Benomyl	17804-35-2	1.16E+02	7.90E+02		Analyte conc. < RL	Analyte conc. < RL
Benzene	71-43-2	6.98E-01	1.11E+02		Analyte conc. < RL	Analyte conc. < RL
Beryllium	7440-41-7	5.67E+02	3.45E+01		Analyte conc. < RL	Analyte conc. < RL
Bis(2-chloro-1-methyl ethyl) ether	108-60-1	NA	2.80E+03		No cancer RB-RSV	Analyte conc. < RL
Boron	7440-42-8	NA	1.47E+04		No cancer RB-RSV	Analyte conc. < RL
Bromate	15541-45-4	5.36E-01	2.93E+02		Analyte conc. < RL	Analyte conc. < RL
Bromochloromethane	74-97-5	NA	1.93E+02		No cancer RB-RSV	Analyte conc. < RL
Bromoxynil	1689-84-5	2.69E+00	9.12E+02		Analyte conc. < RL	Analyte conc. < RL
Butylbenzene, n-	104-51-8	NA	3.50E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, sec-	135-98-8	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, tert-	98-06-6	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Cadmium (food)	7440-43-9	7.56E+02	6.86E+00		Analyte conc. < RL	Analyte conc. < RL
Carbaryl	63-25-2	3.17E+02	6.08E+03		Analyte conc. < RL	Analyte conc. < RL
Carbon Disulfide	75-15-0	NA	6.08E+02		No cancer RB-RSV	Analyte conc. < RL
Carbon tetrachloride	56-23-5	3.72E-01	1.30E+02		Analyte conc. < RL	Analyte conc. < RL
Chlorobenzene	108-90-7	NA	4.14E+02		No cancer RB-RSV	Analyte conc. < RL
Chromium (III) (insoluble salts)	16065-83-1	NA	4.02E+04	1.00E+01	No cancer RB-RSV	2.49E-04
Chromium (VI)	18540-29-9	9.06E-02	1.16E+02		Analyte conc. < RL	Analyte conc. < RL
Cobalt	7440-48-4	1.51E+02	2.19E+01		Analyte conc. < RL	Analyte conc. < RL
Copper	7440-50-8	NA	1.04E+04		No cancer RB-RSV	Analyte conc. < RL
Di (2-ethylhexyl) phthalate	117-81-7	1.98E+01	1.22E+03		Analyte conc. < RL	Analyte conc. < RL
Dibromochloropropane	96-12-8	6.00E-03	6.63E+00		Analyte conc. < RL	Analyte conc. < RL
Dibromomethane, 1,2-	106-93-4	2.27E-02	1.15E+02		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,1-	75-34-3	2.10E+00	1.40E+04		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,2-	107-06-2	2.85E-01	4.95E+01		Analyte conc. < RL	Analyte conc. < RL
Dichloroethylene, cis 1,2-	156-59-2	NA	1.40E+02		No cancer RB-RSV	Analyte conc. < RL
Dichloroethylene, trans 1,2-	156-60-5	NA	1.40E+03		No cancer RB-RSV	Analyte conc. < RL
Dichloropropane, 1,2-	78-87-5	1.51E+00	2.63E+01		Analyte conc. < RL	Analyte conc. < RL
Dioxane, 1,4-	123-91-1	2.78E+00	1.05E+03		Analyte conc. < RL	Analyte conc. < RL
Ethylbenzene	100-41-4	3.68E+00	4.45E+02		Analyte conc. < RL	Analyte conc. < RL
Fluoranthene	206-44-0	NA	2.30E+03	1.00E-02	No cancer RB-RSV	4.35E-06
Fluorene	86-73-7	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Hexachlorobenzene	118-74-1	1.31E-01	5.61E+01		Analyte conc. < RL	Analyte conc. < RL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	4.60E+00	2.90E+02		Analyte conc. < RL	Analyte conc. < RL
Hydrogen cyanide	74-90-8	NA	4.91E+01		No cancer RB-RSV	Analyte conc. < RL
Iron	7439-89-6	NA	5.13E+04		No cancer RB-RSV	Analyte conc. < RL
Isopropylbenzene (cumene)	98-82-8	NA	2.56E+02		No cancer RB-RSV	Analyte conc. < RL
Manganese (non-diet)	7439-96-5	NA	1.12E+03		No cancer RB-RSV	Analyte conc. < RL
Mercury (elemental)	7439-97-6	NA	3.13E+00		No cancer RB-RSV	Analyte conc. < RL
Methyl ethyl ketone	78-93-3	NA	1.70E+04		No cancer RB-RSV	Analyte conc. < RL
Methyl tert-butyl ether (MTBE)	1634-04-4	NA	6.49E+02		No cancer RB-RSV	Analyte conc. < RL
Molybdenum	7439-98-7	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Naphthalene	91-20-3	2.72E+00	2.24E+02		Analyte conc. < RL	Analyte conc. < RL
Nickel	7440-02-0	5.23E+03	9.40E+02		Analyte conc. < RL	Analyte conc. < RL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	NA	3.70E+03		No cancer RB-RSV	Analyte conc. < RL
Pentachlorophenol	87-86-5	4.84E-01	2.37E+02		Analyte conc. < RL	Analyte conc. < RL
Pentaerythritol tetranitrate (PETN)	78-11-5	NA	1.22E+02		No cancer RB-RSV	Analyte conc. < RL
Perchlorate	14797-73-0	NA	5.13E+01		No cancer RB-RSV	Analyte conc. < RL
Perfluoroheptanoic acid (PFHpA)	375-85-9	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorononanoic acid (PFNA)	375-95-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctanoic acid (PFOA)	335-67-1	3.96E+00	1.22E+00		Analyte conc. < RL	Analyte conc. < RL
Propoxur (Baygon)	114-26-1	7.88E+01	2.43E+02		Analyte conc. < RL	Analyte conc. < RL
Propyl benzene, n-	103-65-1	NA	2.53E+02		No cancer RB-RSV	Analyte conc. < RL
Selenium	7782-49-2	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Silver	7440-22-4	NA	2.37E+02		No cancer RB-RSV	Analyte conc. < RL
Tetrachloroethane, 1,1,1,2-	630-20-6	1.32E+00	2.10E+03		Analyte conc. < RL	Analyte conc. < RL
Tetrachloroethylene	127-18-4	2.38E+00	1.13E+02		Analyte conc. < RL	Analyte conc. < RL
Thallium (soluble Thallium)	7440-28-0**	NA	7.33E-01		No cancer RB-RSV	Analyte conc. < RL
Toluene	108-88-3	NA	7.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trichloroethylene	79-01-6	6.81E-01	6.21E+00		Analyte conc. < RL	Analyte conc. < RL
Trichloropropane, 1,2,3-	96-18-4	3.11E-03	8.67E+00		Analyte conc. < RL	Analyte conc. < RL
Trimethylbenzene, 1,2,3-	526-73-8	NA	2.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,2,4-	95-63-6	NA	1.66E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,3,5-	108-67-8	NA	1.44E+02		No cancer RB-RSV	Analyte conc. < RL
Trinitrotoluene, 2,4,6- (TNT)	118-96-7	1.15E+01	3.49E+01		Analyte conc. < RL	Analyte conc. < RL
Uranium (soluble salts)	NA	NA	4.40E+01		No cancer RB-RSV	Analyte conc. < RL
Vanadium	7440-62-2	NA	2.77E+00		No cancer RB-RSV	Analyte conc. < RL
Vinyl chloride	75-01-4	9.83E-02	8.51E+01		Analyte conc. < RL	Analyte conc. < RL
Xylenes	1330-20-7	NA	2.52E+02		No cancer RB-RSV	Analyte conc. < RL
Zinc	7440-66-6	NA	2.20E+04		No cancer RB-RSV	Analyte conc. < RL
					Sample Cumulative ILCR: 1.37E-07	Sample HI: 4.52E-03

4. View autocalculated sample cumulative

Notes:

HI = Hazard Index (sum of Hazard Quotients)

HQ = Hazard Quotient

ILCR = Incremental Lifetime Cancer Risk

NA = Not Available

RB-RSV_a = Risk-Based Residential Soil Value based on cancerRB-RSV_n = Risk-Based Residential Soil Value based on noncancer endpoint

* - CAS Number for 2,3,7,8-TCDD

** - CAS Number is for Metallic Thallium

c. The 2,3,7,8-TCDD TEQ row should include the sum of the concentrations of all dioxins, furans, and dioxin-like PCBs reported as 2,3,7,8-TCDD toxic equivalents.

d. The BaP-TE row should include the sum of the concentrations for all carcinogenic PAHs (including benzo(a)pyrene) reported as Benzo(a)pyrene toxic equivalents. See direction 6 for designated urban

e. Benzo(a)pyrene row should include only the concentration of benzo(a)pyrene in order to address its noncancer hazards.

f. The Total PCBs row should include the sum of the concentrations for all PCBs except dioxin-like PCBs. Dioxin-like PCBs should be included in the 2,3,7,8-TCDD TE concentration entry.

sample information

Site Number:	N/A
Site Name:	211 Route 9 West
Sample Number:	SB-75
Sample Depth:	0-1.5'
Sample Date:	5/7/24

1. Select chemicals from dropdown list

2. Input reported concentrations in mg/kg

3. View autocalculated ILCR and HQ associated with each individual chemical

Analyte	CASRN	^a RB-RSV _a (mg/kg)	^b RB-RSV _n (mg/kg)	Sample Concentration (mg/kg)	Calculated Sample ILCR (unitless)	Calculated Sample HQ (unitless)
2,3,7,8-TCDD TEQ ^c	1746-01-6*	2.25E-06	4.91E-05		Analyte conc. < RL	Analyte conc. < RL
BaP-TE ^d	—	7.28E-02	NA	1.00E-02	1.37E-07	No noncancer RB-RSV
Benzo(a)pyrene ^e	50-32-8	NA	1.72E+01		Included in BaP-TE	Analyte conc. < RL
Total PCBs ^f	1336-36-3	1.14E-01	1.13E+00		Analyte conc. < RL	Analyte conc. < RL
Acetochlor	34256-82-1	NA	1.22E+03		No cancer RB-RSV	Analyte conc. < RL
Acetone	67-64-1	NA	4.06E+04		No cancer RB-RSV	Analyte conc. < RL
Alachlor	15972-60-8	NA	6.08E+01		No cancer RB-RSV	Analyte conc. < RL
Aldrin	309-00-2	2.02E-02	2.10E+00		Analyte conc. < RL	Analyte conc. < RL
Aluminum	7429-90-5	NA	7.25E+04		No cancer RB-RSV	Analyte conc. < RL
Antimony	7440-36-0	NA	2.60E+01		No cancer RB-RSV	Analyte conc. < RL
Barium	7440-39-3	NA	1.12E+04	2.90E+01	No cancer RB-RSV	2.58E-03
Benomyl	17804-35-2	1.16E+02	7.90E+02		Analyte conc. < RL	Analyte conc. < RL
Benzene	71-43-2	6.98E-01	1.11E+02		Analyte conc. < RL	Analyte conc. < RL
Beryllium	7440-41-7	5.67E+02	3.45E+01		Analyte conc. < RL	Analyte conc. < RL
Bis(2-chloro-1-methyl ethyl) ether	108-60-1	NA	2.80E+03		No cancer RB-RSV	Analyte conc. < RL
Boron	7440-42-8	NA	1.47E+04		No cancer RB-RSV	Analyte conc. < RL
Bromate	15541-45-4	5.36E-01	2.93E+02		Analyte conc. < RL	Analyte conc. < RL
Bromochloromethane	74-97-5	NA	1.93E+02		No cancer RB-RSV	Analyte conc. < RL
Bromoxynil	1689-84-5	2.69E+00	9.12E+02		Analyte conc. < RL	Analyte conc. < RL
Butylbenzene, n-	104-51-8	NA	3.50E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, sec-	135-98-8	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, tert-	98-06-6	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Cadmium (food)	7440-43-9	7.56E+02	6.86E+00		Analyte conc. < RL	Analyte conc. < RL
Carbaryl	63-25-2	3.17E+02	6.08E+03		Analyte conc. < RL	Analyte conc. < RL
Carbon Disulfide	75-15-0	NA	6.08E+02		No cancer RB-RSV	Analyte conc. < RL
Carbon tetrachloride	56-23-5	3.72E-01	1.30E+02		Analyte conc. < RL	Analyte conc. < RL
Chlorobenzene	108-90-7	NA	4.14E+02		No cancer RB-RSV	Analyte conc. < RL
Chromium (III) (insoluble salts)	16065-83-1	NA	4.02E+04	6.50E+00	No cancer RB-RSV	1.62E-04
Chromium (VI)	18540-29-9	9.06E-02	1.16E+02		Analyte conc. < RL	Analyte conc. < RL
Cobalt	7440-48-4	1.51E+02	2.19E+01		Analyte conc. < RL	Analyte conc. < RL
Copper	7440-50-8	NA	1.04E+04		No cancer RB-RSV	Analyte conc. < RL
Di (2-ethylhexyl) phthalate	117-81-7	1.98E+01	1.22E+03		Analyte conc. < RL	Analyte conc. < RL
Dibromochloropropane	96-12-8	6.00E-03	6.63E+00		Analyte conc. < RL	Analyte conc. < RL
Dibromomethane, 1,2-	106-93-4	2.27E-02	1.15E+02		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,1-	75-34-3	2.10E+00	1.40E+04		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,2-	107-06-2	2.85E-01	4.95E+01		Analyte conc. < RL	Analyte conc. < RL
Dichloroethylene, cis 1,2-	156-59-2	NA	1.40E+02		No cancer RB-RSV	Analyte conc. < RL
Dichloroethylene, trans 1,2-	156-60-5	NA	1.40E+03		No cancer RB-RSV	Analyte conc. < RL
Dichloropropane, 1,2-	78-87-5	1.51E+00	2.63E+01		Analyte conc. < RL	Analyte conc. < RL
Dioxane, 1,4-	123-91-1	2.78E+00	1.05E+03		Analyte conc. < RL	Analyte conc. < RL
Ethylbenzene	100-41-4	3.68E+00	4.45E+02		Analyte conc. < RL	Analyte conc. < RL
Fluoranthene	206-44-0	NA	2.30E+03	9.00E-02	No cancer RB-RSV	3.91E-05
Fluorene	86-73-7	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Hexachlorobenzene	118-74-1	1.31E-01	5.61E+01		Analyte conc. < RL	Analyte conc. < RL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	4.60E+00	2.90E+02		Analyte conc. < RL	Analyte conc. < RL
Hydrogen cyanide	74-90-8	NA	4.91E+01		No cancer RB-RSV	Analyte conc. < RL
Iron	7439-89-6	NA	5.13E+04		No cancer RB-RSV	Analyte conc. < RL
Isopropylbenzene (cumene)	98-82-8	NA	2.56E+02		No cancer RB-RSV	Analyte conc. < RL
Manganese (non-diet)	7439-96-5	NA	1.12E+03		No cancer RB-RSV	Analyte conc. < RL
Mercury (elemental)	7439-97-6	NA	3.13E+00		No cancer RB-RSV	Analyte conc. < RL
Methyl ethyl ketone	78-93-3	NA	1.70E+04		No cancer RB-RSV	Analyte conc. < RL
Methyl tert-butyl ether (MTBE)	1634-04-4	NA	6.49E+02		No cancer RB-RSV	Analyte conc. < RL
Molybdenum	7439-98-7	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Naphthalene	91-20-3	2.72E+00	2.24E+02		Analyte conc. < RL	Analyte conc. < RL
Nickel	7440-02-0	5.23E+03	9.40E+02		Analyte conc. < RL	Analyte conc. < RL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	NA	3.70E+03		No cancer RB-RSV	Analyte conc. < RL
Pentachlorophenol	87-86-5	4.84E-01	2.37E+02		Analyte conc. < RL	Analyte conc. < RL
Pentaerythritol tetranitrate (PETN)	78-11-5	NA	1.22E+02		No cancer RB-RSV	Analyte conc. < RL
Perchlorate	14797-73-0	NA	5.13E+01		No cancer RB-RSV	Analyte conc. < RL
Perfluoroheptanoic acid (PFHpA)	375-85-9	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorononanoic acid (PFNA)	375-95-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctanoic acid (PFOA)	335-67-1	3.96E+00	1.22E+00		Analyte conc. < RL	Analyte conc. < RL
Propoxur (Baygon)	114-26-1	7.88E+01	2.43E+02		Analyte conc. < RL	Analyte conc. < RL
Propyl benzene, n-	103-65-1	NA	2.53E+02		No cancer RB-RSV	Analyte conc. < RL
Selenium	7782-49-2	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Silver	7440-22-4	NA	2.37E+02		No cancer RB-RSV	Analyte conc. < RL
Tetrachloroethane, 1,1,1,2-	630-20-6	1.32E+00	2.10E+03		Analyte conc. < RL	Analyte conc. < RL
Tetrachloroethylene	127-18-4	2.38E+00	1.13E+02		Analyte conc. < RL	Analyte conc. < RL
Thallium (soluble Thallium)	7440-28-0**	NA	7.33E-01		No cancer RB-RSV	Analyte conc. < RL
Toluene	108-88-3	NA	7.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trichloroethylene	79-01-6	6.81E-01	6.21E+00		Analyte conc. < RL	Analyte conc. < RL
Trichloropropane, 1,2,3-	96-18-4	3.11E-03	8.67E+00		Analyte conc. < RL	Analyte conc. < RL
Trimethylbenzene, 1,2,3-	526-73-8	NA	2.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,2,4-	95-63-6	NA	1.66E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,3,5-	108-67-8	NA	1.44E+02		No cancer RB-RSV	Analyte conc. < RL
Trinitrotoluene, 2,4,6- (TNT)	118-96-7	1.15E+01	3.49E+01		Analyte conc. < RL	Analyte conc. < RL
Uranium (soluble salts)	NA	NA	4.40E+01		No cancer RB-RSV	Analyte conc. < RL
Vanadium	7440-62-2	NA	2.77E+00		No cancer RB-RSV	Analyte conc. < RL
Vinyl chloride	75-01-4	9.83E-02	8.51E+01		Analyte conc. < RL	Analyte conc. < RL
Xylenes	1330-20-7	NA	2.52E+02		No cancer RB-RSV	Analyte conc. < RL
Zinc	7440-66-6	NA	2.20E+04		No cancer RB-RSV	Analyte conc. < RL
					Sample Cumulative ILCR: 1.37E-07	Sample HI: 2.78E-03

4. View autocalculated sample cumulative

Notes:

HI = Hazard Index (sum of Hazard Quotients)

HQ = Hazard Quotient

ILCR = Incremental Lifetime Cancer Risk

NA = Not Available

RB-RSV_a = Risk-Based Residential Soil Value based on cancerRB-RSV_n = Risk-Based Residential Soil Value based on noncancer endpoint

* - CAS Number for 2,3,7,8-TCDD

** - CAS Number is for Metallic Thallium

c. The 2,3,7,8-TCDD TEQ row should include the sum of the concentrations of all dioxins, furans, and dioxin-like PCBs reported as 2,3,7,8-TCDD toxic equivalents.

d. The BaP-TE row should include the sum of the concentrations for all carcinogenic PAHs (including benzo(a)pyrene) reported as Benzo(a)pyrene toxic equivalents. See direction 6 for designated urban

e. Benzo(a)pyrene row should include only the concentration of benzo(a)pyrene in order to address its noncancer hazards.

f. The Total PCBs row should include the sum of the concentrations for all PCBs except dioxin-like PCBs. Dioxin-like PCBs should be included in the 2,3,7,8-TCDD TE concentration entry.

sample information

Site Number:

N/A

Site Name:

211 Route 9 West

Sample Number:

SB-85

Sample Depth:

0-1.5'

Sample Date:

5/7/24

1. Select chemicals from dropdown list

2. Input reported concentrations in mg/kg

3. View autocalculated ILCR and HQ associated with each individual chemical

Analyte	CASRN	^a RB-RSV _a (mg/kg)	^b RB-RSV _n (mg/kg)	Sample Concentration (mg/kg)	Calculated Sample ILCR (unitless)	Calculated Sample HQ (unitless)
2,3,7,8-TCDD TEQ ^c	1746-01-6*	2.25E-06	4.91E-05		Analyte conc. < RL	Analyte conc. < RL
BaP-TE ^d	—	7.28E-02	NA	5.00E-02	6.86E-07	No noncancer RB-RSV
Benzo(a)pyrene ^e	50-32-8	NA	1.72E+01	3.20E-02	Included in BaP-TE	1.87E-03
Total PCBs ^f	1336-36-3	1.14E-01	1.13E+00		Analyte conc. < RL	Analyte conc. < RL
Acetochlor	34256-82-1	NA	1.22E+03		No cancer RB-RSV	Analyte conc. < RL
Acetone	67-64-1	NA	4.06E+04		No cancer RB-RSV	Analyte conc. < RL
Alachlor	15972-60-8	NA	6.08E+01		No cancer RB-RSV	Analyte conc. < RL
Aldrin	309-00-2	2.02E-02	2.10E+00		Analyte conc. < RL	Analyte conc. < RL
Aluminum	7429-90-5	NA	7.25E+04		No cancer RB-RSV	Analyte conc. < RL
Antimony	7440-36-0	NA	2.60E+01		No cancer RB-RSV	Analyte conc. < RL
Barium	7440-39-3	NA	1.12E+04	2.00E+01	No cancer RB-RSV	1.78E-03
Benomyl	17804-35-2	1.16E+02	7.90E+02		Analyte conc. < RL	Analyte conc. < RL
Benzene	71-43-2	6.98E-01	1.11E+02		Analyte conc. < RL	Analyte conc. < RL
Beryllium	7440-41-7	5.67E+02	3.45E+01		Analyte conc. < RL	Analyte conc. < RL
Bis(2-chloro-1-methyl ethyl) ether	108-60-1	NA	2.80E+03		No cancer RB-RSV	Analyte conc. < RL
Boron	7440-42-8	NA	1.47E+04		No cancer RB-RSV	Analyte conc. < RL
Bromate	15541-45-4	5.36E-01	2.93E+02		Analyte conc. < RL	Analyte conc. < RL
Bromochloromethane	74-97-5	NA	1.93E+02		No cancer RB-RSV	Analyte conc. < RL
Bromoxynil	1689-84-5	2.69E+00	9.12E+02		Analyte conc. < RL	Analyte conc. < RL
Butylbenzene, n-	104-51-8	NA	3.50E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, sec-	135-98-8	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Butylbenzene, tert-	98-06-6	NA	7.01E+03		No cancer RB-RSV	Analyte conc. < RL
Cadmium (food)	7440-43-9	7.56E+02	6.86E+00		Analyte conc. < RL	Analyte conc. < RL
Carbaryl	63-25-2	3.17E+02	6.08E+03		Analyte conc. < RL	Analyte conc. < RL
Carbon Disulfide	75-15-0	NA	6.08E+02		No cancer RB-RSV	Analyte conc. < RL
Carbon tetrachloride	56-23-5	3.72E-01	1.30E+02		Analyte conc. < RL	Analyte conc. < RL
Chlorobenzene	108-90-7	NA	4.14E+02		No cancer RB-RSV	Analyte conc. < RL
Chromium (III) (insoluble salts)	16065-83-1	NA	4.02E+04	8.10E+00	No cancer RB-RSV	2.01E-04
Chromium (VI)	18540-29-9	9.06E-02	1.16E+02		Analyte conc. < RL	Analyte conc. < RL
Cobalt	7440-48-4	1.51E+02	2.19E+01		Analyte conc. < RL	Analyte conc. < RL
Copper	7440-50-8	NA	1.04E+04		No cancer RB-RSV	Analyte conc. < RL
Di (2-ethylhexyl) phthalate	117-81-7	1.98E+01	1.22E+03		Analyte conc. < RL	Analyte conc. < RL
Dibromochloropropane	96-12-8	6.00E-03	6.63E+00		Analyte conc. < RL	Analyte conc. < RL
Dibromomethane, 1,2-	106-93-4	2.27E-02	1.15E+02		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,1-	75-34-3	2.10E+00	1.40E+04		Analyte conc. < RL	Analyte conc. < RL
Dichloroethane, 1,2-	107-06-2	2.85E-01	4.95E+01		Analyte conc. < RL	Analyte conc. < RL
Dichloroethylene, cis 1,2-	156-59-2	NA	1.40E+02		No cancer RB-RSV	Analyte conc. < RL
Dichloroethylene, trans 1,2-	156-60-5	NA	1.40E+03		No cancer RB-RSV	Analyte conc. < RL
Dichloropropane, 1,2-	78-87-5	1.51E+00	2.63E+01		Analyte conc. < RL	Analyte conc. < RL
Dioxane, 1,4-	123-91-1	2.78E+00	1.05E+03		Analyte conc. < RL	Analyte conc. < RL
Ethylbenzene	100-41-4	3.68E+00	4.45E+02		Analyte conc. < RL	Analyte conc. < RL
Fluoranthene	206-44-0	NA	2.30E+03	6.40E-02	No cancer RB-RSV	2.78E-05
Fluorene	86-73-7	NA	2.30E+03		No cancer RB-RSV	Analyte conc. < RL
Hexachlorobenzene	118-74-1	1.31E-01	5.61E+01		Analyte conc. < RL	Analyte conc. < RL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	4.60E+00	2.90E+02		Analyte conc. < RL	Analyte conc. < RL
Hydrogen cyanide	74-90-8	NA	4.91E+01		No cancer RB-RSV	Analyte conc. < RL
Iron	7439-89-6	NA	5.13E+04		No cancer RB-RSV	Analyte conc. < RL
Isopropylbenzene (cumene)	98-82-8	NA	2.56E+02		No cancer RB-RSV	Analyte conc. < RL
Manganese (non-diet)	7439-96-5	NA	1.12E+03		No cancer RB-RSV	Analyte conc. < RL
Mercury (elemental)	7439-97-6	NA	3.13E+00		No cancer RB-RSV	Analyte conc. < RL
Methyl ethyl ketone	78-93-3	NA	1.70E+04		No cancer RB-RSV	Analyte conc. < RL
Methyl tert-butyl ether (MTBE)	1634-04-4	NA	6.49E+02		No cancer RB-RSV	Analyte conc. < RL
Molybdenum	7439-98-7	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Naphthalene	91-20-3	2.72E+00	2.24E+02		Analyte conc. < RL	Analyte conc. < RL
Nickel	7440-02-0	5.23E+03	9.40E+02		Analyte conc. < RL	Analyte conc. < RL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	NA	3.70E+03		No cancer RB-RSV	Analyte conc. < RL
Pentachlorophenol	87-86-5	4.84E-01	2.37E+02		Analyte conc. < RL	Analyte conc. < RL
Pentaerythritol tetranitrate (PETN)	78-11-5	NA	1.22E+02		No cancer RB-RSV	Analyte conc. < RL
Perchlorate	14797-73-0	NA	5.13E+01		No cancer RB-RSV	Analyte conc. < RL
Perfluoroheptanoic acid (PFHpA)	375-85-9	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorononanoic acid (PFNA)	375-95-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	NA	1.22E+00		No cancer RB-RSV	Analyte conc. < RL
Perfluorooctanoic acid (PFOA)	335-67-1	3.96E+00	1.22E+00		Analyte conc. < RL	Analyte conc. < RL
Propoxur (Baygon)	114-26-1	7.88E+01	2.43E+02		Analyte conc. < RL	Analyte conc. < RL
Propyl benzene, n-	103-65-1	NA	2.53E+02		No cancer RB-RSV	Analyte conc. < RL
Selenium	7782-49-2	NA	3.66E+02		No cancer RB-RSV	Analyte conc. < RL
Silver	7440-22-4	NA	2.37E+02		No cancer RB-RSV	Analyte conc. < RL
Tetrachloroethane, 1,1,1,2-	630-20-6	1.32E+00	2.10E+03		Analyte conc. < RL	Analyte conc. < RL
Tetrachloroethylene	127-18-4	2.38E+00	1.13E+02		Analyte conc. < RL	Analyte conc. < RL
Thallium (soluble Thallium)	7440-28-0**	NA	7.33E-01		No cancer RB-RSV	Analyte conc. < RL
Toluene	108-88-3	NA	7.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trichloroethylene	79-01-6	6.81E-01	6.21E+00		Analyte conc. < RL	Analyte conc. < RL
Trichloropropane, 1,2,3-	96-18-4	3.11E-03	8.67E+00		Analyte conc. < RL	Analyte conc. < RL
Trimethylbenzene, 1,2,3-	526-73-8	NA	2.06E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,2,4-	95-63-6	NA	1.66E+02		No cancer RB-RSV	Analyte conc. < RL
Trimethylbenzene, 1,3,5-	108-67-8	NA	1.44E+02		No cancer RB-RSV	Analyte conc. < RL
Trinitrotoluene, 2,4,6- (TNT)	118-96-7	1.15E+01	3.49E+01		Analyte conc. < RL	Analyte conc. < RL
Uranium (soluble salts)	NA	NA	4.40E+01		No cancer RB-RSV	Analyte conc. < RL
Vanadium	7440-62-2	NA	2.77E+00		No cancer RB-RSV	Analyte conc. < RL
Vinyl chloride	75-01-4	9.83E-02	8.51E+01		Analyte conc. < RL	Analyte conc. < RL
Xylenes	1330-20-7	NA	2.52E+02		No cancer RB-RSV	Analyte conc. < RL
Zinc	7440-66-6	NA	2.20E+04		No cancer RB-RSV	Analyte conc. < RL
					Sample Cumulative ILCR: 6.86E-07	Sample HI: 3.87E-03

4. View autocalculated sample cumulative

Notes:

HI = Hazard Index (sum of Hazard Quotients)

HQ = Hazard Quotient

ILCR = Incremental Lifetime Cancer Risk

NA = Not Available

RB-RSV_a = Risk-Based Residential Soil Value based on cancerRB-RSV_n = Risk-Based Residential Soil Value based on noncancer endpoint

* - CAS Number for 2,3,7,8-TCDD

** - CAS Number is for Metallic Thallium

c. The 2,3,7,8-TCDD TEQ row should include the sum of the concentrations of all dioxins, furans, and dioxin-like PCBs reported as 2,3,7,8-TCDD toxic equivalents.

d. The BaP-TE row should include the sum of the concentrations for all carcinogenic PAHs (including benzo(a)pyrene) reported as Benzo(a)pyrene toxic equivalents. See direction 6 for designated urban

e. Benzo(a)pyrene row should include only the concentration of benzo(a)pyrene in order to address its noncancer hazards.

f. The Total PCBs row should include the sum of the concentrations for all PCBs except dioxin-like PCBs. Dioxin-like PCBs should be included in the 2,3,7,8-TCDD TE concentration entry.

Brownfields Phase II Environmental Site Assessment
Groundwater Sampling Data Summary
211 Route 9 West
Wilmington, Vermont



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Groundwater Sample	MW-1	MW-2	MW-3	MW-4	Duplicate	I-Rule Groundwater Vapor Intrusion Standard- Resident (ug/l)	Vermont Groundwater Enforcement Standard (ug/l)
Depth to Groundwater (Ft)	3.45	2.55	3.80	3.58	3.80		
pH (standard units)	6.11	5.84	60.4	6.07	60.4		
Conductivity (umhos)	1,488	96.8	244	597	244		
Temperature (celcius)	11.9	10.8	11.7	10.8	11.7		
Turbidity (n.t.u.)	27.4	0.88	37.4	25.9	37.4		
Sample Date	5/16/24	5/16/24	5/16/24	5/16/24	5/16/24		
VOCs, EPA Method 8260c (ug/l)							
Dichlorodifluoromethane	ND<2	ND<2	ND<2	ND<2	ND<2	-	-
Chloromethane	ND<2	ND<2	ND<2	ND<2	11	-	-
Vinyl Chloride	ND<1	ND<1	ND<1	ND<1	ND<1	0.13	2
Bromomethane	ND<2	ND<2	ND<2	ND<2	ND<2	-	5
Chloroethane	ND<2	ND<2	ND<2	ND<2	ND<2	31,000	-
Trichlorofluoromethane	ND<2	ND<2	ND<2	ND<2	ND<2	-	-
Diethyl Ether	ND<2	ND<2	ND<2	ND<2	ND<2	-	-
Acetone	ND<10	ND<10	ND<10	ND<10	ND<10	-	950
1,1-Dichloroethene	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	7
Methylene chloride	ND<1	ND<1	ND<1	ND<1	ND<1	680	5
Carbon disulfide	ND<2	ND<2	ND<2	ND<2	ND<2	-	-
Methyl-t-butyl ether (MTBE)	ND<1	ND<1	ND<1	ND<1	ND<1	-	11
trans-1,2-Dichloroethene	ND<1	ND<1	ND<1	ND<1	ND<1	-	100
1,1-Dichloroethane	ND<1	ND<1	ND<1	ND<1	ND<1	270	70
2,2-Dichloropropane	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
cis-1,2-Dichloroethene	ND<1	ND<1	ND<1	ND<1	ND<1	-	70
2-Butanone (MEK)	ND<10	ND<10	ND<10	ND<10	ND<10	-	511
Bromochloromethane	ND<1	ND<1	ND<1	ND<1	ND<1	-	8
Tetrahydrofuran (THF)	ND<10	ND<10	ND<10	ND<10	ND<10	-	-
Chloroform	ND<1	ND<1	ND<1	ND<1	ND<1	0.41	-
1,1,1-Trichloroethane	ND<1	ND<1	ND<1	ND<1	ND<1	-	200
Carbon tetrachloride	ND<1	ND<1	ND<1	ND<1	ND<1	0.24	5
1,1-Dichloropropene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
Benzene	ND<1	ND<1	ND<1	ND<1	ND<1	0.92	5
1,2-Dichloroethane	ND<1	ND<1	ND<1	ND<1	ND<1	-	5
Trichloroethene (TCE)	ND<1	ND<1	ND<1	ND<1	ND<1	0.82	5
1,2-Dichloropropane	ND<1	ND<1	ND<1	ND<1	ND<1	-	5
Dibromomethane	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
Bromodichloromethane	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-
4-Methyl-2-pentanone (MIBK)	ND<10	ND<10	ND<10	ND<10	ND<10	-	-
cis-1,3-Dichloropropene	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-
Toluene	ND<1	ND<1	ND<1	ND<1	ND<1	-	1000
trans-1,3-Dichloropropene	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-
1,1,2-Trichloroethane	ND<1	ND<1	ND<1	ND<1	ND<1	-	5
2-Hexanone	ND<10	ND<10	ND<10	ND<10	ND<10	-	-
Tetrachloroethene (PCE)	ND<1	ND<1	ND<1	ND<1	ND<1	1.5	5
1,3-Dichloropropane	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
Dibromochloromethane	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
1,2-Dibromoethane (EDB)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	0.05
Chlorobenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	100
1,1,1,2-Tetrachloroethane	ND<1	ND<1	ND<1	ND<1	ND<1	-	70
Ethylbenzene	ND<1	ND<1	ND<1	ND<1	ND<1	2.2	700
mp-Xylene	ND<1	ND<1	ND<1	ND<1	ND<1	-	10000**
o-Xylene	ND<1	ND<1	ND<1	ND<1	ND<1	-	10000**
Styrene	ND<1	ND<1	ND<1	ND<1	ND<1	-	100
Bromoform	ND<2	ND<2	ND<2	ND<2	ND<2	-	-
IsoPropylbenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
Bromobenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
1,1,2,2-Tetrachloroethane	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
1,2,3-Trichloropropane	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	0.02
n-Propylbenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
2-Chlorotoluene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
4-Chlorotoluene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
1,3,5-trimethylbenzene	ND<1	ND<1	ND<1	ND<1	ND<1	330	23*
tert-Butylbenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
1,2,4-trimethylbenzene	ND<1	ND<1	ND<1	ND<1	ND<1	470	23*
sec-Butylbenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
1,3-Dichlorobenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	600
p-Isopropyltoluene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
1,4-Dichlorobenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	75
1,2-Dichlorobenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	600
n-Butylbenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
1,2-Dibromo-3-chloropropane	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.2	-	0.2
1,2,4-Trichlorobenzene	ND<1	ND<1	ND<1	ND<1	ND<1	-	70
Hexachlorobutadiene	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-
Naphthalene	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4	0.5
1,2,3-Trichlorobenzene	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	0.9
Total Reported VOCs	ND	ND	ND	ND	11		

NOTES:

Groundwater Enforcement Standard from Vermont Groundwater Protection Rule
Groundwater Vapor Intrusion Standards from Vermont I-Rule
Reported results or reporting limits equal to or in excess of regulatory criteria are shaded.
Dashed Cell - no standard
* means total trimethylbenzenes ** means total xylenes

**Brownfields Phase II Environmental Site Assessment
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Wilmington, Vermont**



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<i>Groundwater Sample</i>	<i>MW-1</i>	<i>MW-2</i>	<i>MW-3</i>	<i>MW-4</i>	<i>Duplicate</i>	I-Rule Groundwater Vapor Intrusion Standard- Resident (ug/l)	Vermont Groundwater Enforcement Standard (ug/l)
<i>Depth to Groundwater (Ft)</i>	3.45	2.55	3.80	3.58	3.80		
<i>pH (standard units)</i>	6.11	5.84	6.04	6.07	6.04		
<i>Conductivity (umhos)</i>	1,488	96.8	244	597	244		
<i>Temperature (celcius)</i>	11.9	10.8	11.7	10.8	11.7		
<i>Turbidity (n.t.u.)</i>	27.4	0.88	37.4	25.9	37.4		
<i>Sample Date</i>	5/16/24	5/16/24	5/16/24	5/16/24	5/16/24		
RCRA Metals, EPA Method 6020a (mg/l)							
Total Arsenic	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	-	0.010
Total Barium	0.19	0.0069	0.023	0.038	0.022	-	2
Total Cadmium	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	-	0.005
Total Chromium	ND<0.001	ND<0.001	0.0013	0.0015	0.0012	-	0.100
Total Lead	0.0058	ND<0.001	ND<0.001	ND<0.001	ND<0.001	-	0.015
Total Mercury	ND<0.0001	ND<0.0001	ND<0.0001	ND<0.0001	ND<0.0001	2.0	0.002
Total Selenium	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	-	0.05
Total Silver	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	-	-

NOTES:

Groundwater Enforcement Standard from Vermont Groundwater Protection Rule

Groundwater Vapor Intrusion Standards from Vermont I-Rule

Reported results or reporting limits equal to or in excess of regulatory criteria are shaded.

Dashed Cell - no standard

Sub-Slab Vapor Assessment
211 Route 9 West
Wilmington, Vermont
Page 1 of 1



<i>Sample Identification</i>	<i>VP-1</i>	<i>VP-2</i>	<i>Ambient</i>	<i>I-Rule Sub Slab Soil Gas Residential VI Standard $\mu\text{g}/\text{m}^3$</i>	<i>I-Rule Sub Slab Soil Gas Non- Residential VI Standard $\mu\text{g}/\text{m}^3$</i>
<i>Sample Duration (hours)</i>	<i>2.0</i>	<i>2.0</i>	<i>2.0</i>		
<i>Max. PID Reading (ppm)</i>	<i>0.6</i>	<i>0.5</i>	<i>0.1</i>		
<i>Sample Date</i>	<i>2/27/24</i>	<i>2/27/24</i>	<i>2/27/24</i>		
Benzene	ND<0.32	ND<0.32	0.45	4.3	35
Carbon Tetrachloride	ND<0.63	ND<0.63	0.23	5.7	45
Chloroethane	ND<0.26	ND<0.26	ND<0.092	330,000	1,200,000
1,1-Dichloroethane	ND<0.40	ND<0.40	ND<0.14	21	170
1,1-Dichloroethylene	ND<0.40	ND<0.40	ND<0.14	6,700	23,000
Ethylbenzene	0.63	1.0	0.29	13	110
Methylene Chloride	ND<3.5	ND<3.5	ND<1.2	2,000	27,000
Naphthalene	ND<0.52	ND<0.52	ND<0.18	1.0	8.0
Tetrachloroethene	0.68	ND<0.68	ND<0.24	21	170
Trichloroethene	ND<0.54	ND<0.54	ND<0.19	6.7	23
1,2,4-Trimethylbenzene*	1.2	1.1	ND<0.17	2,000	7,000
1,3,5-Trimethylbenzene*	0.49	ND<0.49	ND<0.17		
Vinyl Chloride	ND<0.26	ND<0.26	ND<0.089	3.7	62

Notes: all concentrations in micrograms per cubic meter $\mu\text{g}/\text{m}^3$

Standards from Vermont DEC I-Rule Appendix A2, Vapor Intrusion Standards

Reporting limits in excess of DEC residential sub-slab soil gas standards are shaded

"*" means the standard pertains to the sum of TMB isomers

Concrete Floor Testing
211 Route 9 West
Wilmington, VT



Page 1 of 1

Sample ID Sample Date	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	Duplicate CS-2	TSCA Standard
2/27/24									
PCBs EPA Method 3540C and 8082A (mg/kg)									
Aroclor - 1016	ND<0.08	ND<0.08	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	ND<0.08	1.0
Aroclor - 1221	ND<0.08	ND<0.08	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	ND<0.08	
Aroclor - 1232	ND<0.08	ND<0.08	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	ND<0.08	
Aroclor - 1242	ND<0.08	ND<0.08	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	ND<0.08	
Aroclor - 1248	ND<0.08	0.21	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	0.26	
Aroclor - 1254	0.25	0.26	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	0.32	
Aroclor - 1260	ND<0.08	ND<0.08	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	ND<0.08	
Aroclor - 1262	ND<0.08	ND<0.08	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	ND<0.08	
Aroclor - 1268	ND<0.08	ND<0.08	ND<0.08	ND<0.07	ND<0.09	ND<0.07	ND<0.08	ND<0.08	
Total Reported PCBs	0.25	0.47	ND	ND	ND	ND	ND	0.58	

NOTES:

- (1) Detected analytes are indicated in Bold; Shaded cells values exceed relevant regulatory standards
- (2) TSCA standard of 1.0 ppm total PCB content

Angela Emerson
LE Environmental LLC
21 North Main Street #1
Waterbury, VT 05676



Laboratory Report for:

Eastern Analytical, Inc. ID: 278335
Client Identification: 211 Route 9 West | 23-225
Date Received: 5/10/2024

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

5.23.24
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Temperature upon receipt (°C): 0

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
278335.01	SB-8S	5/10/24	5/7/24 08:55	soil	86.0	Adheres to Sample Acceptance Policy
278335.02	SB-4S	5/10/24	5/7/24 09:15	soil	84.5	Adheres to Sample Acceptance Policy
278335.03	SB-4D	5/10/24	5/7/24 09:55	soil	92.1	Adheres to Sample Acceptance Policy
278335.04	SB-5S	5/10/24	5/7/24 11:00	soil	86.2	Adheres to Sample Acceptance Policy
278335.05	SB-3S	5/10/24	5/7/24 11:20	soil	86.6	Adheres to Sample Acceptance Policy
278335.06	SB-3D	5/10/24	5/7/24 11:30	soil	82.2	Adheres to Sample Acceptance Policy
278335.07	SB-2S	5/10/24	5/7/24 12:10	soil	88.8	Adheres to Sample Acceptance Policy
278335.08	SB-1S	5/10/24	5/7/24 12:50	soil	94.8	Adheres to Sample Acceptance Policy
278335.09	SB-7S	5/10/24	5/7/24 13:35	soil	93.9	Adheres to Sample Acceptance Policy
278335.1	SB-6S	5/10/24	5/7/24 13:50	soil	94.6	Adheres to Sample Acceptance Policy
278335.11	Duplicate	5/10/24	5/7/24 09:55	soil	91.2	Adheres to Sample Acceptance Policy
278335.12	Trip Blank	5/10/24	5/7/24 00:00	soil	100.0	Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-8S	SB-4S	SB-4D	SB-5S
Lab Sample ID:	278335.01	278335.02	278335.03	278335.04
Matrix:	soil	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	5/14/24	5/14/24	5/14/24	5/14/24
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.06	< 0.05	< 0.05
Acetone	< 2	< 2	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.06	< 0.05	< 0.05
Methylene chloride	< 0.1	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.06	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.06	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.06	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.06	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.6	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.06	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.6	< 0.5	< 0.5
Chloroform	< 0.05	< 0.06	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.06	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.06	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.06	< 0.05	< 0.05
Benzene	< 0.05	< 0.06	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.06	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.06	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.06	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.06	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.06	< 0.05	< 0.05
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.6	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.06	< 0.05	< 0.05
Toluene	< 0.05	< 0.06	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.06	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.06	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.06	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.06	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.06	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.06	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.06	< 0.05	< 0.05
Ethylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.06	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.06	< 0.05	< 0.05
Styrene	< 0.05	< 0.06	< 0.05	< 0.05
Bromoform	< 0.05	< 0.06	< 0.05	< 0.05



LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-8S	SB-4S	SB-4D	SB-5S
Lab Sample ID:	278335.01	278335.02	278335.03	278335.04
Matrix:	soil	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	5/14/24	5/14/24	5/14/24	5/14/24
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
IsoPropylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
Bromobenzene	< 0.05	< 0.06	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.06	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.06	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.06	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.06	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.06	< 0.05	< 0.05
1,2,3-Trimethylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.06	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.06	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.06	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.06	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.06	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.06	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.06	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.06	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	91 %R	91 %R	92 %R	93 %R
1,2-Dichlorobenzene-d4 (surr)	105 %R	105 %R	105 %R	105 %R
Toluene-d8 (surr)	93 %R	94 %R	94 %R	94 %R
1,2-Dichloroethane-d4 (surr)	104 %R	104 %R	104 %R	103 %R

The following analytes were assessed down to the listed concentrations, 1,2-Dibromo-3-Chloropropane (0.0053mg/kg), 1,2,3-Trichloropropane (0.00311mg/kg). Detectable analytes are reported as J flags and should be considered estimated values.

Carbon disulfide exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).



LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-3S	SB-3D	SB-2S	SB-1S
Lab Sample ID:	278335.05	278335.06	278335.07	278335.08
Matrix:	soil	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	5/14/24	5/14/24	5/14/24	5/14/24
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	3	1	1	1
Dichlorodifluoromethane	< 0.3	< 0.1	< 0.1	< 0.1
Chloromethane	< 0.3	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 0.05	< 0.02	< 0.02	< 0.02
Bromomethane	< 0.3	< 0.1	< 0.1	< 0.1
Chloroethane	< 0.3	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 0.3	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 0.1	< 0.05	< 0.05	< 0.05
Acetone	< 5	< 2	< 2	< 2
1,1-Dichloroethene	< 0.1	< 0.05	< 0.05	< 0.05
Methylene chloride	< 0.3	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 0.3	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.3	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.1	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	< 0.1	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	< 0.1	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.1	< 0.05	< 0.05	< 0.05
2-Butanone(MEK)	< 1	< 0.5	< 0.5	< 0.5
Bromochloromethane	< 0.1	< 0.05	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 1	< 0.5	< 0.5	< 0.5
Chloroform	< 0.1	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.1	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	< 0.1	< 0.05	< 0.05	< 0.05
1,1-Dichloropropene	< 0.1	< 0.05	< 0.05	< 0.05
Benzene	< 0.1	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	< 0.1	< 0.05	< 0.05	< 0.05
Trichloroethene	< 0.1	< 0.05	< 0.05	< 0.05
1,2-Dichloropropane	< 0.1	< 0.05	< 0.05	< 0.05
Dibromomethane	< 0.1	< 0.05	< 0.05	< 0.05
Bromodichloromethane	< 0.1	< 0.05	< 0.05	< 0.05
4-Methyl-2-pentanone(MIBK)	< 1	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.1	< 0.05	< 0.05	< 0.05
Toluene	< 0.1	< 0.05	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.1	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.1	< 0.05	< 0.05	< 0.05
2-Hexanone	< 0.3	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.1	< 0.05	< 0.05	< 0.05
1,3-Dichloropropane	< 0.1	< 0.05	< 0.05	< 0.05
Dibromochloromethane	< 0.1	< 0.05	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.05	< 0.02	< 0.02	< 0.02
Chlorobenzene	< 0.1	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.1	< 0.05	< 0.05	< 0.05
Ethylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
mp-Xylene	< 0.1	< 0.05	< 0.05	< 0.05
o-Xylene	< 0.1	< 0.05	< 0.05	< 0.05
Styrene	< 0.1	< 0.05	< 0.05	< 0.05
Bromoform	< 0.1	< 0.05	< 0.05	< 0.05



LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-3S	SB-3D	SB-2S	SB-1S
Lab Sample ID:	278335.05	278335.06	278335.07	278335.08
Matrix:	soil	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	5/14/24	5/14/24	5/14/24	5/14/24
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	3	1	1	1
IsoPropylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
Bromobenzene	< 0.1	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.1	< 0.05	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.1	< 0.05	< 0.05	< 0.05
n-Propylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
2-Chlorotoluene	< 0.1	< 0.05	< 0.05	< 0.05
4-Chlorotoluene	< 0.1	< 0.05	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
tert-Butylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
sec-Butylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.1	< 0.05	< 0.05	< 0.05
1,2,3-Trimethylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
p-Isopropyltoluene	< 0.1	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.1	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.1	< 0.05	< 0.05	< 0.05
n-Butylbenzene	< 0.1	< 0.05	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.1	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.1	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	< 0.1	< 0.05	< 0.05	< 0.05
Naphthalene	< 0.3	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.1	< 0.05	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	92 %R	91 %R	91 %R	91 %R
1,2-Dichlorobenzene-d4 (surr)	105 %R	106 %R	105 %R	106 %R
Toluene-d8 (surr)	94 %R	93 %R	93 %R	93 %R
1,2-Dichloroethane-d4 (surr)	104 %R	105 %R	105 %R	105 %R

SB-3D, SB-2S, SB-1S: The following analytes were assessed down to the listed concentrations, 1,2-Dibromo-3-Chloropropane (0.0053mg/kg), 1,2,3-Trichloropropane (0.00311mg/kg). Detectable analytes are reported as J flags and should be considered estimated values.

Carbon disulfide exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).

SB-3S: Sample(s) received with low methanol. Reporting limits elevated due to the addition of methanol required for sample analysis. Results should be used with due consideration.



LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-7S	SB-6S	Duplicate	Trip Blank
Lab Sample ID:	278335.09	278335.1	278335.11	278335.12
Matrix:	soil	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	5/14/24	5/14/24	5/14/24	5/14/24
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloromethane	< 0.1	< 0.1	< 0.1	< 0.1
Vinyl chloride	< 0.02	< 0.02	< 0.02	< 0.02
Bromomethane	< 0.1	< 0.1	< 0.1	< 0.1
Chloroethane	< 0.1	< 0.1	< 0.1	< 0.1
Trichlorofluoromethane	< 0.1	< 0.1	< 0.1	< 0.1
Diethyl Ether	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	< 2	< 2	< 2	< 2
1,1-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
Methylene chloride	< 0.1	< 0.1	< 0.1	< 0.1
Carbon disulfide	< 0.1	< 0.1	< 0.1	< 0.1
Methyl-t-butyl ether(MTBE)	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
2,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone(MEK)	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05
Tetrahydrofuran(THF)	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
Benzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
Dibromomethane	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	< 0.05	< 0.05	< 0.05	< 0.05
4-Methyl-2-pentanone(MIBK)	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,3-Dichloropropene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	< 0.05	< 0.05	< 0.05	< 0.05
2-Hexanone	< 0.1	< 0.1	< 0.1	< 0.1
Tetrachloroethene	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Chlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
mp-Xylene	< 0.05	< 0.05	< 0.05	< 0.05
o-Xylene	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	< 0.05	< 0.05	< 0.05	< 0.05



LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-7S	SB-6S	Duplicate	Trip Blank
Lab Sample ID:	278335.09	278335.1	278335.11	278335.12
Matrix:	soil	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Analysis:	5/14/24	5/14/24	5/14/24	5/14/24
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
IsoPropylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
Bromobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	< 0.05	< 0.05	< 0.05	< 0.05
1,2,3-Trichloropropane	< 0.05	< 0.05	< 0.05	< 0.05
n-Propylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorotoluene	< 0.05	< 0.05	< 0.05	< 0.05
1,3,5-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
tert-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
sec-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2,3-Trimethylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
p-Isopropyltoluene	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
n-Butylbenzene	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dibromo-3-chloropropane	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1,2,3-Trichlorobenzene	< 0.05	< 0.05	< 0.05	< 0.05
4-Bromofluorobenzene (surr)	93 %R	92 %R	91 %R	92 %R
1,2-Dichlorobenzene-d4 (surr)	106 %R	105 %R	106 %R	107 %R
Toluene-d8 (surr)	92 %R	93 %R	93 %R	94 %R
1,2-Dichloroethane-d4 (surr)	104 %R	104 %R	104 %R	104 %R

The following analytes were assessed down to the listed concentrations, 1,2-Dibromo-3-Chloropropane (0.0053mg/kg), 1,2,3-Trichloropropane (0.00311mg/kg). Detectable analytes are reported as J flags and should be considered estimated values.

Carbon disulfide exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).



QC REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Batch ID: 63851183398

Client Designation: 211 Route 9 West | 23-225

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 0.1	1.1 (108 %R)	1.1 (108 %R) (0 RPD)	5/13/2024	mg/kg	40 - 160	20	8260C
Chloromethane	< 0.1	0.91 (91 %R)	0.93 (93 %R) (2 RPD)	5/13/2024	mg/kg	40 - 160	20	8260C
Vinyl chloride	< 0.02	0.92 (92 %R)	0.94 (94 %R) (3 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Bromomethane	< 0.1	0.98 (98 %R)	0.99 (99 %R) (1 RPD)	5/13/2024	mg/kg	40 - 160	20	8260C
Chloroethane	< 0.1	0.94 (94 %R)	0.96 (96 %R) (2 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Trichlorofluoromethane	< 0.1	1.2 (118 %R)	1.2 (117 %R) (0 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Diethyl Ether	< 0.05	0.87 (87 %R)	0.88 (88 %R) (1 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Acetone	< 2	< 2 (90 %R)	< 2 (89 %R) (1 RPD)	5/13/2024	mg/kg	40 - 160	20	8260C
1,1-Dichloroethene	< 0.05	0.99 (99 %R)	1.0 (103 %R) (5 RPD)	5/13/2024	mg/kg	59 - 172	20	8260C
Methylene chloride	< 0.1	0.99 (99 %R)	1.0 (104 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Carbon disulfide	< 0.1	* 0.69 (69 %R)	0.73 (73 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 0.1	0.93 (93 %R)	0.90 (90 %R) (4 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 0.05	0.91 (91 %R)	0.97 (97 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,1-Dichloroethane	< 0.05	0.95 (95 %R)	0.99 (99 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
2,2-Dichloropropane	< 0.05	0.93 (93 %R)	0.97 (97 %R) (4 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 0.05	0.91 (91 %R)	0.96 (96 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
2-Butanone(MEK)	< 0.5	0.96 (96 %R)	0.95 (95 %R) (1 RPD)	5/13/2024	mg/kg	40 - 160	20	8260C
Bromochloromethane	< 0.05	0.98 (98 %R)	1.0 (103 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 0.5	0.86 (86 %R)	0.86 (86 %R) (1 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Chloroform	< 0.05	0.98 (98 %R)	1.0 (103 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,1,1-Trichloroethane	< 0.05	0.93 (93 %R)	0.98 (98 %R) (4 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Carbon tetrachloride	< 0.05	0.93 (93 %R)	0.97 (97 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,1-Dichloropropene	< 0.05	1.0 (102 %R)	1.1 (107 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Benzene	< 0.05	1.0 (100 %R)	1.1 (105 %R) (5 RPD)	5/13/2024	mg/kg	66 - 142	20	8260C
1,2-Dichloroethane	< 0.05	1.0 (102 %R)	0.95 (95 %R) (7 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Trichloroethene	< 0.05	0.96 (96 %R)	1.0 (101 %R) (5 RPD)	5/13/2024	mg/kg	62 - 137	20	8260C
1,2-Dichloropropane	< 0.05	0.94 (94 %R)	0.99 (99 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Dibromomethane	< 0.05	0.95 (95 %R)	1.0 (101 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Bromodichloromethane	< 0.05	0.78 (78 %R)	0.82 (82 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
4-Methyl-2-pentanone(MIBK)	< 0.5	0.90 (90 %R)	0.90 (90 %R) (0 RPD)	5/13/2024	mg/kg	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.05	0.80 (80 %R)	0.85 (85 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Toluene	< 0.05	0.97 (97 %R)	1.0 (103 %R) (6 RPD)	5/13/2024	mg/kg	59 - 139	20	8260C
trans-1,3-Dichloropropene	< 0.05	0.79 (79 %R)	0.85 (85 %R) (7 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,1,2-Trichloroethane	< 0.05	0.97 (97 %R)	1.0 (102 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
2-Hexanone	< 0.1	0.81 (81 %R)	0.82 (82 %R) (1 RPD)	5/13/2024	mg/kg	40 - 160	20	8260C
Tetrachloroethene	< 0.05	1.1 (107 %R)	1.1 (112 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,3-Dichloropropane	< 0.05	0.92 (92 %R)	0.97 (97 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Dibromochloromethane	< 0.05	0.74 (74 %R)	0.79 (79 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.02	0.94 (94 %R)	0.99 (99 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Chlorobenzene	< 0.05	1.0 (100 %R)	1.1 (106 %R) (6 RPD)	5/13/2024	mg/kg	60 - 133	20	8260C
1,1,1,2-Tetrachloroethane	< 0.05	0.88 (88 %R)	0.93 (93 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Ethylbenzene	< 0.05	0.98 (98 %R)	1.0 (104 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
mp-Xylene	< 0.05	2.0 (101 %R)	2.1 (107 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
o-Xylene	< 0.05	0.93 (93 %R)	0.99 (99 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Styrene	< 0.05	0.97 (97 %R)	1.0 (103 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Bromoform	< 0.05	0.77 (77 %R)	0.80 (80 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C



QC REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Batch ID: 63851183398

Client Designation: 211 Route 9 West | 23-225

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
IsoPropylbenzene	< 0.05	0.89 (89 %R)	0.95 (95 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Bromobenzene	< 0.05	0.90 (90 %R)	0.95 (95 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 0.05	0.99 (99 %R)	1.0 (104 %R) (4 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.05	0.93 (93 %R)	0.97 (97 %R) (4 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
n-Propylbenzene	< 0.05	0.93 (93 %R)	0.98 (98 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
2-Chlorotoluene	< 0.05	0.95 (95 %R)	0.99 (99 %R) (4 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
4-Chlorotoluene	< 0.05	0.95 (95 %R)	1.0 (101 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 0.05	0.90 (90 %R)	0.95 (95 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
tert-Butylbenzene	< 0.05	0.91 (91 %R)	0.96 (96 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 0.05	0.89 (89 %R)	0.94 (94 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
sec-Butylbenzene	< 0.05	1.0 (100 %R)	1.0 (105 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,3-Dichlorobenzene	< 0.05	1.0 (100 %R)	1.1 (105 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,2,3-Trimethylbenzene	< 0.05	0.90 (90 %R)	0.94 (94 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
p-Isopropyltoluene	< 0.05	0.96 (96 %R)	1.0 (101 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,4-Dichlorobenzene	< 0.05	1.0 (100 %R)	1.1 (105 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,2-Dichlorobenzene	< 0.05	0.99 (99 %R)	1.0 (104 %R) (5 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
n-Butylbenzene	< 0.05	0.99 (99 %R)	1.0 (105 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 0.05	0.74 (74 %R)	0.77 (77 %R) (4 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 0.05	0.96 (96 %R)	1.0 (102 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Hexachlorobutadiene	< 0.05	1.1 (105 %R)	1.1 (111 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
Naphthalene	< 0.1	0.90 (90 %R)	0.96 (96 %R) (6 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.05	1.0 (102 %R)	1.1 (109 %R) (7 RPD)	5/13/2024	mg/kg	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	94 %R	102 %R	102 %R	5/13/2024	% Rec	70 - 130		8260C
1,2-Dichlorobenzene-d4 (surr)	105 %R	99 %R	98 %R	5/13/2024	% Rec	70 - 130		8260C
Toluene-d8 (surr)	95 %R	95 %R	95 %R	5/13/2024	% Rec	70 - 130		8260C
1,2-Dichloroethane-d4 (surr)	101 %R	99 %R	98 %R	5/13/2024	% Rec	70 - 130		8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-8S
Lab Sample ID: 278335.01
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	5/14/24		
2-Methylnaphthalene	< 0.008	1	5/14/24		
1-Methylnaphthalene	< 0.008	1	5/14/24		
Acenaphthylene	< 0.008	1	5/14/24		
Acenaphthene	< 0.008	1	5/14/24		
Fluorene	< 0.008	1	5/14/24		
Phenanthrene	0.024	1	5/14/24		
Anthracene	< 0.008	1	5/14/24		
Fluoranthene	0.064	1	5/14/24		
Pyrene	0.056	1	5/14/24		
Benzo[a]anthracene	0.026	1	5/14/24	0.1	.0026
Chrysene	0.034	1	5/14/24	0.001	.000034
Benzo[b]fluoranthene	0.044	1	5/14/24	0.1	.0044
Benzo[k]fluoranthene	0.016	1	5/14/24	0.01	.00016
Benzo[a]pyrene	0.032	1	5/14/24	1	.032
Indeno[1,2,3-cd]pyrene	0.024	1	5/14/24	0.1	.0024
Dibenz[a,h]anthracene	< 0.008	1	5/14/24	1	< .008
Benzo[g,h,i]perylene	0.027	1	5/14/24		
p-Terphenyl-D14 (surr)	63 %R		5/14/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-4S
Lab Sample ID: 278335.02
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	5/14/24		
2-Methylnaphthalene	0.0083	1	5/14/24		
1-Methylnaphthalene	< 0.008	1	5/14/24		
Acenaphthylene	< 0.008	1	5/14/24		
Acenaphthene	< 0.008	1	5/14/24		
Fluorene	< 0.008	1	5/14/24		
Phenanthrene	< 0.008	1	5/14/24		
Anthracene	< 0.008	1	5/14/24		
Fluoranthene	0.018	1	5/14/24		
Pyrene	0.016	1	5/14/24		
Benzo[a]anthracene	0.0095	1	5/14/24	0.1	.00095
Chrysene	0.0091	1	5/14/24	0.001	.0000091
Benzo[b]fluoranthene	0.012	1	5/14/24	0.1	.0012
Benzo[k]fluoranthene	< 0.008	1	5/14/24	0.01	< .00008
Benzo[a]pyrene	0.0087	1	5/14/24	1	.0087
Indeno[1,2,3-cd]pyrene	< 0.008	1	5/14/24	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	5/14/24	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	5/14/24		
p-Terphenyl-D14 (surr)	57 %R		5/14/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-4D
Lab Sample ID: 278335.03
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.007	1	5/14/24		
2-Methylnaphthalene	< 0.007	1	5/14/24		
1-Methylnaphthalene	< 0.007	1	5/14/24		
Acenaphthylene	< 0.007	1	5/14/24		
Acenaphthene	< 0.007	1	5/14/24		
Fluorene	< 0.007	1	5/14/24		
Phenanthrene	< 0.007	1	5/14/24		
Anthracene	< 0.007	1	5/14/24		
Fluoranthene	< 0.007	1	5/14/24		
Pyrene	< 0.007	1	5/14/24		
Benzo[a]anthracene	< 0.007	1	5/14/24	0.1	< .0007
Chrysene	< 0.007	1	5/14/24	0.001	< .00000
Benzo[b]fluoranthene	< 0.007	1	5/14/24	0.1	< .0007
Benzo[k]fluoranthene	< 0.007	1	5/14/24	0.01	< .00007
Benzo[a]pyrene	< 0.007	1	5/14/24	1	< .007
Indeno[1,2,3-cd]pyrene	< 0.007	1	5/14/24	0.1	< .0007
Dibenz[a,h]anthracene	< 0.007	1	5/14/24	1	< .007
Benzo[g,h,i]perylene	< 0.007	1	5/14/24		
p-Terphenyl-D14 (surr)	64 %R		5/14/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-5S
Lab Sample ID: 278335.04
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	5/14/24		
2-Methylnaphthalene	< 0.008	1	5/14/24		
1-Methylnaphthalene	< 0.008	1	5/14/24		
Acenaphthylene	< 0.008	1	5/14/24		
Acenaphthene	< 0.008	1	5/14/24		
Fluorene	< 0.008	1	5/14/24		
Phenanthrene	< 0.008	1	5/14/24		
Anthracene	< 0.008	1	5/14/24		
Fluoranthene	0.010	1	5/14/24		
Pyrene	0.0086	1	5/14/24		
Benzo[a]anthracene	< 0.008	1	5/14/24	0.1	< .0008
Chrysene	< 0.008	1	5/14/24	0.001	< .00000
Benzo[b]fluoranthene	< 0.008	1	5/14/24	0.1	< .0008
Benzo[k]fluoranthene	< 0.008	1	5/14/24	0.01	< .00008
Benzo[a]pyrene	< 0.008	1	5/14/24	1	< .008
Indeno[1,2,3-cd]pyrene	< 0.008	1	5/14/24	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	5/14/24	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	5/14/24		
p-Terphenyl-D14 (surr)	58 %R		5/14/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-3S
Lab Sample ID: 278335.05
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	5/15/24		
2-Methylnaphthalene	< 0.008	1	5/15/24		
1-Methylnaphthalene	< 0.008	1	5/15/24		
Acenaphthylene	< 0.008	1	5/15/24		
Acenaphthene	< 0.008	1	5/15/24		
Fluorene	< 0.008	1	5/15/24		
Phenanthrene	< 0.008	1	5/15/24		
Anthracene	< 0.008	1	5/15/24		
Fluoranthene	< 0.008	1	5/15/24		
Pyrene	< 0.008	1	5/15/24		
Benzo[a]anthracene	< 0.008	1	5/15/24	0.1	< .0008
Chrysene	< 0.008	1	5/15/24	0.001	< .00000
Benzo[b]fluoranthene	< 0.008	1	5/15/24	0.1	< .0008
Benzo[k]fluoranthene	< 0.008	1	5/15/24	0.01	< .00008
Benzo[a]pyrene	< 0.008	1	5/15/24	1	< .008
Indeno[1,2,3-cd]pyrene	< 0.008	1	5/15/24	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	5/15/24	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	5/15/24		
p-Terphenyl-D14 (surr)	59 %R		5/15/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-3D
Lab Sample ID: 278335.06
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

Dilution

	Results	Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	5/15/24		
2-Methylnaphthalene	< 0.008	1	5/15/24		
1-Methylnaphthalene	< 0.008	1	5/15/24		
Acenaphthylene	< 0.008	1	5/15/24		
Acenaphthene	< 0.008	1	5/15/24		
Fluorene	< 0.008	1	5/15/24		
Phenanthrene	< 0.008	1	5/15/24		
Anthracene	< 0.008	1	5/15/24		
Fluoranthene	< 0.008	1	5/15/24		
Pyrene	< 0.008	1	5/15/24		
Benzo[a]anthracene	< 0.008	1	5/15/24	0.1	< .0008
Chrysene	< 0.008	1	5/15/24	0.001	< .00000
Benzo[b]fluoranthene	< 0.008	1	5/15/24	0.1	< .0008
Benzo[k]fluoranthene	< 0.008	1	5/15/24	0.01	< .00008
Benzo[a]pyrene	< 0.008	1	5/15/24	1	< .008
Indeno[1,2,3-cd]pyrene	< 0.008	1	5/15/24	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	5/15/24	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	5/15/24		
p-Terphenyl-D14 (surr)	66 %R		5/15/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-2S
Lab Sample ID: 278335.07
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	5/15/24		
2-Methylnaphthalene	< 0.008	1	5/15/24		
1-Methylnaphthalene	< 0.008	1	5/15/24		
Acenaphthylene	< 0.008	1	5/15/24		
Acenaphthene	< 0.008	1	5/15/24		
Fluorene	< 0.008	1	5/15/24		
Phenanthrene	< 0.008	1	5/15/24		
Anthracene	< 0.008	1	5/15/24		
Fluoranthene	0.026	1	5/15/24		
Pyrene	0.021	1	5/15/24		
Benzo[a]anthracene	0.012	1	5/15/24	0.1	.0012
Chrysene	0.014	1	5/15/24	0.001	.000014
Benzo[b]fluoranthene	0.020	1	5/15/24	0.1	.002
Benzo[k]fluoranthene	0.0081	1	5/15/24	0.01	.000081
Benzo[a]pyrene	0.013	1	5/15/24	1	.013
Indeno[1,2,3-cd]pyrene	0.012	1	5/15/24	0.1	.0012
Dibenz[a,h]anthracene	< 0.008	1	5/15/24	1	< .008
Benzo[g,h,i]perylene	0.013	1	5/15/24		
p-Terphenyl-D14 (surr)	60 %R		5/15/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-1S
Lab Sample ID: 278335.08
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

Dilution

	Results	Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.007	1	5/15/24		
2-Methylnaphthalene	< 0.007	1	5/15/24		
1-Methylnaphthalene	< 0.007	1	5/15/24		
Acenaphthylene	< 0.007	1	5/15/24		
Acenaphthene	< 0.007	1	5/15/24		
Fluorene	< 0.007	1	5/15/24		
Phenanthrene	< 0.007	1	5/15/24		
Anthracene	< 0.007	1	5/15/24		
Fluoranthene	< 0.007	1	5/15/24		
Pyrene	< 0.007	1	5/15/24		
Benzo[a]anthracene	< 0.007	1	5/15/24	0.1	< .0007
Chrysene	< 0.007	1	5/15/24	0.001	< .00000
Benzo[b]fluoranthene	< 0.007	1	5/15/24	0.1	< .0007
Benzo[k]fluoranthene	< 0.007	1	5/15/24	0.01	< .00007
Benzo[a]pyrene	< 0.007	1	5/15/24	1	< .007
Indeno[1,2,3-cd]pyrene	< 0.007	1	5/15/24	0.1	< .0007
Dibenz[a,h]anthracene	< 0.007	1	5/15/24	1	< .007
Benzo[g,h,i]perylene	< 0.007	1	5/15/24		
p-Terphenyl-D14 (surr)	56 %R		5/15/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-7S
Lab Sample ID: 278335.09
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.007	1	5/15/24		
2-Methylnaphthalene	< 0.007	1	5/15/24		
1-Methylnaphthalene	< 0.007	1	5/15/24		
Acenaphthylene	< 0.007	1	5/15/24		
Acenaphthene	< 0.007	1	5/15/24		
Fluorene	< 0.007	1	5/15/24		
Phenanthrene	0.0084	1	5/15/24		
Anthracene	< 0.007	1	5/15/24		
Fluoranthene	0.0089	1	5/15/24		
Pyrene	0.0080	1	5/15/24		
Benzo[a]anthracene	0.0082	1	5/15/24	0.1	.00082
Chrysene	< 0.007	1	5/15/24	0.001	< .00000
Benzo[b]fluoranthene	< 0.007	1	5/15/24	0.1	< .0007
Benzo[k]fluoranthene	< 0.007	1	5/15/24	0.01	< .00007
Benzo[a]pyrene	< 0.007	1	5/15/24	1	< .007
Indeno[1,2,3-cd]pyrene	< 0.007	1	5/15/24	0.1	< .0007
Dibenz[a,h]anthracene	< 0.007	1	5/15/24	1	< .007
Benzo[g,h,i]perylene	< 0.007	1	5/15/24		
p-Terphenyl-D14 (surr)	67 %R		5/15/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: SB-6S
Lab Sample ID: 278335.1
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

	Results	Dilution Factor	Date Analyzed	TEF	TEQ
Naphthalene	0.0082	1	5/15/24		
2-Methylnaphthalene	0.013	1	5/15/24		
1-Methylnaphthalene	< 0.007	1	5/15/24		
Acenaphthylene	0.022	1	5/15/24		
Acenaphthene	0.023	1	5/15/24		
Fluorene	0.040	1	5/15/24		
Phenanthrene	0.065	1	5/15/24		
Anthracene	0.059	1	5/15/24		
Fluoranthene	0.084	1	5/15/24		
Pyrene	0.078	1	5/15/24		
Benzo[a]anthracene	0.070	1	5/15/24	0.1	.007
Chrysene	0.073	1	5/15/24	0.001	.000073
Benzo[b]fluoranthene	0.071	1	5/15/24	0.1	.0071
Benzo[k]fluoranthene	0.066	1	5/15/24	0.01	.00066
Benzo[a]pyrene	0.066	1	5/15/24	1	.066
Indeno[1,2,3-cd]pyrene	0.054	1	5/15/24	0.1	.0054
Dibenz[a,h]anthracene	0.055	1	5/15/24	1	.055
Benzo[g,h,i]perylene	0.056	1	5/15/24		
p-Terphenyl-D14 (surr)	58 %R		5/15/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

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LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Client Sample ID: Duplicate
Lab Sample ID: 278335.11
Matrix: soil
Date Sampled: 5/7/24
Date Received: 5/10/24
Date Prepared: 5/14/24
Units: mg/kg
Method: 8270E
Analyst: JMR

Dilution

	Results	Factor	Date Analyzed	TEF	TEQ
Naphthalene	< 0.008	1	5/15/24		
2-Methylnaphthalene	< 0.008	1	5/15/24		
1-Methylnaphthalene	< 0.008	1	5/15/24		
Acenaphthylene	< 0.008	1	5/15/24		
Acenaphthene	< 0.008	1	5/15/24		
Fluorene	< 0.008	1	5/15/24		
Phenanthrene	< 0.008	1	5/15/24		
Anthracene	< 0.008	1	5/15/24		
Fluoranthene	< 0.008	1	5/15/24		
Pyrene	< 0.008	1	5/15/24		
Benzo[a]anthracene	< 0.008	1	5/15/24	0.1	< .0008
Chrysene	< 0.008	1	5/15/24	0.001	< .00000
Benzo[b]fluoranthene	< 0.008	1	5/15/24	0.1	< .0008
Benzo[k]fluoranthene	< 0.008	1	5/15/24	0.01	< .00008
Benzo[a]pyrene	< 0.008	1	5/15/24	1	< .008
Indeno[1,2,3-cd]pyrene	< 0.008	1	5/15/24	0.1	< .0008
Dibenz[a,h]anthracene	< 0.008	1	5/15/24	1	< .008
Benzo[g,h,i]perylene	< 0.008	1	5/15/24		
p-Terphenyl-D14 (surr)	51 %R		5/15/24		

TEF: Toxicity Equivalent Factor

TEQ: Toxicity Equivalence to Benzo[a]pyrene

The TEF factors set forth in this report are taken from the following EPA document: "Mid- Atlantic Risk Assessment User's Guide: November 2013". This guidance document sets forth a recommended, but not mandatory approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. This document contains the most current TEF values per VT IROCP.



QC REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Batch ID: 638512-73017/S051424PAH1

Client Designation: 211 Route 9 West | 23-225

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Naphthalene	< 0.007	1.1 (65 %R)	1.2 (69 %R) (7 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
2-Methylnaphthalene	< 0.007	1.0 (61 %R)	1.1 (66 %R) (8 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
1-Methylnaphthalene	< 0.007	1.1 (67 %R)	1.2 (73 %R) (8 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Acenaphthylene	< 0.007	1.1 (66 %R)	1.2 (73 %R) (9 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Acenaphthene	< 0.007	1.1 (69 %R)	1.3 (75 %R) (9 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Fluorene	< 0.007	1.2 (70 %R)	1.2 (75 %R) (7 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Phenanthrene	< 0.007	1.1 (69 %R)	1.2 (72 %R) (5 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Anthracene	< 0.007	1.2 (69 %R)	1.2 (72 %R) (4 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Fluoranthene	< 0.007	1.1 (69 %R)	1.2 (71 %R) (3 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Pyrene	< 0.007	1.2 (69 %R)	1.2 (72 %R) (4 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Benzo[a]anthracene	< 0.007	1.0 (63 %R)	1.1 (65 %R) (4 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Chrysene	< 0.007	1.1 (68 %R)	1.2 (71 %R) (4 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Benzo[b]fluoranthene	< 0.007	1.1 (68 %R)	1.2 (73 %R) (7 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Benzo[k]fluoranthene	< 0.007	1.2 (71 %R)	1.2 (73 %R) (3 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Benzo[a]pyrene	< 0.007	1.1 (66 %R)	1.2 (69 %R) (5 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Indeno[1,2,3-cd]pyrene	< 0.007	1.0 (60 %R)	1.0 (63 %R) (4 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Dibenz[a,h]anthracene	< 0.007	1.1 (67 %R)	1.2 (70 %R) (5 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
Benzo[g,h,i]perylene	< 0.007	1.1 (67 %R)	1.2 (70 %R) (5 RPD)	5/14/2024	mg/kg	40 - 140	30	8270E
p-Terphenyl-D14 (surr)	61 %R	68 %R	72 %R	5/14/2024	mg/kg	30 - 130		8270E

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

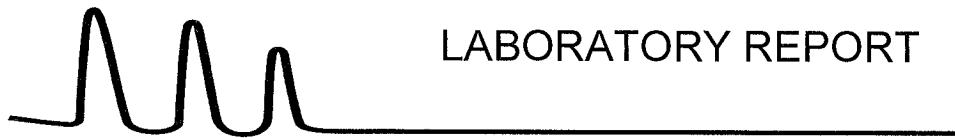
EAI ID#: **278335**

Client: **LE Environmental LLC**

Client Designation: **211 Route 9 West | 23-225**

Sample ID:	SB-8S	SB-4S	SB-4D	SB-5S
Lab Sample ID:	278335.01	278335.02	278335.03	278335.04
Matrix:	soil	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24
% Solid:	86	84.5	92.1	86.2
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	5/14/24	5/14/24	5/14/24	5/14/24
Date of Analysis:	5/15/24	5/15/24	5/15/24	5/15/24
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A
Dilution Factor:	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	83 %R	77 %R	86 %R	68 %R
DCB (surr)	67 %R	70 %R	84 %R	67 %R

Acid clean-up was performed on the sample and associated batch QC.



LABORATORY REPORT

EAI ID#: **278335**

Client: **LE Environmental LLC**

Client Designation: **211 Route 9 West | 23-225**

Sample ID:	SB-3S	SB-3D	SB-2S	SB-1S
Lab Sample ID:	278335.05	278335.06	278335.07	278335.08
Matrix:	soil	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24
% Solid:	86.6	82.2	88.8	94.8
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	5/14/24	5/14/24	5/14/24	5/14/24
Date of Analysis:	5/15/24	5/15/24	5/15/24	5/15/24
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A
Dilution Factor:	1	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02	< 0.02
TMX (surr)	80 %R	83 %R	88 %R	94 %R
DCB (surr)	77 %R	84 %R	85 %R	99 %R

Acid clean-up was performed on the sample and associated batch QC.



LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-7S	SB-6S	Duplicate
Lab Sample ID:	278335.09	278335.1	278335.11
Matrix:	soil	soil	soil
Date Sampled:	5/7/24	5/7/24	5/7/24
Date Received:	5/10/24	5/10/24	5/10/24
% Solid:	93.9	94.6	91.2
Units:	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	5/14/24	5/14/24	5/14/24
Date of Analysis:	5/15/24	5/15/24	5/15/24
Analyst:	MB	MB	MB
Extraction Method:	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A
Dilution Factor:	1	1	1
PCB-1016	< 0.02	< 0.02	< 0.02
PCB-1221	< 0.02	< 0.02	< 0.02
PCB-1232	< 0.02	< 0.02	< 0.02
PCB-1242	< 0.02	< 0.02	< 0.02
PCB-1248	< 0.02	< 0.02	< 0.02
PCB-1254	< 0.02	< 0.02	< 0.02
PCB-1260	< 0.02	< 0.02	< 0.02
PCB-1262	< 0.02	< 0.02	< 0.02
PCB-1268	< 0.02	< 0.02	< 0.02
TMX (surr)	87 %R	86 %R	90 %R
DCB (surr)	87 %R	72 %R	82 %R

Acid clean-up was performed on the sample and associated batch QC.



QC REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Batch ID: 638512-81591/S051424PCB1

Client Designation: 211 Route 9 West | 23-225

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.11 (81 %R)	0.11 (85 %R) (6 RPD)	5/15/2024	mg/kg	40 - 140	30	8082A
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	5/15/2024	mg/kg			8082A
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	5/15/2024	mg/kg			8082A
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	5/15/2024	mg/kg			8082A
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	5/15/2024	mg/kg			8082A
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	5/15/2024	mg/kg			8082A
PCB-1260	< 0.02	0.10 (78 %R)	0.11 (82 %R) (5 RPD)	5/15/2024	mg/kg	40 - 140	30	8082A
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	5/15/2024	mg/kg			8082A
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	5/15/2024	mg/kg			8082A
TMX (surr)	87 %R	84 %R	86 %R	5/15/2024	% Rec	30 - 150	30	8082A
DCB (surr)	89 %R	79 %R	87 %R	5/15/2024	% Rec	30 - 150	30	8082A

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

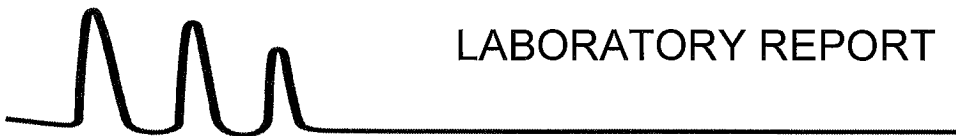
EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-8S	SB-4S	SB-4D	SB-5S					
Lab Sample ID:	278335.01	278335.02	278335.03	278335.04					
Matrix:	soil	soil	soil	soil					
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24					
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Arsenic	1.9	1.8	1.8	3.0	SolTotDry	mg/kg	5/14/24	6020A	DS
Barium	20	17	19	48	SolTotDry	mg/kg	5/14/24	6020A	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS
Chromium	8.1	7.1	5.6	10	SolTotDry	mg/kg	5/14/24	6020A	DS
Lead	9.1	5.5	3.7	9.8	SolTotDry	mg/kg	5/14/24	6020A	DS
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	5/14/24	6020A	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS

Sample ID:	SB-3S	SB-3D	SB-2S	SB-1S					
Lab Sample ID:	278335.05	278335.06	278335.07	278335.08					
Matrix:	soil	soil	soil	soil					
Date Sampled:	5/7/24	5/7/24	5/7/24	5/7/24					
Date Received:	5/10/24	5/10/24	5/10/24	5/10/24	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Arsenic	1.9	0.94	2.4	2.0	SolTotDry	mg/kg	5/14/24	6020A	DS
Barium	22	20	23	15	SolTotDry	mg/kg	5/14/24	6020A	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS
Chromium	7.7	3.2	6.5	6.0	SolTotDry	mg/kg	5/14/24	6020A	DS
Lead	4.8	1.5	3.9	2.4	SolTotDry	mg/kg	5/14/24	6020A	DS
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	5/14/24	6020A	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS



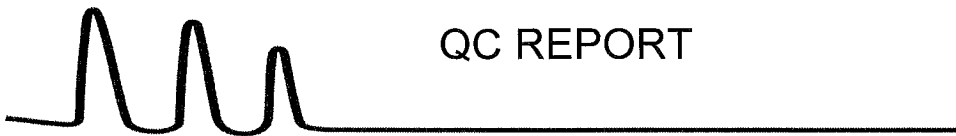
LABORATORY REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	SB-7S	SB-6S	Duplicate					
Lab Sample ID:	278335.09	278335.1	278335.11					
Matrix:	soil	soil	soil					
Date Sampled:	5/7/24	5/7/24	5/7/24	Analytical		Date of		
Date Received:	5/10/24	5/10/24	5/10/24	Matrix	Units	Analysis	Method	Analyst
Arsenic	3.4	3.1	2.3	SolTotDry	mg/kg	5/14/24	6020A	DS
Barium	29	14	25	SolTotDry	mg/kg	5/14/24	6020A	DS
Cadmium	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS
Chromium	6.5	5.8	7.1	SolTotDry	mg/kg	5/14/24	6020A	DS
Lead	3.7	3.7	4.5	SolTotDry	mg/kg	5/14/24	6020A	DS
Mercury	< 0.1	< 0.1	< 0.1	SolTotDry	mg/kg	5/14/24	6020A	DS
Selenium	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS
Silver	< 0.5	< 0.5	< 0.5	SolTotDry	mg/kg	5/14/24	6020A	DS



QC REPORT

EAI ID#: 278335

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Arsenic	< 0.5	40 (99 %R)	NA	mg/kg	5/14/24	80 - 120	20	6020A
Barium	< 0.5	40 (100 %R)	NA	mg/kg	5/14/24	80 - 120	20	6020A
Cadmium	< 0.5	40 (101 %R)	NA	mg/kg	5/14/24	80 - 120	20	6020A
Chromium	< 0.5	40 (98 %R)	NA	mg/kg	5/14/24	80 - 120	20	6020A
Lead	< 0.5	39 (97 %R)	NA	mg/kg	5/14/24	80 - 120	20	6020A
Mercury	< 0.1	0.41 (102 %R)	NA	mg/kg	5/14/24	80 - 120	20	6020A
Selenium	< 0.5	41 (101 %R)	NA	mg/kg	5/14/24	80 - 120	20	6020A
Silver	< 0.5	39 (96 %R)	NA	mg/kg	5/14/24	80 - 120	20	6020A

*(! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

CHANGE HISTORY RECORD

**BOLD FIELDS REQUIRED
PLEASE CIRCLE REQUESTED ANALYSIS**

[illegible]

Page 30 of 31

PROJECT MANAGER: Angela Emerson
COMPANY: LE Environmental LLC
ADDRESS: 81 N Main St, Unit # 1
CITY: Watersbury STATE: VT ZIP: 05676
PHONE: 802-917-2001 EXT.: _____
E-MAIL: angela@leenv.net
SITE NAME: 211 Route 9 West
PROJECT #: 23-225
STATE: NH MA ME VT OTHER: _____
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR
GWP, OIL FUND, BROWNFIELD OR OTHER: _____
QUOTE #: _____ P0 #: _____

QA/QC REPORTING

TURN AROUND TIME

24hr* 48hr*

3-4 Days*

5 Day 7 Day

10 Day

*Pre-approval Required

REPORTING OPTIONS

PRELIM: YES OR NO

PDF EXCEL

ELECTRONIC OPTIONS

MA MCP

A B C

TEMP. _____ °C

ICE? YES NO

SAMPLE(S):	Angela Emerson				5-10-24
RELINQUISHED BY:	Angela Emerson	DATE:	5/10/24	TIME:	8:00 PM
RECEIVED BY:	NJH	RECEIVED BY:		RECEIVED BY:	
RELINQUISHED BY:	BORAN	DATE:	5-10-24	TIME:	1:00 PM
RECEIVED BY:		RECEIVED BY:		RECEIVED BY:	

FIELD READINGS:

SUSPECTED CONTAMINATION: _____

SITE HISTORY: _____

OTHER METALS: _____

METALS: 8 RCRA 13 PP FE, MN PB, CU

SAMPLES FIELD FILTERED? ☐ YES ☐ NO

NOTES: (IE SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)



Eastern Analytical, Inc.

51 Antrim Avenue

ACCORD. NH 03301

TEL: 603.228.0525 | 1.800.287.0525

E-MAIL: CUSTOMERSERVICE@EASTERNANALYTICAL.COM

www.EASTERNANALYTICAL.COM

professional laboratory and drilling services

(WHITE: Lab Copy

GREEN: Customer Copy)

CHAIN-OF-CUSTODY RECORD

BOLD FIELDS REQUIRED. PLEASE CIRCLE REQUESTED ANALYSIS.

For Use Only

278335

SAMPLE I.D.	SAMPLING DATE/TIME *IF COMPOSITE, INDICATE BOTH START & FINISH DATE/TIME	MATRIX (SEE BELOW)	GRAB/*COMPOSITE	VOC		SVOC		TCMP		INORGANICS		MICRO		METALS		OTHER	# of CONTAINERS	NOTES MOH VAL #
				524.2 524.2 MTBE ONLY 8260 1, 4 DIOXANE	8021	8015 GRO 8270 ABN	MAVPH 625 PAH	EDB DBCP	8015 DRO MAEPH	PEST 608 PEST 8081	PCB 408 PCB 8082	OIL & GREASE 1664	TPH 1664	TCMP VOC BOD TS TKN pH SPEC. COD	INORGANICS ABN PEST CBOD TSS CI NO ₂ NH ₃ O. PHOS. T. RES. CHLORINE CON. PHENOLS			
Duplicate	6/1/24, 0955	S	G	X		X		X									3	62167

MATRIX: A-AIR; S-SOIL; GW-GROUND WATER; SW-SURFACE WATER; DW-DRINKING WATER;
WW-WASTE WATER
PRESERVATIVE: H-HCL; N-HNO₃; S-H₂SO₄; Na-NaOH; M-MEON

PROJECT MANAGER: Angela Emerson
COMPANY: LE Environmental LLC
ADDRESS: 21N Main St, Unit #1
CITY: Waterbury STATE: VT ZIP: 05676
PHONE: 802-919-2021 EXT: _____
E-MAIL: Angela@leenvt.net
SITE NAME: 211 Route 9 West
PROJECT #: 23-225
STATE: NH MA ME VT OTHER: _____
REGULATORY PROGRAM: NPDES: RGP POTW STORMWATER OR
GWP, OIL FUND, BROWNFIELD OR OTHER: _____
QUOTE #: _____ PO #: _____

QA/QC REPORTING A B C MA MCP	REPORTING OPTIONS PHONE: YES ☒ NO ELECTRONIC OPTIONS PDR ☒ EXCEL EQUIS OTHER _____	TURN AROUND TIME 24hr* 48hr* 3-4 Days* 5 Day 7 Day 10 Day *Pre-approval Required
------------------------------------	---	---

SAMPLES: Angela Emerson
Unlabeled 5/10/24 6004 502
RELINQUISHED BY: DATE: 5-10-24 TIME: 1240
RELINQUISHED BY: DATE: 1240 TIME: 1240
RECEIVED BY: NSA

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____

METALS: 8 RCRA 13 PP FE, MN PB, CU
OTHER METALS: _____
SAMPLES FIELD FILTERED? ☐ YES ☐ NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO, IF DIFFERENT)

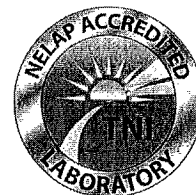
SITE HISTORY: _____
SUSPECTED CONTAMINATION: _____
FIELD READINGS: _____



Eastern Analytical, Inc.

professional laboratory and drilling services

Angela Emerson
LE Environmental LLC
21 North Main Street #1
Waterbury, VT 05676



Laboratory Report for:

Eastern Analytical, Inc. ID: 278783
Client Identification: 211 Route 9 West | 23-225
Date Received: 5/17/2024

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

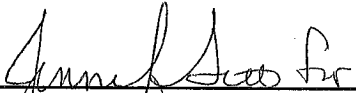
References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

5-23-24
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 278783

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Temperature upon receipt (°C): 2.4

Acceptable temperature range (°C): 0-6

Received on ice or cold packs (Yes/No): Y

Lab ID	Sample ID	Date Received	Date/Time Sampled		Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
278783.01	MW-1	5/17/24	5/16/24	10:25	aqueous		Adheres to Sample Acceptance Policy
278783.02	MW-2	5/17/24	5/16/24	11:05	aqueous		Adheres to Sample Acceptance Policy
278783.03	MW-3	5/17/24	5/16/24	12:25	aqueous		Adheres to Sample Acceptance Policy
278783.04	Duplicate	5/17/24	5/16/24	12:25	aqueous		Adheres to Sample Acceptance Policy
278783.05	MW-4	5/17/24	5/16/24	13:25	aqueous		Adheres to Sample Acceptance Policy
278783.06	Trip Blank	5/17/24	4/12/24	10:00	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 278783

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	MW-1	MW-2	MW-3	Duplicate
Lab Sample ID:	278783.01	278783.02	278783.03	278783.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	5/16/24	5/16/24	5/16/24	5/16/24
Date Received:	5/17/24	5/17/24	5/17/24	5/17/24
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	5/17/24	5/17/24	5/17/24	5/17/24
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	11
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2



LABORATORY REPORT

EAI ID#: 278783

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	MW-1	MW-2	MW-3	Duplicate
Lab Sample ID:	278783.01	278783.02	278783.03	278783.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	5/16/24	5/16/24	5/16/24	5/16/24
Date Received:	5/17/24	5/17/24	5/17/24	5/17/24
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	5/17/24	5/17/24	5/17/24	5/17/24
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,3-Trimethylbenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 0.2	< 0.2	< 0.2	< 0.2
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 0.5	< 0.5	< 0.5	< 0.5
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	85 %R	85 %R	85 %R	86 %R
1,2-Dichlorobenzene-d4 (surr)	110 %R	108 %R	110 %R	109 %R
Toluene-d8 (surr)	94 %R	94 %R	94 %R	94 %R
1,2-Dichloroethane-d4 (surr)	104 %R	105 %R	106 %R	105 %R

The following analytes were assessed down to the listed concentrations, 1,2-dibromoethane(EDB) (0.05ug/L), 1,2,3-Trichloropropane (0.02ug/L). Detectable analytes are reported as J flags and should be considered estimated values.



LABORATORY REPORT

EAI ID#: 278783

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID: MW-4 Trip Blank

Lab Sample ID:	278783.05	278783.06
Matrix:	aqueous	aqueous
Date Sampled:	5/16/24	4/12/24
Date Received:	5/17/24	5/17/24
Units:	ug/L	ug/L
Date of Analysis:	5/17/24	5/17/24
Analyst:	DGM	DGM
Method:	8260C	8260C
Dilution Factor:	1	1

Dichlorodifluoromethane	< 2	< 2
Chloromethane	< 2	< 2
Vinyl chloride	< 1	< 1
Bromomethane	< 2	< 2
Chloroethane	< 2	< 2
Trichlorofluoromethane	< 2	< 2
Diethyl Ether	< 2	< 2
Acetone	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5
Methylene chloride	< 1	< 1
Carbon disulfide	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1
trans-1,2-Dichloroethene	< 1	< 1
1,1-Dichloroethane	< 1	< 1
2,2-Dichloropropane	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1
Carbon tetrachloride	< 1	< 1
1,1-Dichloropropene	< 1	< 1
Benzene	< 1	< 1
1,2-Dichloroethane	< 1	< 1
Trichloroethene	< 1	< 1
1,2-Dichloropropane	< 1	< 1
Dibromomethane	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5
Toluene	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1
2-Hexanone	< 10	< 10
Tetrachloroethene	< 1	< 1
1,3-Dichloropropane	< 1	< 1
Dibromochloromethane	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5
Chlorobenzene	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1
Ethylbenzene	< 1	< 1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2



LABORATORY REPORT

EAI ID#: 278783

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	MW-4	Trip Blank
Lab Sample ID:	278783.05	278783.06
Matrix:	aqueous	aqueous
Date Sampled:	5/16/24	4/12/24
Date Received:	5/17/24	5/17/24
Units:	ug/L	ug/L
Date of Analysis:	5/17/24	5/17/24
Analyst:	DGM	DGM
Method:	8260C	8260C
Dilution Factor:	1	1
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 1	< 1
4-Chlorotoluene	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
1,2,3-Trimethylbenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 0.2	< 0.2
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5
Naphthalene	< 0.5	< 0.5
1,2,3-Trichlorobenzene	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	86 %R	85 %R
1,2-Dichlorobenzene-d4 (surr)	109 %R	109 %R
Toluene-d8 (surr)	94 %R	95 %R
1,2-Dichloroethane-d4 (surr)	105 %R	101 %R

The following analytes were assessed down to the listed concentrations, 1,2-dibromoethane(EDB) (0.05ug/L), 1,2,3-Trichloropropane (0.02ug/L). Detectable analytes are reported as J flags and should be considered estimated values.



QC REPORT

EAI ID#: 278783

Client: LE Environmental LLC

Batch ID: 638518-82672/A051724vT821

Client Designation: 211 Route 9 West | 23-225

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	25 (125 %R)	27 (135 %R) (7 RPD)	5/17/2024	ug/L	40 - 160	20	8260C
Chloromethane	< 2	20 (99 %R)	21 (106 %R) (6 RPD)	5/17/2024	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	18 (90 %R)	19 (97 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Bromomethane	< 2	20 (102 %R)	22 (108 %R) (5 RPD)	5/17/2024	ug/L	40 - 160	20	8260C
Chloroethane	< 2	19 (93 %R)	20 (101 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	21 (107 %R)	23 (115 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	17 (86 %R)	18 (90 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Acetone	< 10	17 (84 %R)	18 (90 %R) (7 RPD)	5/17/2024	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	18 (91 %R)	20 (98 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	19 (94 %R)	20 (100 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	15 (74 %R)	16 (80 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	18 (89 %R)	19 (93 %R) (4 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	20 (98 %R)	21 (105 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	20 (98 %R)	21 (104 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	16 (80 %R)	17 (85 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	18 (91 %R)	20 (98 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	21 (107 %R)	22 (110 %R) (3 RPD)	5/17/2024	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	20 (101 %R)	21 (106 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	18 (88 %R)	18 (92 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Chloroform	< 1	20 (99 %R)	21 (105 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	18 (90 %R)	19 (96 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	18 (92 %R)	20 (99 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	19 (95 %R)	21 (103 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Benzene	< 1	20 (101 %R)	22 (108 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	18 (89 %R)	21 (105 %R) (16 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	18 (90 %R)	19 (97 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	19 (97 %R)	21 (103 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	20 (99 %R)	21 (104 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	17 (85 %R)	18 (90 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	19 (93 %R)	20 (98 %R) (5 RPD)	5/17/2024	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	16 (81 %R)	17 (86 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Toluene	< 1	20 (98 %R)	21 (104 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	17 (83 %R)	18 (88 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	21 (104 %R)	22 (109 %R) (4 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	18 (88 %R)	19 (93 %R) (5 RPD)	5/17/2024	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	20 (102 %R)	22 (110 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	20 (98 %R)	20 (102 %R) (4 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	17 (86 %R)	18 (90 %R) (4 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	20 (100 %R)	21 (104 %R) (4 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	20 (100 %R)	21 (106 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	19 (93 %R)	20 (98 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Ethylbenzene	< 1	19 (95 %R)	20 (102 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	41 (101 %R)	43 (108 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
o-Xylene	< 1	18 (92 %R)	19 (97 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Styrene	< 1	20 (98 %R)	21 (104 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Bromoform	< 2	18 (91 %R)	19 (94 %R) (4 RPD)	5/17/2024	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 278783

Client: LE Environmental LLC

Batch ID: 638518-82672/A051724vVT821

Client Designation: 211 Route 9 West | 23-225

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
IsoPropylbenzene	< 1	17 (85 %R)	18 (91 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	19 (95 %R)	20 (102 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	22 (112 %R)	24 (118 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	20 (98 %R)	21 (103 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	19 (93 %R)	20 (101 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	20 (98 %R)	21 (105 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	20 (98 %R)	21 (106 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	18 (89 %R)	19 (96 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	18 (88 %R)	19 (95 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	18 (90 %R)	19 (97 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	20 (98 %R)	21 (106 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	20 (101 %R)	22 (108 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2,3-Trimethylbenzene	< 1	18 (90 %R)	19 (96 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	18 (92 %R)	20 (100 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	20 (99 %R)	21 (107 %R) (7 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	20 (98 %R)	21 (104 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	19 (95 %R)	21 (103 %R) (8 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 0.2	17 (86 %R)	18 (90 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	18 (90 %R)	19 (96 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	20 (98 %R)	21 (103 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
Naphthalene	< 0.5	18 (89 %R)	19 (94 %R) (5 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	20 (100 %R)	21 (106 %R) (6 RPD)	5/17/2024	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	84 %R	98 %R	97 %R	5/17/2024	% Rec	70 - 130		8260C
1,2-Dichlorobenzene-d4 (surr)	111 %R	98 %R	98 %R	5/17/2024	% Rec	70 - 130		8260C
Toluene-d8 (surr)	96 %R	98 %R	98 %R	5/17/2024	% Rec	70 - 130		8260C
1,2-Dichloroethane-d4 (surr)	104 %R	96 %R	97 %R	5/17/2024	% Rec	70 - 130		8260C

*I Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 278783

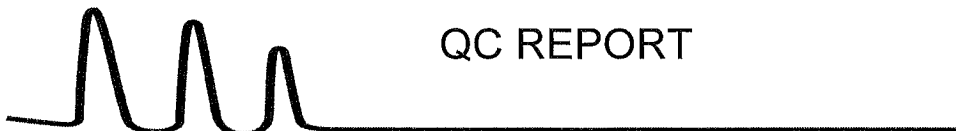
Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	MW-1	MW-2	MW-3	Duplicate					
Lab Sample ID:	278783.01	278783.02	278783.03	278783.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	5/16/24	5/16/24	5/16/24	5/16/24					
Date Received:	5/17/24	5/17/24	5/17/24	5/17/24	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqTot	mg/L	5/21/24	6020A	DS
Barium	0.19	0.0069	0.023	0.022	AqTot	mg/L	5/21/24	6020A	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	5/21/24	6020A	DS
Chromium	< 0.001	< 0.001	0.0013	0.0012	AqTot	mg/L	5/21/24	6020A	DS
Lead	0.0058	< 0.001	< 0.001	< 0.001	AqTot	mg/L	5/21/24	6020A	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	5/21/24	6020A	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	5/21/24	6020A	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	5/21/24	6020A	DS

Sample ID: MW-4

Lab Sample ID:	278783.05								
Matrix:	aqueous								
Date Sampled:	5/16/24								
Date Received:	5/17/24	Analytical Matrix	Units	Date of Analysis	Method	Analyst			
Arsenic	< 0.0005	AqTot	mg/L	5/21/24	6020A	DS			
Barium	0.038	AqTot	mg/L	5/21/24	6020A	DS			
Cadmium	< 0.001	AqTot	mg/L	5/21/24	6020A	DS			
Chromium	0.0015	AqTot	mg/L	5/21/24	6020A	DS			
Lead	< 0.001	AqTot	mg/L	5/21/24	6020A	DS			
Mercury	< 0.0001	AqTot	mg/L	5/21/24	6020A	DS			
Selenium	< 0.001	AqTot	mg/L	5/21/24	6020A	DS			
Silver	< 0.001	AqTot	mg/L	5/21/24	6020A	DS			



QC REPORT

EAI ID#: 278783

Client: **LE Environmental LLC**

Client Designation: **211 Route 9 West | 23-225**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Arsenic	< 0.0005	0.41 (103 %R)		NA	mg/L	5/21/24	80 - 120 20	6020A
Barium	< 0.001	0.42 (106 %R)		NA	mg/L	5/21/24	80 - 120 20	6020A
Cadmium	< 0.001	0.43 (108 %R)		NA	mg/L	5/21/24	80 - 120 20	6020A
Chromium	< 0.001	0.40 (100 %R)		NA	mg/L	5/21/24	80 - 120 20	6020A
Lead	< 0.001	0.40 (100 %R)		NA	mg/L	5/21/24	80 - 120 20	6020A
Mercury	< 0.0001	0.0011 (109 %R)		NA	mg/L	5/21/24	80 - 120 20	6020A
Selenium	< 0.001	0.41 (103 %R)		NA	mg/L	5/21/24	80 - 120 20	6020A
Silver	< 0.001	0.021 (106 %R)		NA	mg/L	5/21/24	80 - 120 20	6020A

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

March 13, 2024

Angela Emerson
LE Environmental
21 North Main Street #1
Waterbury, VT 05676

Project Location: Wilmington, VT
Client Job Number:
Project Number: 23-225
Laboratory Work Order Number: 24B3057

Enclosed are results of analyses for samples as received by the laboratory on February 28, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

LE Environmental
21 North Main Street #1
Waterbury, VT 05676
ATTN: Angela Emerson

REPORT DATE: 3/13/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 23-225

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24B3057

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Wilmington, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
VP-1	24B3057-01	Sub Slab		- EPA TO-15	
VP-2	24B3057-02	Sub Slab		- EPA TO-15	
Ambient	24B3057-03	Ambient Air		- EPA TO-15	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:**

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:**Acetone**24B3057-01[VP-1]

L-05

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:**Chloroform**24B3057-02[VP-2], B368310-BS1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Chloroform**

24B3057-02[VP-2], B368310-BS1, S101596-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington

Technical Representative

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ANALYTICAL RESULTS

Project Location: Wilmington, VT
 Date Received: 2/28/2024
Field Sample #: VP-1
Sample ID: 24B3057-01
 Sample Matrix: Sub Slab
 Sampled: 2/27/2024 13:56

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1042
 Canister Size: 6 liter
 Flow Controller ID: 4443
 Sample Type: 2 hr

Work Order: 24B3057
 Initial Vacuum(in Hg): 27
 Final Vacuum(in Hg): 4
 Receipt Vacuum(in Hg): -5.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	110	4.0	E	260	9.5	2	3/13/24 0:09	CMR	
Benzene	ND	0.10		ND	0.32	2	3/13/24 0:09	CMR	
Benzyl chloride	ND	0.10		ND	0.52	2	3/13/24 0:09	CMR	
Bromodichloromethane	ND	0.10		ND	0.67	2	3/13/24 0:09	CMR	
Bromoform	ND	0.10		ND	1.0	2	3/13/24 0:09	CMR	
Bromomethane	ND	0.10		ND	0.39	2	3/13/24 0:09	CMR	
1,3-Butadiene	ND	0.10		ND	0.22	2	3/13/24 0:09	CMR	
2-Butanone (MEK)	ND	4.0		ND	12	2	3/13/24 0:09	CMR	
Carbon Disulfide	ND	1.0		ND	3.1	2	3/13/24 0:09	CMR	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	3/13/24 0:09	CMR	
Chlorobenzene	ND	0.10		ND	0.46	2	3/13/24 0:09	CMR	
Chloroethane	ND	0.10		ND	0.26	2	3/13/24 0:09	CMR	
Chloroform	ND	0.10		ND	0.49	2	3/13/24 0:09	CMR	
Chloromethane	ND	0.20		ND	0.41	2	3/13/24 0:09	CMR	
Cyclohexane	ND	0.20		ND	0.69	2	3/13/24 0:09	CMR	
Dibromochloromethane	ND	0.10		ND	0.85	2	3/13/24 0:09	CMR	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	3/13/24 0:09	CMR	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	3/13/24 0:09	CMR	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	3/13/24 0:09	CMR	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	3/13/24 0:09	CMR	
Dichlorodifluoromethane (Freon 12)	0.51	0.10		2.5	0.49	2	3/13/24 0:09	CMR	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	3/13/24 0:09	CMR	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	3/13/24 0:09	CMR	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	3/13/24 0:09	CMR	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	3/13/24 0:09	CMR	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	3/13/24 0:09	CMR	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	3/13/24 0:09	CMR	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	3/13/24 0:09	CMR	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	3/13/24 0:09	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	3/13/24 0:09	CMR	
1,4-Dioxane	4.9	1.0		18	3.6	2	3/13/24 0:09	CMR	
Ethanol	59	4.0		110	7.5	2	3/13/24 0:09	CMR	
Ethyl Acetate	ND	1.0		ND	3.6	2	3/13/24 0:09	CMR	
Ethylbenzene	0.15	0.10		0.63	0.43	2	3/13/24 0:09	CMR	
4-Ethyltoluene	0.20	0.10		0.97	0.49	2	3/13/24 0:09	CMR	
Heptane	ND	0.10		ND	0.41	2	3/13/24 0:09	CMR	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	3/13/24 0:09	CMR	

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ANALYTICAL RESULTS

Project Location: Wilmington, VT
 Date Received: 2/28/2024
Field Sample #: VP-1
Sample ID: 24B3057-01
 Sample Matrix: Sub Slab
 Sampled: 2/27/2024 13:56

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1042
 Canister Size: 6 liter
 Flow Controller ID: 4443
 Sample Type: 2 hr

Work Order: 24B3057
 Initial Vacuum(in Hg): 27
 Final Vacuum(in Hg): 4
 Receipt Vacuum(in Hg): -5.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	3/13/24	0:09	CMR
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	3/13/24	0:09	CMR
Isopropanol	ND	4.0		ND	9.8	2	3/13/24	0:09	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	3/13/24	0:09	CMR
Methylene Chloride	ND	1.0		ND	3.5	2	3/13/24	0:09	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	3/13/24	0:09	CMR
Naphthalene	ND	0.10		ND	0.52	2	3/13/24	0:09	CMR
Propene	ND	4.0		ND	6.9	2	3/13/24	0:09	CMR
Styrene	2.0	0.10		8.5	0.43	2	3/13/24	0:09	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	3/13/24	0:09	CMR
Tetrachloroethylene	0.10	0.10		0.68	0.68	2	3/13/24	0:09	CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	3/13/24	0:09	CMR
Toluene	1.9	0.10		7.1	0.38	2	3/13/24	0:09	CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	3/13/24	0:09	CMR
1,1,1-Trichloroethane	4.2	0.10		23	0.55	2	3/13/24	0:09	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	3/13/24	0:09	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	3/13/24	0:09	CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	3/13/24	0:09	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	3/13/24	0:09	CMR
1,2,4-Trimethylbenzene	0.23	0.10		1.2	0.49	2	3/13/24	0:09	CMR
1,3,5-Trimethylbenzene	0.10	0.10		0.49	0.49	2	3/13/24	0:09	CMR
Vinyl Acetate	ND	2.0		ND	7.0	2	3/13/24	0:09	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	3/13/24	0:09	CMR
m&p-Xylene	0.48	0.20		2.1	0.87	2	3/13/24	0:09	CMR
o-Xylene	0.23	0.10		0.99	0.43	2	3/13/24	0:09	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	3/13/24 0:09

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ANALYTICAL RESULTS

 Project Location: Wilmington, VT
 Date Received: 2/28/2024
Field Sample #: VP-2
Sample ID: 24B3057-02
 Sample Matrix: Sub Slab
 Sampled: 2/27/2024 14:04

 Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2204
 Canister Size: 6 liter
 Flow Controller ID: 4444
 Sample Type: 2 hr

Work Order: 24B3057
 Initial Vacuum(in Hg): 28
 Final Vacuum(in Hg): 5
 Receipt Vacuum(in Hg): -6.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	45	4.0	L-05, V-06	110	9.5	2	3/12/24	23:39	CMR
Benzene	ND	0.10		ND	0.32	2	3/12/24	23:39	CMR
Benzyl chloride	ND	0.10		ND	0.52	2	3/12/24	23:39	CMR
Bromodichloromethane	ND	0.10		ND	0.67	2	3/12/24	23:39	CMR
Bromoform	ND	0.10		ND	1.0	2	3/12/24	23:39	CMR
Bromomethane	ND	0.10		ND	0.39	2	3/12/24	23:39	CMR
1,3-Butadiene	ND	0.10		ND	0.22	2	3/12/24	23:39	CMR
2-Butanone (MEK)	ND	4.0		ND	12	2	3/12/24	23:39	CMR
Carbon Disulfide	ND	1.0		ND	3.1	2	3/12/24	23:39	CMR
Carbon Tetrachloride	ND	0.10		ND	0.63	2	3/12/24	23:39	CMR
Chlorobenzene	ND	0.10		ND	0.46	2	3/12/24	23:39	CMR
Chloroethane	ND	0.10		ND	0.26	2	3/12/24	23:39	CMR
Chloroform	0.13	0.10		0.63	0.49	2	3/12/24	23:39	CMR
Chloromethane	0.46	0.20		0.94	0.41	2	3/12/24	23:39	CMR
Cyclohexane	ND	0.20		ND	0.69	2	3/12/24	23:39	CMR
Dibromochloromethane	ND	0.10		ND	0.85	2	3/12/24	23:39	CMR
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	3/12/24	23:39	CMR
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	3/12/24	23:39	CMR
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	3/12/24	23:39	CMR
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	3/12/24	23:39	CMR
Dichlorodifluoromethane (Freon 12)	1.3	0.10	6.2	0.49	2	3/12/24	23:39	CMR	
1,1-Dichloroethane	ND	0.10	ND	0.40	2	3/12/24	23:39	CMR	
1,2-Dichloroethane	ND	0.10	ND	0.40	2	3/12/24	23:39	CMR	
1,1-Dichloroethylene	ND	0.10	ND	0.40	2	3/12/24	23:39	CMR	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40	2	3/12/24	23:39	CMR	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40	2	3/12/24	23:39	CMR	
1,2-Dichloropropane	ND	0.10	ND	0.46	2	3/12/24	23:39	CMR	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45	2	3/12/24	23:39	CMR	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45	2	3/12/24	23:39	CMR	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70	2	3/12/24	23:39	CMR	
1,4-Dioxane	2.1	1.0	7.5	3.6	2	3/12/24	23:39	CMR	
Ethanol	22	4.0	41	7.5	2	3/12/24	23:39	CMR	
Ethyl Acetate	ND	1.0	ND	3.6	2	3/12/24	23:39	CMR	
Ethylbenzene	0.24	0.10	1.0	0.43	2	3/12/24	23:39	CMR	
4-Ethyltoluene	0.17	0.10	0.84	0.49	2	3/12/24	23:39	CMR	
Heptane	ND	0.10	ND	0.41	2	3/12/24	23:39	CMR	
Hexachlorobutadiene	ND	0.10	ND	1.1	2	3/12/24	23:39	CMR	

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ANALYTICAL RESULTS

Project Location: Wilmington, VT
 Date Received: 2/28/2024
Field Sample #: VP-2
Sample ID: 24B3057-02
 Sample Matrix: Sub Slab
 Sampled: 2/27/2024 14:04

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2204
 Canister Size: 6 liter
 Flow Controller ID: 4444
 Sample Type: 2 hr

Work Order: 24B3057
 Initial Vacuum(in Hg): 28
 Final Vacuum(in Hg): 5
 Receipt Vacuum(in Hg): -6.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	3/12/24	23:39	CMR
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	3/12/24	23:39	CMR
Isopropanol	ND	4.0		ND	9.8	2	3/12/24	23:39	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	3/12/24	23:39	CMR
Methylene Chloride	ND	1.0		ND	3.5	2	3/12/24	23:39	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	3/12/24	23:39	CMR
Naphthalene	ND	0.10		ND	0.52	2	3/12/24	23:39	CMR
Propene	ND	4.0		ND	6.9	2	3/12/24	23:39	CMR
Styrene	1.7	0.10		7.4	0.43	2	3/12/24	23:39	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	3/12/24	23:39	CMR
Tetrachloroethylene	ND	0.10		ND	0.68	2	3/12/24	23:39	CMR
Tetrahydrofuran	ND	1.0		ND	2.9	2	3/12/24	23:39	CMR
Toluene	1.9	0.10		7.0	0.38	2	3/12/24	23:39	CMR
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	3/12/24	23:39	CMR
1,1,1-Trichloroethane	0.50	0.10		2.7	0.55	2	3/12/24	23:39	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	3/12/24	23:39	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	3/12/24	23:39	CMR
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	3/12/24	23:39	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	3/12/24	23:39	CMR
1,2,4-Trimethylbenzene	0.22	0.10		1.1	0.49	2	3/12/24	23:39	CMR
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	3/12/24	23:39	CMR
Vinyl Acetate	ND	2.0		ND	7.0	2	3/12/24	23:39	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	3/12/24	23:39	CMR
m&p-Xylene	1.1	0.20		5.0	0.87	2	3/12/24	23:39	CMR
o-Xylene	0.50	0.10		2.2	0.43	2	3/12/24	23:39	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	3/12/24 23:39

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ANALYTICAL RESULTS

Project Location: Wilmington, VT
 Date Received: 2/28/2024
Field Sample #: Ambient
Sample ID: 24B3057-03
 Sample Matrix: Ambient Air
 Sampled: 2/27/2024 14:08

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2228
 Canister Size: 6 liter
 Flow Controller ID: 4639
 Sample Type: 2 hr

Work Order: 24B3057
 Initial Vacuum(in Hg): 29
 Final Vacuum(in Hg): 5
 Receipt Vacuum(in Hg): -4.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	7.9	1.4		19	3.3	0.698	3/12/24	23:09	CMR
Benzene	0.14	0.035		0.45	0.11	0.698	3/12/24	23:09	CMR
Benzyl chloride	ND	0.035		ND	0.18	0.698	3/12/24	23:09	CMR
Bromodichloromethane	ND	0.035		ND	0.23	0.698	3/12/24	23:09	CMR
Bromoform	ND	0.035		ND	0.36	0.698	3/12/24	23:09	CMR
Bromomethane	ND	0.035		ND	0.14	0.698	3/12/24	23:09	CMR
1,3-Butadiene	ND	0.035		ND	0.077	0.698	3/12/24	23:09	CMR
2-Butanone (MEK)	ND	1.4		ND	4.1	0.698	3/12/24	23:09	CMR
Carbon Disulfide	ND	0.35		ND	1.1	0.698	3/12/24	23:09	CMR
Carbon Tetrachloride	0.036	0.035		0.23	0.22	0.698	3/12/24	23:09	CMR
Chlorobenzene	ND	0.035		ND	0.16	0.698	3/12/24	23:09	CMR
Chloroethane	ND	0.035		ND	0.092	0.698	3/12/24	23:09	CMR
Chloroform	ND	0.035		ND	0.17	0.698	3/12/24	23:09	CMR
Chloromethane	0.46	0.070		0.96	0.14	0.698	3/12/24	23:09	CMR
Cyclohexane	ND	0.070		ND	0.24	0.698	3/12/24	23:09	CMR
Dibromochloromethane	ND	0.035		ND	0.30	0.698	3/12/24	23:09	CMR
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.698	3/12/24	23:09	CMR
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.698	3/12/24	23:09	CMR
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.698	3/12/24	23:09	CMR
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.698	3/12/24	23:09	CMR
Dichlorodifluoromethane (Freon 12)	0.48	0.035		2.4	0.17	0.698	3/12/24	23:09	CMR
1,1-Dichloroethane	ND	0.035		ND	0.14	0.698	3/12/24	23:09	CMR
1,2-Dichloroethane	ND	0.035		ND	0.14	0.698	3/12/24	23:09	CMR
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.698	3/12/24	23:09	CMR
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	3/12/24	23:09	CMR
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.698	3/12/24	23:09	CMR
1,2-Dichloropropane	ND	0.035		ND	0.16	0.698	3/12/24	23:09	CMR
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	3/12/24	23:09	CMR
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.698	3/12/24	23:09	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.24	0.698	3/12/24	23:09	CMR
1,4-Dioxane	ND	0.35		ND	1.3	0.698	3/12/24	23:09	CMR
Ethanol	7.2	1.4		14	2.6	0.698	3/12/24	23:09	CMR
Ethyl Acetate	0.81	0.35		2.9	1.3	0.698	3/12/24	23:09	CMR
Ethylbenzene	0.067	0.035		0.29	0.15	0.698	3/12/24	23:09	CMR
4-Ethyltoluene	ND	0.035		ND	0.17	0.698	3/12/24	23:09	CMR
Heptane	0.12	0.035		0.48	0.14	0.698	3/12/24	23:09	CMR
Hexachlorobutadiene	ND	0.035		ND	0.37	0.698	3/12/24	23:09	CMR

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ANALYTICAL RESULTS

Project Location: Wilmington, VT
 Date Received: 2/28/2024
Field Sample #: Ambient
Sample ID: 24B3057-03
 Sample Matrix: Ambient Air
 Sampled: 2/27/2024 14:08

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2228
 Canister Size: 6 liter
 Flow Controller ID: 4639
 Sample Type: 2 hr

Work Order: 24B3057
 Initial Vacuum(in Hg): 29
 Final Vacuum(in Hg): 5
 Receipt Vacuum(in Hg): -4.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	1.4		ND	4.9	0.698	3/12/24 23:09		CMR
2-Hexanone (MBK)	0.16	0.035		0.65	0.14	0.698	3/12/24 23:09		CMR
Isopropanol	ND	1.4		ND	3.4	0.698	3/12/24 23:09		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.698	3/12/24 23:09		CMR
Methylene Chloride	ND	0.35		ND	1.2	0.698	3/12/24 23:09		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.698	3/12/24 23:09		CMR
Naphthalene	ND	0.035		ND	0.18	0.698	3/12/24 23:09		CMR
Propene	ND	1.4		ND	2.4	0.698	3/12/24 23:09		CMR
Styrene	0.13	0.035		0.54	0.15	0.698	3/12/24 23:09		CMR
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.698	3/12/24 23:09		CMR
Tetrachloroethylene	ND	0.035		ND	0.24	0.698	3/12/24 23:09		CMR
Tetrahydrofuran	ND	0.35		ND	1.0	0.698	3/12/24 23:09		CMR
Toluene	0.15	0.035		0.57	0.13	0.698	3/12/24 23:09		CMR
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.698	3/12/24 23:09		CMR
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.698	3/12/24 23:09		CMR
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.698	3/12/24 23:09		CMR
Trichloroethylene	ND	0.035		ND	0.19	0.698	3/12/24 23:09		CMR
Trichlorofluoromethane (Freon 11)	0.21	0.14		1.2	0.78	0.698	3/12/24 23:09		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14		ND	1.1	0.698	3/12/24 23:09		CMR
1,2,4-Trimethylbenzene	ND	0.035		ND	0.17	0.698	3/12/24 23:09		CMR
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.698	3/12/24 23:09		CMR
Vinyl Acetate	ND	0.70		ND	2.5	0.698	3/12/24 23:09		CMR
Vinyl Chloride	ND	0.035		ND	0.089	0.698	3/12/24 23:09		CMR
m&p-Xylene	0.20	0.070		0.86	0.30	0.698	3/12/24 23:09		CMR
o-Xylene	0.074	0.035		0.32	0.15	0.698	3/12/24 23:09		CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.4	70-130	3/12/24 23:09

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Sample Extraction Data

Prep Method:TO-15 Prep

Analytical Method:EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
24B3057-01 [VP-1]	B368310	1.5	1	N/A	1000	200	150	03/12/24
24B3057-02 [VP-2]	B368310	1.5	1	N/A	1000	200	150	03/12/24
24B3057-03 [Ambient]	B368310	1.5	1	N/A	1000	200	430	03/12/24

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B368310 - TO-15 Prep

Blank (B368310-BLK1)					Prepared: 03/02/24 Analyzed: 03/12/24					
Acetone	ND	1.4								
Benzene	ND	0.034								
Benzyl chloride	ND	0.034								
Bromodichloromethane	ND	0.034								
Bromoform	ND	0.034								
Bromomethane	ND	0.034								
1,3-Butadiene	ND	0.034								
2-Butanone (MEK)	ND	1.4								
Carbon Disulfide	ND	0.34								
Carbon Tetrachloride	ND	0.034								
Chlorobenzene	ND	0.034								
Chloroethane	ND	0.034								
Chloroform	ND	0.034								
Chloromethane	ND	0.069								
Cyclohexane	ND	0.069								
Dibromochloromethane	ND	0.034								
1,2-Dibromoethane (EDB)	ND	0.034								
1,2-Dichlorobenzene	ND	0.034								
1,3-Dichlorobenzene	ND	0.034								
1,4-Dichlorobenzene	ND	0.034								
Dichlorodifluoromethane (Freon 12)	ND	0.034								
1,1-Dichloroethane	ND	0.034								
1,2-Dichloroethane	ND	0.034								
1,1-Dichloroethylene	ND	0.034								
cis-1,2-Dichloroethylene	ND	0.034								
trans-1,2-Dichloroethylene	ND	0.034								
1,2-Dichloropropane	ND	0.034								
cis-1,3-Dichloropropene	ND	0.034								
trans-1,3-Dichloropropene	ND	0.034								
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.034								
1,4-Dioxane	ND	0.34								
Ethanol	ND	1.4								
Ethyl Acetate	ND	0.34								
Ethylbenzene	ND	0.034								
4-Ethyltoluene	ND	0.034								
Heptane	ND	0.034								
Hexachlorobutadiene	ND	0.034								
Hexane	ND	1.4								
2-Hexanone (MBK)	ND	0.034								
Isopropanol	ND	1.4								
Methyl tert-Butyl Ether (MTBE)	ND	0.034								
Methylene Chloride	ND	0.34								
4-Methyl-2-pentanone (MIBK)	ND	0.034								
Naphthalene	ND	0.034								
Propene	ND	1.4								
Styrene	ND	0.034								

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit	

Batch B368310 - TO-15 Prep
Blank (B368310-BLK1)

Prepared: 03/02/24 Analyzed: 03/12/24

1,1,2,2-Tetrachloroethane	ND	0.034
Tetrachloroethylene	ND	0.034
Tetrahydrofuran	ND	0.34
Toluene	ND	0.034
1,2,4-Trichlorobenzene	ND	0.034
1,1,1-Trichloroethane	ND	0.034
1,1,2-Trichloroethane	ND	0.034
Trichloroethylene	ND	0.034
Trichlorofluoromethane (Freon 11)	ND	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14
1,2,4-Trimethylbenzene	ND	0.034
1,3,5-Trimethylbenzene	ND	0.034
Vinyl Acetate	ND	0.69
Vinyl Chloride	ND	0.034
m&p-Xylene	ND	0.069
o-Xylene	ND	0.034

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.80</i>	<i>8.00</i>	<i>97.4</i>	<i>70-130</i>
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LCS (B368310-BS1)

Prepared: 03/02/24 Analyzed: 03/12/24

Acetone	4.72	5.00	94.5	70-130
Benzene	4.70	5.00	94.1	70-130
Benzyl chloride	4.68	5.00	93.7	70-130
Bromodichloromethane	5.05	5.00	101	70-130
Bromoform	5.36	5.00	107	70-130
Bromomethane	4.46	5.00	89.2	70-130
1,3-Butadiene	5.32	5.00	106	70-130
2-Butanone (MEK)	3.92	5.00	78.5	70-130
Carbon Disulfide	4.62	5.00	92.3	70-130
Carbon Tetrachloride	5.29	5.00	106	70-130
Chlorobenzene	4.98	5.00	99.7	70-130
Chloroethane	4.64	5.00	92.7	70-130
Chloroform	6.63	5.00	133 *	70-130
Chloromethane	4.74	5.00	94.9	70-130
Cyclohexane	4.96	5.00	99.1	70-130
Dibromochloromethane	5.38	5.00	108	70-130
1,2-Dibromoethane (EDB)	4.95	5.00	99.0	70-130
1,2-Dichlorobenzene	5.12	5.00	102	70-130
1,3-Dichlorobenzene	5.32	5.00	106	70-130
1,4-Dichlorobenzene	4.73	5.00	94.6	70-130
Dichlorodifluoromethane (Freon 12)	4.81	5.00	96.2	70-130
1,1-Dichloroethane	4.75	5.00	94.9	70-130
1,2-Dichloroethane	4.83	5.00	96.5	70-130
1,1-Dichloroethylene	5.08	5.00	102	70-130
cis-1,2-Dichloroethylene	4.70	5.00	94.1	70-130
trans-1,2-Dichloroethylene	4.61	5.00	92.1	70-130
1,2-Dichloropropane	4.99	5.00	99.7	70-130

L-05, V-06

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B368310 - TO-15 Prep											
LCS (B368310-BS1)					Prepared: 03/02/24 Analyzed: 03/12/24						
cis-1,3-Dichloropropene	4.70				5.00		94.1	70-130			
trans-1,3-Dichloropropene	5.38				5.00		108	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.52				5.00		90.5	70-130			
1,4-Dioxane	5.28				5.00		106	70-130			
Ethanol	6.24				5.00		125	70-130			
Ethyl Acetate	3.96				5.00		79.3	70-130			
Ethylbenzene	4.87				5.00		97.5	70-130			
4-Ethyltoluene	5.12				5.00		102	70-130			
Heptane	5.09				5.00		102	70-130			
Hexachlorobutadiene	4.75				5.00		94.9	70-130			
Hexane	4.52				5.00		90.4	70-130			
2-Hexanone (MBK)	4.99				5.00		99.8	70-130			
Isopropanol	5.03				5.00		101	70-130			
Methyl tert-Butyl Ether (MTBE)	4.47				5.00		89.3	70-130			
Methylene Chloride	4.65				5.00		93.0	70-130			
4-Methyl-2-pentanone (MIBK)	5.28				5.00		106	70-130			
Naphthalene	4.72				5.00		94.5	70-130			
Propene	4.49				5.00		89.8	70-130			
Styrene	5.13				5.00		103	70-130			
1,1,2,2-Tetrachloroethane	4.93				5.00		98.5	70-130			
Tetrachloroethylene	4.97				5.00		99.5	70-130			
Tetrahydrofuran	4.67				5.00		93.3	70-130			
Toluene	5.04				5.00		101	70-130			
1,2,4-Trichlorobenzene	5.02				5.00		100	70-130			
1,1,1-Trichloroethane	4.80				5.00		96.1	70-130			
1,1,2-Trichloroethane	4.89				5.00		97.8	70-130			
Trichloroethylene	5.03				5.00		101	70-130			
Trichlorofluoromethane (Freon 11)	4.97				5.00		99.5	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.88				5.00		97.6	70-130			
1,2,4-Trimethylbenzene	4.75				5.00		95.1	70-130			
1,3,5-Trimethylbenzene	5.15				5.00		103	70-130			
Vinyl Acetate	3.80				5.00		76.1	70-130			
Vinyl Chloride	4.75				5.00		95.0	70-130			
m&p-Xylene	10.2				10.0		102	70-130			
o-Xylene	5.09				5.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.98				8.00		99.8	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S101394-ICV1)			Lab File ID: K24A037019.D			Analyzed: 02/07/24 00:09			
Bromochloromethane (1)	142760	2.896	140493	2.896	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	402711	3.527	389910	3.52	103	60 - 140	0.0070	+/-0.50	
Chlorobenzene-d5 (1)	376563	5.142	366115	5.142	103	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S101596-CCV1)			Lab File ID: K24A072003.D			Analyzed: 03/12/24 10:21			
Bromochloromethane (1)	119087	2.896				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	309868	3.527				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	287278	5.142				60 - 140		+/-0.50	
LCS (B368310-BS1)			Lab File ID: K24A072004.D			Analyzed: 03/12/24 10:51			
Bromochloromethane (1)	120167	2.904	119087	2.896	101	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	310311	3.527	309868	3.527	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	287169	5.142	287278	5.142	100	60 - 140	0.0000	+/-0.50	
Blank (B368310-BLK1)			Lab File ID: K24A072007.D			Analyzed: 03/12/24 12:26			
Bromochloromethane (1)	118770	2.896	119087	2.896	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	301145	3.527	309868	3.527	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	272335	5.142	287278	5.142	95	60 - 140	0.0000	+/-0.50	
Ambient (24B3057-03)			Lab File ID: K24A072026.D			Analyzed: 03/12/24 23:09			
Bromochloromethane (1)	116615	2.904	119087	2.896	98	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	285570	3.528	309868	3.527	92	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	272558	5.142	287278	5.142	95	60 - 140	0.0000	+/-0.50	
VP-2 (24B3057-02)			Lab File ID: K24A072027.D			Analyzed: 03/12/24 23:39			
Bromochloromethane (1)	110233	2.903	119087	2.896	93	60 - 140	0.0070	+/-0.50	
1,4-Difluorobenzene (1)	278860	3.527	309868	3.527	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	258883	5.142	287278	5.142	90	60 - 140	0.0000	+/-0.50	
VP-1 (24B3057-01)			Lab File ID: K24A072028.D			Analyzed: 03/13/24 00:09			
Bromochloromethane (1)	109905	2.896	119087	2.896	92	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	281482	3.527	309868	3.527	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	259036	5.142	287278	5.142	90	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S101596-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.09	0.9903157	1.008768		1.9	30
Benzene	A	5.00	5.22	0.5804471	0.6059767		4.4	30
Benzyl chloride	A	5.00	5.01	0.8012401	0.8035144		0.3	30
Bromodichloromethane	A	5.00	5.63	0.6035284	0.6792105		12.5	30
Bromoform	A	5.00	5.90	0.6206791	0.732063		17.9	30
Bromomethane	A	5.00	4.96	0.6013432	0.5963371		-0.8	30
1,3-Butadiene	A	5.00	5.48	0.5114432	0.475659		9.7	30
2-Butanone (MEK)	A	5.00	4.21	1.19898	1.010394		-15.7	30
Carbon Disulfide	A	5.00	4.79	1.547095	1.481122		-4.3	30
Carbon Tetrachloride	A	5.00	5.77	0.7460805	0.8616469		15.5	30
Chlorobenzene	A	5.00	5.23	0.722567	0.7563962		4.7	30
Chloroethane	A	5.00	4.88	0.3176996	0.3101329		-2.4	30
Chloroform	A	5.00	7.26	1.566853	2.274344		45.2	30 *
Chloromethane	A	5.00	5.49	0.5148629	0.5656503		9.9	30
Cyclohexane	A	5.00	5.18	0.2460699	0.2549111		3.6	30
Dibromochloromethane	A	5.00	5.76	0.6660755	0.766956		15.1	30
1,2-Dibromoethane (EDB)	A	5.00	5.43	0.4925855	0.5353142		8.7	30
1,2-Dichlorobenzene	A	5.00	5.30	0.701028	0.7423722		5.9	30
1,3-Dichlorobenzene	A	5.00	5.52	0.7869725	0.8685998		10.4	30
1,4-Dichlorobenzene	A	5.00	4.97	0.7136596	0.7090609		-0.6	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.24	2.244554	2.352875		4.8	30
1,1-Dichloroethane	A	5.00	4.88	1.19761	1.168181		-2.5	30
1,2-Dichloroethane	A	5.00	5.24	1.327611	1.392609		4.9	30
1,1-Dichloroethylene	A	5.00	5.17	1.286309	1.331074		3.5	30
cis-1,2-Dichloroethylene	A	5.00	5.01	1.000014	1.002467		0.2	30
trans-1,2-Dichloroethylene	A	5.00	4.92	1.057115	1.041		-1.5	30
1,2-Dichloropropane	A	5.00	5.07	0.2447565	0.2482089		1.4	30
cis-1,3-Dichloropropene	A	5.00	5.34	0.3924667	0.4188054		6.7	30
trans-1,3-Dichloropropene	A	5.00	5.33	0.351687	0.3750139		6.6	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.24	1.740306	1.823191		4.8	30
1,4-Dioxane	A	5.00	5.12	0.1242478	0.1272232		2.4	30
Ethanol	A	5.00	5.70	0.1165185	0.1328776		14.0	30
Ethyl Acetate	A	5.00	4.12	0.2207404	0.1817293		-17.7	30
Ethylbenzene	A	5.00	5.37	1.165605	1.252757		7.5	30
4-Ethyltoluene	A	5.00	5.29	1.273496	1.348174		5.9	30
Heptane	A	5.00	5.49	0.2184138	0.2398492		9.8	30
Hexachlorobutadiene	A	5.00	4.82	0.6781653	0.6539004		-3.6	30
Hexane	A	5.00	4.86	0.7870748	0.7652355		-2.8	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S101596-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.20	0.4891791	0.5084302		3.9	30
Isopropanol	A	5.00	5.62	1.238257	1.392595		12.5	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.68	1.903147	1.782146		-6.4	30
Methylene Chloride	A	5.00	5.05	0.7793922	0.7872564		1.0	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.84	0.1920707	0.2243175		16.8	30
Naphthalene	A	5.00	4.17	1.104655	0.9215993		-16.6	30
Propene	A	5.00	4.92	0.4630514	0.4551429		-1.7	30
Styrene	A	5.00	5.54	0.6227226	0.6900132		10.8	30
1,1,2,2-Tetrachloroethane	A	5.00	5.49	0.5543625	0.6090936		9.9	30
Tetrachloroethylene	A	5.00	5.34	0.4887859	0.5224876		6.9	30
Tetrahydrofuran	A	5.00	4.30	0.565722	0.4864343		-14.0	30
Toluene	A	5.00	5.29	0.8231446	0.8713065		5.9	30
1,2,4-Trichlorobenzene	A	5.00	4.44	0.5170549	0.4590397		-11.2	30
1,1,1-Trichloroethane	A	5.00	5.37	0.6844746	0.7354202		7.4	30
1,1,2-Trichloroethane	A	5.00	5.35	0.2871772	0.3070587		6.9	30
Trichloroethylene	A	5.00	5.33	0.3312558	0.3531207		6.6	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.34	2.489956	2.658762		6.8	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.20	1.440591	1.497379		3.9	30
1,2,4-Trimethylbenzene	A	5.00	5.21	1.180733	1.231276		4.3	30
1,3,5-Trimethylbenzene	A	5.00	5.50	1.164934	1.281056		10.0	30
Vinyl Acetate	A	5.00	4.27	1.245417	1.062712		-14.7	30
Vinyl Chloride	A	5.00	5.18	0.6172534	0.6398818		3.7	30
m&p-Xylene	A	10.0	10.9	0.9911532	1.080066		9.0	30
o-Xylene	A	5.00	5.43	0.9697068	1.053073		8.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	NY,ME,NH
Benzene	FL,NJ,NY,ME,NH,VA
Benzyl chloride	FL,NJ,NY,ME,NH,VA
Bromodichloromethane	NJ,NY,ME,NH,VA
Bromoform	NJ,NY,ME,NH,VA
Bromomethane	FL,NJ,NY,ME,NH
1,3-Butadiene	NJ,NY,ME,NH,VA
2-Butanone (MEK)	FL,NJ,NY,ME,NH,VA
Carbon Disulfide	NJ,NY,ME,NH,VA
Carbon Tetrachloride	FL,NJ,NY,ME,NH,VA
Chlorobenzene	FL,NJ,NY,ME,NH,VA
Chloroethane	FL,NJ,NY,ME,NH,VA
Chloroform	FL,NJ,NY,ME,NH,VA
Chloromethane	FL,NJ,NY,ME,NH,VA
Cyclohexane	NJ,NY,ME,NH,VA
Dibromochloromethane	NY,ME,NH
1,2-Dibromoethane (EDB)	NJ,NY,ME,NH
1,2-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	NJ,NY,ME,NH
1,4-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH
1,1-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	NJ,NY,ME,NH,VA
1,2-Dichloropropane	FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	NJ,NY,ME,NH,VA
1,4-Dioxane	NJ,NY,ME,NH,VA
Ethylbenzene	FL,NJ,NY,ME,NH,VA
Heptane	NJ,NY,ME,NH,VA
Hexachlorobutadiene	NJ,NY,ME,NH,VA
Hexane	FL,NJ,NY,ME,NH,VA
Isopropanol	NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	FL,NJ,NY,ME,NH,VA
Methylene Chloride	FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Styrene	FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	FL,NJ,NY,ME,NH,VA
Toluene	FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	FL,NJ,NY,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Trichloroethylene	FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	NJ,NY,ME,NH
1,3,5-Trimethylbenzene	NJ,NY,ME,NH
Vinyl Acetate	FL,NJ,NY,ME,NH,VA
Vinyl Chloride	FL,NJ,NY,ME,NH,VA
m&p-Xylene	FL,NJ,NY,ME,NH,VA
o-Xylene	FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
FL	Florida Department of Health	E871027 NELAP	06/30/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024

Requested Turnaround Time

[illegible]

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

Matrix Codes:

Page 21 of 22

	DC#_Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client LE Environmental LLC
 Project 211 Route 9 West
 MCP/RCP Required _____
 Deliverable Package Requirement _____
 Location Wilmington, VT
 PWSID# (When Applicable) _____
 Arrival Method Courier
 Received By / Date / Time MEM 2/28/24 1825
 Back-Sheet By / Date / Time KMC 2/29/24 1000
 Temperature Method _____ # _____
 Temp $\leq 6^{\circ}\text{C}$ ☐ Actual Temperature _____
 Rush Samples: Yes / (No) _____ Notify _____
 Short Hold: Yes / (No) _____ Notify _____

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)
 Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☐	☒
Received in Cooler	☐	☒
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Individually Certified Cans	☐	☒
Trip Blanks	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	3	6L	3	2hr	Nut/Ferrule	2	IC Train	
Tedlar Bags					Tubing	4ft		
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

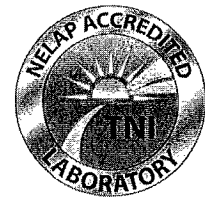
Can #'s	5	10	15	Regs #'s	5	10	15
1 1042	6	11	16	1 4443	6	11	16
2 2204	7	12	17	2 4444	7	12	17
3 2228	8	13	18	3 4639	8	13	18
4	9	14	19	4	9	14	19
Unused Media	4	9	14	Pufs/TO-17's	5	10	15
1	5	10	15	1	6	11	16
2	6	11	16	2	7	12	17
3	7	12	17	3	8	13	18
4	8	13	18	4	9	14	19



Eastern Analytical, Inc.

professional laboratory and drilling services

Angela Emerson
LE Environmental LLC
21 North Main Street #1
Waterbury, VT 05676



Laboratory Report for:

Eastern Analytical, Inc. ID: 274735
Client Identification: 211 Route 9 West | 23-225
Date Received: 3/1/2024

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

3.8.24
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 274735

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Temperature upon receipt (°C): 2.1

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
274735.01	CS-1	3/1/24	2/27/24 10:30	solid		Adheres to Sample Acceptance Policy
274735.02	CS-2	3/1/24	2/27/24 10:35	solid		Adheres to Sample Acceptance Policy
274735.03	CS-3	3/1/24	2/27/24 10:40	solid		Adheres to Sample Acceptance Policy
274735.04	CS-4	3/1/24	2/27/24 10:50	solid		Adheres to Sample Acceptance Policy
274735.05	CS-5	3/1/24	2/27/24 11:00	solid		Adheres to Sample Acceptance Policy
274735.06	CS-6	3/1/24	2/27/24 11:05	solid		Adheres to Sample Acceptance Policy
274735.07	CS-7	3/1/24	2/27/24 11:10	solid		Adheres to Sample Acceptance Policy
274735.08	Duplicate	3/1/24	2/27/24 10:35	solid		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: **274735**

Client: **LE Environmental LLC**

Client Designation: **211 Route 9 West | 23-225**

Sample ID:	CS-1	CS-2	CS-3	CS-4
Lab Sample ID:	274735.01	274735.02	274735.03	274735.04
Matrix:	solid	solid	solid	solid
Date Sampled:	2/27/24	2/27/24	2/27/24	2/27/24
Date Received:	3/1/24	3/1/24	3/1/24	3/1/24
% Solid:				
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	3/6/24	3/6/24	3/6/24	3/6/24
Date of Analysis:	3/7/24	3/7/24	3/7/24	3/7/24
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A
Dilution Factor:	5	5	5	4
PCB-1016	< 0.08	< 0.08	< 0.08	< 0.07
PCB-1221	< 0.08	< 0.08	< 0.08	< 0.07
PCB-1232	< 0.08	< 0.08	< 0.08	< 0.07
PCB-1242	< 0.08	< 0.08	< 0.08	< 0.07
PCB-1248	< 0.08	0.21	< 0.08	< 0.07
PCB-1254	0.25	0.26	< 0.08	< 0.07
PCB-1260	< 0.08	< 0.08	< 0.08	< 0.07
PCB-1262	< 0.08	< 0.08	< 0.08	< 0.07
PCB-1268	< 0.08	< 0.08	< 0.08	< 0.07
TMX (surr)	66 %R	67 %R	60 %R	83 %R
DCB (surr)	47 %R	45 %R	38 %R	54 %R

Results are reported on a solid as received basis.

Acid clean-up was performed on the samples and associated batch QC.

Detection limits elevated due to sample matrix and in response to the lower initial mass used for analysis.



LABORATORY REPORT

EAI ID#: 274735

Client: LE Environmental LLC

Client Designation: 211 Route 9 West | 23-225

Sample ID:	CS-5	CS-6	CS-7	Duplicate
Lab Sample ID:	274735.05	274735.06	274735.07	274735.08
Matrix:	solid	solid	solid	solid
Date Sampled:	2/27/24	2/27/24	2/27/24	2/27/24
Date Received:	3/1/24	3/1/24	3/1/24	3/1/24
% Solid:				
Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date of Extraction/Prep:	3/6/24	3/6/24	3/6/24	3/6/24
Date of Analysis:	3/7/24	3/7/24	3/7/24	3/7/24
Analyst:	MB	MB	MB	MB
Extraction Method:	3540C	3540C	3540C	3540C
Analysis Method:	8082A	8082A	8082A	8082A
Dilution Factor:	4	5	5	5
PCB-1016	< 0.07	< 0.08	< 0.08	< 0.08
PCB-1221	< 0.07	< 0.08	< 0.08	< 0.08
PCB-1232	< 0.07	< 0.08	< 0.08	< 0.08
PCB-1242	< 0.07	< 0.08	< 0.08	< 0.08
PCB-1248	< 0.07	< 0.08	< 0.08	0.26
PCB-1254	< 0.07	< 0.08	< 0.08	0.32
PCB-1260	< 0.07	< 0.08	< 0.08	< 0.08
PCB-1262	< 0.07	< 0.08	< 0.08	< 0.08
PCB-1268	< 0.07	< 0.08	< 0.08	< 0.08
TMX (surr)	85 %R	93 %R	77 %R	68 %R
DCB (surr)	55 %R	76 %R	70 %R	46 %R

Results are reported on a solid as received basis.

Acid clean-up was performed on the samples and associated batch QC.

Detection limits elevated due to sample matrix and in response to the lower initial mass used for analysis.



QC REPORT

EAI ID#: 274735

Client: LE Environmental LLC

Batch ID: 638453-17136/S030624PCB1

Client Designation: 211 Route 9 West | 23-225

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
PCB-1016	< 0.02	0.12 (89 %R)	0.12 (87 %R) (2 RPD)	3/7/2024	mg/kg	40 - 140	30	8082A
PCB-1221	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/7/2024	mg/kg			8082A
PCB-1232	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/7/2024	mg/kg			8082A
PCB-1242	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/7/2024	mg/kg			8082A
PCB-1248	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/7/2024	mg/kg			8082A
PCB-1254	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/7/2024	mg/kg			8082A
PCB-1260	< 0.02	0.12 (88 %R)	0.12 (91 %R) (4 RPD)	3/7/2024	mg/kg	40 - 140	30	8082A
PCB-1262	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/7/2024	mg/kg			8082A
PCB-1268	< 0.02	< 0.02 (%R N/A)	< 0.02 (%R N/A) (RPD N/A)	3/7/2024	mg/kg			8082A
TMX (surr)	78 %R	79 %R	82 %R	3/7/2024	% Rec	30 - 150	30	8082A
DCB (surr)	88 %R	90 %R	97 %R	3/7/2024	% Rec	30 - 150	30	8082A

*!/ Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



Brownfields Phase II Environmental Site Assessment Report
211 Route 9 West, Wilmington, Vermont

Appendix E

Data Validation Report

**Data Validation Report
211 Route 9 West
Wilmington, VT
June 30, 2024**

Sampling Summary

The project scope included collection of ten soil samples, four groundwater samples, seven concrete floor samples, and two sub-slab soil gas samples from the Site. Quality Assurance samples included a duplicate soil sample, a methanol trip blank (soil), a duplicate groundwater sample, an aqueous trip blank, a duplicate concrete sample, and an ambient air sample collected simultaneously with the sub-slab soil gas samples.

Sampling Procedures and Protocols

All of the work described in the approved SSQAPP Addendum dated January 11, 2024 was performed as described with the following exceptions:

- Shallow refusal was encountered in each of the soil borings, and they were not able to be advanced as far as indicated in the SSQAPP. Advancement was into the groundwater table at each boring location except at SB-5.
- Soil gas samples were obtained from the first floor of the main building instead of the basement due to the basement being flooded with water and the shallow groundwater table observed at the Site.

Field data sheets and the field notebooks were reviewed to ensure proper documentation of the sampling conditions. All entries were made with permanent ink. Entries included the identity of the sampler, sampling location, time, and date. All entries and equipment used were recorded on the daily work report.

The chain of custody forms were reviewed to ensure the sample identification, number, type and size of sample containers, preservatives used; and signatures were properly recorded and were in accordance with the SSQAPP addendum.

The laboratory cover sheets, sample acceptance forms and case narratives were reviewed. All samples adhered to the laboratories' acceptance policies. All samples were analyzed in accordance with laboratory SOPs. No deviations from laboratory protocols were noted on the laboratory cover sheets.

All samples arrived at the laboratories under chain-of-custody procedures and at appropriate temperature and sample condition, and all analyses were performed within the EPA Method specified holding times.

Laboratory Notes

The following notes are present on the laboratory analytical reports received:

- Soil
 - All LS/LSD results were within specified ranges, except carbon disulfide recovery was below acceptance limits in the QC sample. The analyte was not detected in the samples.
 - Samples SB-3d, SB-2s, and SB-1s: 1,2-Dibromo-3-Chloropropane and 1,2,3-Trichloropropane were assessed down to the listed concentrations and are considered estimated values.
 - Sample SB-3s: reporting limits were elevated due to low methanol volume in sample.
- Concrete
 - Detection limits were elevated due to sample matrix and in response to lower initial mass used for analysis.
- Groundwater
 - The following analytes were assessed down to the listed concentrations, 1,2-dibromoethane (EDB) (0.05ug/L), 1,2,3-Trichloropropane (0.02ug/L). Detectable analytes are reported as J flags and should be considered estimated values.
- Soil gas
 - The concentration of acetone in VP-1 is estimated. Value was reported over verified calibration range.
 - The laboratory fortified blank/laboratory control sample recovery for chloroform is outside of control limits. Reported value for this compound is likely to be biased on the high side at VP-2.

Trip and Laboratory Blanks

An aqueous trip blank was submitted with the groundwater samples. The trip blank was brought into the field and handled with the other samples obtained during the assessment. No contaminants were detected in the blank, which indicates there was no contamination of samples resulting from handling in the field or while in transit. The laboratories prepared method blanks for all analyses performed and reported no detection of compounds.

MS/MSD and LCS/LCSD

The laboratories performed laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analysis. All LCS analysis met the laboratory acceptance criteria for recovery and relative percent difference (RPD) except as follows:

- The Con-test laboratory report indicates that LCS/LCS Duplicate recovery was acceptable for all VOCs except LCS recovery for chloroform.

RPD

RPD values were calculated for the field duplicates and corresponding samples.

- A soil sample (SB-4d) and duplicate soil sample collected on May 7, 2024 were analyzed for VOCs, PCBs, RCRA 8 Metals, and PAHs. Calculated RPDs were <50%.
- A groundwater sample (MW-3) and duplicate groundwater sample collected on May 16, 2024. The calculated RPD was below the 30% threshold in the SSQAPP Addendum.
- A concrete sample (CS-2) and duplicate groundwater sample collected on February 27, 2024. The calculated RPD was below the 50% threshold in the SSQAPP Addendum.

Surrogate Recovery

Surrogate recovery analyses performed by the laboratories were within acceptable ranges.

Reporting Limits

Laboratory reporting limits were compared with applicable regulatory criteria for each tested compound as published in the Department of Environmental Conservation Investigation and Remediation of Contaminated Properties Rule and the Groundwater Protection Rule and Strategy. The following observations were made.

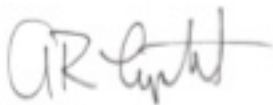
- The soil sample laboratory reporting limits were below the residential regulatory threshold criteria but were slightly elevated above form K values. This situation does not affect the usability of the soil sample data.
- Samples SB-3d, SB-2s, and SB-1s: 1,2-Dibromo-3-Chloropropane and 1,2,3-Trichloropropane were assessed down to relevant soil standards. The listed concentrations are equivalent to the EPA and Vermont DEC residential soil standards, respectively. Neither VOC was reported in any of the soil samples.
- All groundwater sample laboratory reporting limits were at or below the VGES except 1,2,3-Trichloropropane and EDB. The listed concentrations are equivalent to the VGES. Neither VOC was reported in the groundwater samples.
- Reporting limits for five VOCs in groundwater (vinyl chloride, chloroform, carbon tetrachloride, benzene and TCE) exceeded the DEC I-Rule groundwater vapor intrusion standards for residential properties. However, the soil gas testing performed during this assessment did not indicate these compounds to be of concern in soil gas. Of the listed VOCs, only benzene was detected in the ambient air sample, and none of the listed VOCs were detected in the soil gas samples.

Findings and Conclusions

Based on the findings presented above, all data should be accepted without condition. Noted deviations from laboratory control limits do not affect the contaminants of concern for this assessment.

- The LS/LSD results for the soil data were within specified ranges, except carbon disulfide recovery was below acceptance limits in the QC sample. Carbon disulfide was not reported in the soil samples.
- Concentrations of 1,2-Dibromo-3-Chloropropane and Trichloropropane for soil samples SB-3d, SB-2s, and SB-1s are not present at concentrations over the residential VSSs.
- The reporting limits at soil sample SB-3s were elevated but at or below the residential VSS except for EDB and 1,2,3-Trichloropropane, which were assessed to relevant residential soil standards. No other VOCs were detected in the soil sample, and it is unlikely these compounds would be present absent other VOCs.
- The EAI laboratory reporting limit for EDB in groundwater was 0.5 ppb, which was above the VGES of 0.05 ppb. However, the laboratory notes indicate that EDB was assessed down to the VGES concentration of 0.05 ppb, and none was detected. Had detections been made, they would have been considered to be estimated values. It is concluded that EDB is not present in groundwater at the Site at concentrations over the VGES.
- The EAI laboratory reporting limit for 1,2,3-Trichloropropane in groundwater was 0.5 ppb, which was above the VGES of 0.02 ppb. However, the laboratory notes indicate that 1,2,3-Trichloropropane was assessed down to the VGES concentration of 0.02 ppb, and none was detected. Had detections been made, they would have been considered to be estimated values. It is concluded that 1,2,3-Trichloropropane is not present in groundwater at the Site at concentrations over the VGES.
- PCB detection limits in the concrete samples were elevated due to sample matrix and in response to lower initial mass used for analysis. The detection limits and concentrations were below regulatory standards.
- The concentration of acetone in sub-slab soil vapor sample VP-1 was estimated. There is no VI residential standard for acetone.
- The laboratory fortified blank/laboratory control sample recovery for chloroform was outside of control limits for sub-slab sample VP-2. There is no VI residential standard for chloroform.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "AL Liptak".

Alan Liptak, EP
Project Quality Assurance Officer

Data Validation Summary Table
Soil Samples
211 Route 9 West, Wilmington, VT
LEE #23-225



Sample Name	SB-8s	SB-4s	SB-4d	SB-5s	SB-3s	SB-3d	SB-2s	SB-1s	SB-7s	SB-6s	Duplicate SB-4d	Trip Blank
Lab sample number	278335.01	27335.02	27335.03	27335.04	27335.05	27335.06	27335.07	27335.08	27335.09	27835.1	278335.11	278335.12
Date Sampled	5/7/24											
Date of Analysis	5/14/24 (VOCs); 5/14-15/24 (PAHs); 5/15/24 (PCBs); 5/14/24 (RCRA metals)											
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Methanol
Was analysis completed within EPA Method specified holding time?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Were the samples properly handled under COC guidelines?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Were the samples properly chilled? (0-6 degrees C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Were any compounds detected in blanks?	N	N	N	N	N	N	N	N	N	N	N	N
Were the samples properly labeled?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Relative Percent Difference (RPD) acceptable? (<=50% RPD)	N/A	N/A	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Y	N/A
Were laboratory surrogate recovery concentrations acceptable?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Were laboratory control samples and duplicates acceptable?	Y(1)	Y(1)	Y(1)	Y(1)	Y(1)	Y(1)	Y(1)	Y(1)	Y(1)	Y(1)	Y(1)	Y(1)
Reporting limits meet Form K values	Y(3)	Y(3)	Y	Y(3)	Y(3,5)	Y(3,4)	Y(3,4)	Y(4)	Y	Y	Y(3)	Y
Are reporting limits below applicable standards?	Y(2)	Y(2)	Y(2)	Y(2)	Y(2)	Y(2)	Y(2)	Y(2)	Y(2)	Y(2)	Y(2)	Y(2)

Notes:

Y=Yes, N=No, N/A=Not applicable to sample

Y(1)= All LS/LSD results were within specified ranges, except carbon disulfide recovery was slightly below acceptance limits in the QC sample. The analyte was not detected in the samples.

Y(2)=Yes except select VOCs indicated in form K.

Y(3)=Yes except slightly elevated PAHs

Y(4)=1,2-Dibromo-3-Chloropropane and 1,2,3-Trichloropropane were assessed down to relevant EPA and DEC residential soil standards; neither compound was detected in any of the soil samples.

Y(5)=Sample had elevated reporting limits of VOCs due to low methanol volume in sample. Results are still below regulatory standards except as noted for VOCs in form K

Relative Percent Difference Calculations
211 Route 9 West
Wilmington, VT



<i>Soil Sample</i>	<i>SB-4d</i>	<i>Duplicate</i>	Relative
<i>Sample Depth (ft.)</i>	4-5.5		Percent
<i>PID reading (ppm)</i>	0.3		Difference
<i>Sample Date</i>	5/7/24		(%)
TOTAL METALS, EPA Method 6020 (mg/kg, dry)			
Total Arsenic	1.8	2.3	12
Total Barium	19	25	14
Total Cadmium	ND<0.5	ND<0.5	-
Total Chromium	5.6	7.1	12
Total Lead	3.7	4.5	10
Total Mercury	ND<0.1	ND<0.1	-
Total Selenium	ND<0.5	ND<0.5	-
Total Silver	ND<0.5	ND<0.5	-

Data Validation Summary Table
Groundwater Samples
211 Route 9 West, Wilmington, Vermont
LEE #23-225



Sample Name	MW-1	MW-2	MW-3	Duplicate	MW-4	Trip Blank
Lab sample number	278783.01	278783.02	278783.03	278783.04	278783.05	278783.06
Date Sampled	5/16/24					4/12/24
Date of Analysis	5/17/2024 (VOCs), 5/21/2024 (Metals)					5/17/24
Sample Type	GW	GW	GW	GW	GW	Water
Was analysis completed within EPA Method specified holding time?	Y	Y	Y	Y	Y	Y
Were the samples properly handled under COC guidelines?	Y	Y	Y	Y	Y	Y
Were the samples properly chilled? (0-6 degrees C)	Y	Y	Y	Y	Y	Y
Were any compounds detected in blanks?	N	N	N	N	N	N
Were the samples properly labeled?	Y	Y	Y	Y	Y	Y
Relative Percent Difference (RPD) acceptable? (<=30% RPD)	N/A	N/A	Y	Y	N/A	N/A
Were laboratory surrogate recovery concentrations acceptable?	Y	Y	Y	Y	Y	Y
Were laboratory control samples and duplicates acceptable?	Y	Y	Y	Y	Y	Y
Reporting limits meet Form K values	Y (1)	Y (1)	Y (1)	Y (1)	Y (1)	Y (1)
Are reporting limits at or below applicable standards?	Y (2)	Y (2)	Y (2)	Y (2)	Y (2)	Y (2)

Notes:

Y=Yes, N=No, N/A=Not applicable to sample; GW = groundwater

Y (1): Yes except naphthalene

Y (2): Yes except as noted in form K and naphthalene was equal to regulatory standard

Relative Percent Difference Calculations
Groundwater Samples
211 Route 9 West, Wilmington, Vermont



<i>Sample</i>	<i>MW-3</i>	<i>Duplicate</i>	<i>Relative %</i>
<i>Sample Date</i>	<i>5/16/24</i>		<i>Difference</i>
RCRA Metals, EPA Method 6020a (mg/l)			
Total Arsenic	ND<0.005	ND<0.005	-
Total Barium	0.023	0.022	2
Total Cadmium	ND<0.001	ND<0.001	-
Total Chromium	0.0013	0.0012	4
Total Lead	ND<0.001	ND<0.001	-
Total Mercury	ND<0.0001	ND<0.0001	-
Total Selenium	ND<0.001	ND<0.001	-
Total Sliver	ND<0.001	ND<0.001	-

Data Validation Summary Table
Concrete Samples
211 Route 9 West, Wilmington, VT
LEE #23-225



Sample Name	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	Duplicate CS-2
Lab sample number	274735.01	274735.02	274735.03	274735.04	274735.05	274735.06	274735.07	274735.08
Date Sampled	2/27/24							
Date of Analysis	3/7/24							
Sample Type	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Was analysis completed within EPA Method specified holding time?	Y	Y	Y	Y	Y	Y	Y	Y
Were the samples properly handled under COC guidelines?	Y	Y	Y	Y	Y	Y	Y	Y
Were the samples properly chilled? (0-6 degrees C)	Y	Y	Y	Y	Y	Y	Y	Y
Were any compounds detected in blanks?	N	N	N	N	N	N	N	N
Were the samples properly labeled?	Y	Y	Y	Y	Y	Y	Y	Y
Relative Percent Difference (RPD) acceptable? (<=50% RPD)	N/A	Y	N/A	N/A	N/A	N/A	N/A	Y
Were laboratory surrogate recovery concentrations acceptable?	Y	Y	Y	Y	Y	Y	Y	Y
Were laboratory control samples and duplicates acceptable?	Y	Y	Y	Y	Y	Y	Y	Y
Reporting limits meet Form K values	N(1)	N(1)	N(1)	N(1)	N(1)	N(1)	N(1)	N(1)
Are reporting limits below applicable standards?	Y	Y	Y	Y	Y	Y	Y	Y

Notes:

Y=Yes, N=No, N/A=Not applicable to sample

N(1)= Detection limits were slightly elevated due to sample matrix and in response to the lower initial mass used for analysis

Relative Percent Difference Calculations
211 Route 9 West
Wilmington, VT



<i>Concrete Sample</i>	<i>CS-2</i>	<i>Duplicate</i>	RPD
<i>Sample Date</i>	<i>2/27/24</i>		(%)
PCBs EPA Method 3540C and 8082A (mg/kg)			
Aroclor - 1016	ND<0.08	ND<0.08	-
Aroclor - 1221	ND<0.08	ND<0.08	-
Aroclor - 1232	ND<0.08	ND<0.08	-
Aroclor - 1242	ND<0.08	ND<0.08	-
Aroclor - 1248	0.21	0.26	11
Aroclor - 1254	0.26	0.32	10
Aroclor - 1260	ND<0.08	ND<0.08	-
Aroclor - 1262	ND<0.08	ND<0.08	-
Aroclor - 1268	ND<0.08	ND<0.08	-
Total Reported PCBs	0.47	0.58	10

Data Validation Summary Table
Soil Gas Sampling Summary
211 Route 9 West, Wilmington, Vermont
LEE #23-225



Sample Name	VP-1	VP-2	Ambient
Lab sample number	24B3057.01	24B3057-02	24B3057-03
Date Sampled	2/27/24		
Date of Analysis	3/12-3/13/2024		
Sample Type	Soil gas		Outdoor air
Was analysis completed within EPA Method specified holding time?	Y	Y	Y
Were the samples properly handled under COC guidelines?	Y	Y	Y
Were the samples properly chilled? (0-6 degrees C)	N/A	N/A	N/A
Were any compounds detected in blanks?	N	N	N
Were the samples properly labeled?	Y	Y	Y
Relative Percent Difference (RPD) acceptable? ($\leq 50\%$ RPD)	N/A	N/A	N/A
Were laboratory surrogate recovery concentrations acceptable?	Y	Y	Y
Were laboratory control samples and duplicates acceptable?	Y(1)	Y(1)	Y(1)
Reporting limits meet Form K values	Y	Y	Y
Are reporting limits below applicable standards?	Y(2)	Y	Y

Notes:

Y=Yes, N=No, N/A=Not applicable to sample

Y(1)=LCS recovery outside of control limits for the following: chloroform

Y(2)=Concentration of acetone estimated - value reported over calibration range



Appendix F

Field Notes

**211 ROUTE 9 WEST
WILMINGTON, VERMONT
SOIL GAS SAMPLING FIELD FORM
JOB # 23-225**

DATE: 2/27/24 INSPECTORS(S): AE

Equipment Needed:

- PID
- Temp/humidity pen
- Micromanometer
- Tool bag with play dough
- Water
- Soil Gas Cans, regulators and tubing
- Vapor pin kit with extractor
- Hydraulic cement
- Decon stuff
- Tools (1/2" and 7/16" wrenches, utility knife, screwdriver, hammer)

Install soil gas pins-VP-1 and VP-2

QA-Interior soil gas pins

- Locate pins, remove caps
- Perform QA water dam test with play-dough

Sampling

- Record temp, humidity, ambient PID
- Record differential pressure readings for each (line vs. atmosphere)
- Connect tubing to regulator to canister. Record PID reading
- Turn on canister.
- Set ambient air canister at a suitable outside location.
- Let run 2 hours or until 3" HG remains in can, whichever comes first.
- Shut down, collect PID readings, differential pressure, temp/humidity.
- Submit 2 soil gas samples and one ambient to PACE for T015 VOCs.

211 ROUTE 9 WEST
WILMINGTON, VERMONT
SOIL GAS SAMPLING FIELD FORM
JOB # 23-225

SOIL GAS TESTING DATA SHEET

Temperature at start of testing: 49°F outdoors 49°F indoors

Temperature at end of testing: 50°F outdoors 46°F indoors

Relative humidity at start of testing: 52% outdoors 64% indoors

Relative humidity at end of testing: 49% outdoors 41% indoors

Barometric Pressure and Location 30.00" ↓ Ambient PID Background 0.1

<u>Sample #</u>	<u>QA Pass?</u>	<u>Start Time</u>	<u>Vacuum "HG Start</u>	<u>PID (start)</u>	<u>Diff Press (start)</u>	<u>End Time</u>	<u>Vacuum "HG End</u>	<u>PID End</u>	<u>Diff Pressure (end)</u>
<u>VP-1</u>	<u>Yes</u>	<u>1156</u>	<u>-27</u>	<u>0.5</u>	<u>0.0</u>	<u>1356</u>	<u>-4</u>	<u>0.6</u>	<u>0.0</u>
<u>VP-2</u>	<u>Yes</u>	<u>1204</u>	<u>-28</u>	<u>0.5</u>	<u>0.8</u>	<u>1404</u>	<u>-5</u>	<u>0.5</u>	<u>0.0</u>
<u>Ambient</u>	<u>N/A</u>	<u>1208</u>	<u>-29</u>	<u>0.1</u>	<u>N/A</u>	<u>1408</u>	<u>-5</u>	<u>0.0</u>	<u>N/A</u>

**211 ROUTE 9 WEST
WILMINGTON, VERMONT
CONCRETE SAMPLING FIELD FORM
JOB # 23-225**

DATE: 2/27/24 INSPECTOR(S): AE

Equipment Needed: Hammer drill and bits, EAI containers, markers, chain of custody, decon equipment (coolers, gloves,alconox, distilled water, etc.)

TASK 1: Collect concrete samples from the slab of the main building for PCBs. The locations are shown on the Site sketch. Seven interior concrete samples will be obtained from the floor slab using a core drill. Collect a duplicate concrete sample as well. Submit the samples to EAI for analysis of PCBs via Method 8082a with Soxhlet extraction via EPA Method 3540C

CONCRETE SAMPLES

<u>Sample #</u>	<u>Time</u>	<u>Comments</u>
<u>CS-1</u>	1030	Basement
<u>CS-2</u>	1035	1 st Floor S
<u>CS-3</u>	1040	1 st Floor E
<u>CS-4</u>	1050	1 st Floor E
<u>CS-5</u>	1100	1 st Floor E
<u>CS-6</u>	1105	1 st Floor NW
<u>CS-7</u>	1110	1 st Floor NE
<u>DUPLICATE</u> CS-2	1035	1 st Floor S.

**211 ROUTE 9 WEST
WILMINGTON, VT
SOIL SAMPLING FIELD FORM
JOB # 23-225**

DATE: 5/7/24 INSPECTORS(S): AE

Task 2: Drilling - A geoprobe drill rig will be utilized to advance eight soil borings at the exterior locations as shown on the Proposed Phase II ESA Site Map.

Continuous soil sampling will be conducted during soil boring advancement. Soil samples will be screened for VOCs using a calibrated PID. The samples will be collected from the soil horizon exhibiting the greatest degree of contamination in the field as evidenced by PID reading, staining, or odor. If there is no indication of contamination, then the soil sample will be collected from 0-1.5' bg to gauge surface soil conditions.

Continuous soil sampling will be conducted during soil boring advancement. Soil samples will be screened for VOCs using a calibrated PID. Laboratory analytical samples will be collected from 0-1.5' bg to gauge surface soil conditions in each soil boring. Additionally, deeper soil samples will be obtained from two soil borings (SB-3 and SB-4) at the soil horizon exhibiting the greatest degree of contamination in the field as evidenced by PID reading, staining, or odor, or at the groundwater interface if no field evidence of contamination is observed.

Each soil sample will be submitted for analysis of the following constituents, and a duplicate will be collected (total of eleven samples):

- VOCs via EPA Method 8260c
- PAHs via EPA Method 8270e
- PCBs via EPA Method 8082a with Soxhlet Extraction EPA M3540c
- RCRA 8 Metals via EPA Method 6020a

Samples will be submitted to Eastern Analytical Laboratories of Concord, New Hampshire (EAL) for analysis.

Groundwater monitoring wells will be installed at SB-1, SB-2, SB-3, and SB-4. Develop each well following its installation with a peristaltic pump. Below is a summary of soil boring location, purpose, and probable depth.

211 ROUTE 9 WEST
WILMINGTON, VT
SOIL SAMPLING FIELD FORM
JOB # 23-225

SOIL SAMPLES

<u>Sample #</u>	<u>Time</u>	<u>Location/Depth</u>	<u>PID</u>	
SB-8s	0855	0-1.5'	0.0	6224
SB-4s	0915	0-1.5'	0.1	62164
SB-4D	0955	4-5.5'	0.3	62166
SB-5s	1100	0-1.5'	0.6	62171
SB-3s	1120	0-1.5'	0.2	62163
SB-3D	1130	8-9.5'	0.2	62465
SB-2s	1210	0-1.5'	0.1	62225
SB-1s	1250	0-1.5'	0.1	62684
SB-7s	1335	0-1.5'	0.1	62685
SB-6s	1350	0-1.5'	0.1	62223
<u>Duplicate -</u> SB-4D	0955	4-5.5'	0.3	62167

LE Environmental LLC
211 Route 9 West
Groundwater monitoring
Field Data Form

Per approved work plan

Collect one groundwater sample from MW-1, 2, 3, and 4:
VOCs (M8260c) (3-40 ml glass vials pre-preserved with HCl) and RCRA 8 Metals (1-8oz plasti

Collect one duplicate sample
Submit EAI prepared gw trip blank for M8260c analysis

Equipment

LE Equipment

pH/Conductivity Meter
Truck
Hand Tools
5-gallon pails
WLI
Peristaltic pump and tubing
Deep cycle battery

Geotech Equipment

Turbidity Meter

Supplies

LE Supplies

Bailers
Rope
plastic containers (for field measurements)
paper towels
baggies
gloves
pens
water
soap

EAI Supplies

Cooler, 5 sets Bottles, COC form

4/12/24
1008

Monitoring Well MW-1

Well depth 6'

Depth to Water: 3.45'

[illegible]

Well drilled up
Sampled recharge
1025

Monitoring Well MW-2

Wall depth 6'

Depth to Water: 2.55'

[illegible]

Sampled
1105

LE Environmental LLC
211 Route 9 West
Groundwater monitoring
Field Data Form

Monitoring Well MW-3

Technician: AE

Well depth 10'

Date: 5/16/24

Depth to Water: 3.80

Time	pH	Cond	Temp	Turb
1121	5.86	228	11.7	271
1126	6.01	236	11.4	908
1130	6.09	246	11.5	176
1134	6.10	247	11.5	129
1139	6.11	254	11.4	149
1144	6.11	256	11.6	92.9
1148	6.11	262	11.5	107
1152	6.09	241	11.7	82.5
1155	6.06	245	11.7	66.6
1159	6.11	251	11.7	336
1204	6.08	246	11.7	26.6
1208	6.07	244	11.6	20.1
1211	6.06	242	11.6	18.3
1216	6.05	249	11.6	55.4
1221	6.04	244	11.7	37.4

Sampled
1125
*Dup location

LE Environmental LLC
211 Route 9 West
Groundwater monitoring
Field Data Form

Monitoring Well MW-4

Technician: AE

Date: 5/16/24

Well depth 9'

Depth to Water: 3.58

Time	pH	Cond	Temp	Turb
1247	5.89	634	11.1	138
1252	6.15	641	11.0	109
1257	6.12	613	10.9	81.0
1300	6.09	598	10.7	67.4
1304	6.08	596	10.7	59.4
1308	6.08	596	10.9	47.0
1311	6.09	596	10.9	40.2
1315	6.08	597	10.8	31.1
1319	6.07	599	10.7	26.0
1324	6.07	597	10.8	25.9

Sampled
1325