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Pumping Test Report

Shutesbury Public Library

66 Leverett Road
Shutesbury, Massachusetts

June 2024

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66 Leverett Road, Shutesbury, Massachusetts

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1 Project Overview

This Pumping Test Report has been prepared by Fuss & O'Neill on behalf of the Town of Shutesbury (the Town) in support of the installation of a new potable water supply (PWS) to support the development of the Shutesbury Public Library. The Report summarizes the results of the PWS well pumping test conducted at the Site during March 2023.

The future Shutesbury Public Library, (the Site) will be located at 66 Leverett Road in Shutesbury, Massachusetts. The Site is located on a parcel of approximately 20.2 acres. A topographic map showing the location of the Site is provided as *Figure 1*.

Due to the absence of a municipal water supply system in the area, the Site requires a potable water supply source. It is anticipated that the water supply will serve more than 25 individuals for at least 60 days per year; as such, the well to be installed is classified as a transient, non-community (TNC) PWS.

1.1 Potable Water Supply

Based on assessments of anticipated building occupancy, it is estimated that the Site requires a potable water supply of less than 1,000 gallons per day (gpd) or less than 1 gallon per minute (gpm). The daily water supply estimate outlined above is based on pre-Covid assessments of library attendance provided by the Town.

A PWS did not previously exist at the Site. The new well is located on Site grounds to the south of the proposed library, on the north end of the 66 Leverett Road parcel, such that the Zone I is entirely within the property boundary of 66 Leverett Road. Water is to be stored in a steel tank to maintain pressure and to allow the system to meet anticipated peak demand. Based on the results of the pumping test, a Point of Entry Treatment (POET) system is being recommended and is discussed further in *Section 7*. Following construction of the library building, indoor air sampling will be conducted for radon which was detected in groundwater samples collected during the pumping test and is further described in *Section 5.2.* The planned septic system at the Site is located outside of the Zone I of the well. The bedrock well construction details are summarized in *Table 1* and depicted in *Figure 3*. The boring logs for the overburden and bedrock observation wells are provided in *Appendix A*.

2 Site Description

The future Shutesbury Public Library (the Site) is a vacant parcel to be developed as a public library located at 66 Leverett Road in Shutesbury, Massachusetts. The Site is located on a parcel of approximately 20.2 acres. A topographic map showing the location of the Site is provided as *Figure 1*.

The parcel is currently vacant and comprised primarily of vegetated woodland. The northern portion of the parcel was formerly improved with one (1) two-story residential building constructed in 1918 according to a property card obtained from the Town of Shutesbury Assessor's Office and one (1) detached three-bay garage inferred to have been constructed between 1962 and 1972 based on aerial imagery provided by Environmental Data Resources, Inc. (EDR). It is possible that older

residential buildings had existed at the northern portion of the parcel prior to 1918 based on historic topographic maps provided by EDR. The residential structure from 1918 was demolished in May of 2005 and the three-bay garage was demolished in August of 2021. The full EDR report is included as *Appendix B*.

The southern portion of 66 Leverett Road was formerly developed as an Air Force Very High Frequency Omni-Directional Range (VOR) facility including a radio tower (OTO, 2021). It is estimated based on records and aerial photography that this facility was operational from 1960 to 1972. The only component of the VOR facility observed during previous Site inspections made by Fuss & O'Neill was a concrete pad. An oil/hazardous material (OHM) 120-day release notification was reported by The Town of Shutesbury on January 28, 2022, and assigned RTN 1-21489 by MassDEP. The release was related to concentrations of Volatile Petroleum Hydrocarbons (VPH) in soil exceeding the applicable MassDEP RCS-1 Reportable Concentrations. This condition was identified at the south end of the property, near the concrete pad associated with the former radio tower, during the Limited Subsurface Assessment performed in September 2021 by O'Reilly, Talbot & Okun Associates, Inc. (OTO) and documented in a letter report completed by OTO in October 2021 and submitted to MassDEP on January 28, 2022. The release is being managed by the U.S. Army Corps of Engineers (USACE) as a Formerly Used Defense Site (FUDS) as defined by the United Stated Department of Defense (the DOD). The disposal site boundary for this release is outside the IWPA zone developed for the proposed PWS.

2.1 Geologic Background

2.1.1 Bedrock Geology

According to the Bedrock Geologic Map of Massachusetts (Zen, 1983), bedrock beneath the Site is mapped as the Dry Hill Gneiss, which is "pink microcline-biotite and microcline-hornblende gneiss containing pink microcline megacrysts and minor quartzite" and "biotite-tourmaline schist and quartzite". During the installation of the well, weathered bedrock was encountered at a depth of 24 feet below grade surface (ft bgs) and competent bedrock was encountered at a depth of 43 ft bgs.

2.1.2 Surficial Geology

Surficial material at the property is mapped primarily as the Metacomet fine sandy loam complex (USDA, 2022). This complex consists of loamy till underlain by sandy lodgment till derived from gneiss, and loamy over sandy supraglacial melt-out till derived from gneiss. However, during a November 2022 soil boring investigation performed by Fuss & O'Neill, clays were observed in the subsurface and surficial ponding has been observed across the property which is not typically characteristic of a fine sandy loam. Based on observations made during the installation of the well, overburden is approximately 24 feet thick.

2.2 Existing Land Use

A portion of the USGS topographic map (Shutesbury Quadrangle) showing areas in the vicinity of the Site is provided as *Figure 1*. An aerial image also depicting the calculated Zone I and Interim Wellhead Protection Area (IWPA) at the assumed permitted yield of 0.70 gallons per minute (gpm) is provided as *Figure 2*. The nearest surface water body, a branch of the Town Farm Brook, is located

approximately 1,250 feet to the south of the Disposal Site (USGS, 2018). Town Farm Brook leads to Atherton Brook, which discharges to the Quabbin Reservoir.

Adjacent properties are comprised of undeveloped, municipal, and residential properties. Many of these residential properties are located to the east and west along Leverett Road with the Shutesbury Highway Department building located to the north and undeveloped land to the south.

Figure 2 shows the Site property and the area surrounding the proposed well. The land use in and around the proposed Zone I and proposed IWPA has historically been vacant or residential. The IWPA of the proposed PWS well extends onto adjacent properties. Other pertinent site features are depicted on *Figure 2*.

The project area is not served by municipal water or sewerage. Therefore, it is anticipated that private residences and institutions within one-half mile of the proposed potable well at the Site are served by potable water supply wells and on-site septic systems. There are multiple streams and wetland resource areas within 1,000 feet of the PWS well as shown on *Figure 1* and *Figure 2*.

Based on review of the Massachusetts Department of Environmental Protection (MassDEP) online file viewer, there is one release site associated with MassDEP Release Tracking Number (RTN) 1-21340 that has a mapped disposal site that extends into the IWPA of the PWS well. There are two additional RTNs, 1-16267 and 1-21489, for which their respective disposal site boundaries do not extend into the IWPA but are discussed below due to their proximity to the IWPA. RTN locations are depicted on *Figure 2*.

RTNs with Disposal Site Boundaries located within the IWPA of the Proposed Public Water Supply Well:

- **RTN: 1-21340 (42 Leverett Road):** On June 22, 2021, MassDEP was notified by the University of Massachusetts Amherst of the detection of elevated concentrations of PFAS in potable water wells on and around Leverett Road. RTN 1-21340 was assigned to the condition on June 23, 2021, and a PFAS investigation was initiated by MassDEP.

  In August 2021, PFAS6 (MassDEP regulates the sum of six PFAS compounds, PFNA, PFDA, PFOA, PFOS, PFHxS and PFHpA, identified as “PFAS6”) were detected in private drinking water supplies exceeding applicable regulatory criteria. Additional follow-up investigations were conducted in the following months and in December 2022. Immediate Response Action (IRA) activities have been conducted on behalf of the Town of Shutesbury.

  According to a *Phase I ISI and Tier Classification* by Tighe & Bond, dated November 2023, Imminent Hazards (90 ng/L for PFAS6 concentrations) were determined to exist at various nearby properties and the Site was assigned a Tier I classification. Phase II remedial work is expected to begin in 2024. According to the *Phase I ISI and Tier Classification,* the mapped disposal site boundary extends onto the northern portion of the 66 Leverett Road property where the PWS well is being proposed.

RTNs located outside of the IWPA of the Proposed Public Water Supply Well

- **RTN 1-21489 (66 Leverett Road):** In September 2021, a limited subsurface assessment was performed by O'Reilly Talbot & Okun Associates (OTO). Soil samples from a soil boring at the approximate location of a historical gasoline UST, equaled the applicable reportable concentration (the RCS-1) for C5-C8 aliphatic hydrocarbons of 100 parts per million (ppm). This triggered a 120-day release condition which was reported to MassDEP on January 28, 2022. The condition was assigned RTN 1-21489 on February 1, 2022.

  In November and December of 2022, Fuss & O'Neill conducted further environmental investigations on the Site to further delineate the nature and extent of the release condition, and to confirm the absence or presence of related environmental conditions in the area. Actions taken included the advancement of eight (8) soil borings, the installation of a monitoring well, and sampling of groundwater and soil. Four (4) additional monitoring wells were installed in January of 2023.

  In a Fuss & O'Neill *Phase I ISI and Tier Classification Submittal,* dated January 2023, the Site was assigned a Tier I classification. An April 2023 groundwater investigation was performed by Fuss & O'Neill as part of planned additional response actions. The April 2023 groundwater investigation indicated a decrease in petroleum-related compounds compared to previous sampling conducted in December of 2022 and January of 2023, and attributed elevated heavy metal levels to naturally occurring sources. The mapped disposal site boundary for this release is approximately 500 feet south of the IWPA for the proposed public water supply well. The USACE has taken over as the responsible party for this release and is currently assessing next steps.

- **RTN 1-16267 (59 Leverett Road):** On July 18, 2006, personnel from the Shutesbury Fire Department notified MassDEP of a release of an unknown quantity of gasoline at the Shutesbury DPW facility located on 59 Leverett Road. Tank tightness testing identified a failure in the 1,000-gallon UST located on the premises. The leaking UST was removed on July 25, 2006. IRA activities consisting of the excavation and disposal of impacted soil was approved following the assignment of RTN 1-16267 to the condition.

  In an *Immediate Response Action Completion Report and Response Action Outcome Statement* prepared by ECS Consulting, a Class A2 RAO was recommended on the basis that permanent solutions had been achieved due to a condition of no significant risk, although contamination had not been reduced to background levels. On November 11, 2006, the Class A2 RAO was assigned, meaning that contamination was reduced to below Method 1 cleanup standard, constituting a Permanent Solution with No Conditions.

According to information on the MassGIS online viewer of Natural Heritage and Endangered Species Program (NHESP) habitats, no priority habitats extend onto the subject property. There is one certified vernal pool mapped approximately 3,000 feet west of the Site, and one certified vernal pool mapped approximately 3,300 feet southwest of the Site. The MassDEP Radii Map is included in *Appendix C*.

3 Pumping Test

A *Proposed Groundwater Source Site Exam and Pump Test Approval* (Fuss & O'Neill, 2024) was submitted by Fuss & O'Neill to the MassDEP on February 27, 2024. On March 6, 2024, a Site visit was conducted by Christine Simard of MassDEP, Matthew Kissane of Fuss & O'Neill, and Mary Anne Antonellis and Penny Jaques of the Town of Shutesbury. On March 18, 2024, the MassDEP provided a Notice of Decision and Conditional Approval of the well installation and pumping test. On March 20, 2024, installation of the well began; installation of the well was completed on March 25, 2024. Verbal approval was granted by the MassDEP on March 28, 2024, to conduct the pump test on April 3, 2024. A copy of the Notice of Decision and Conditional Approval is included in *Appendix D*.

The target pumping rate was based on the approvable yield specified by the Town of Shutesbury.

The pumping test for *TNC Wells with Planned Yields Less than 10,000 gpd* was performed in accordance with the guidance provided in Chapter 4 of the MassDEP's *Guidelines for Public Water Systems* (*Guidelines*; April 2014). Cushing and Sons of Keene, New Hampshire provided the equipment for the pumping test while Fuss & O'Neill personnel completed and oversaw the collection of the pumping test field data.

The 24-hour pumping test began on April 2, 2024, and ended on April 3, 2024.

3.1 Pumping Rate

The target pumping rate during the 24-hour pumping test was 0.93 gpm. During the pumping test, the pumping rate was monitored and recorded at least every hour, as outlined in the *Pumping Test Proposal*.

3.2 Pumping Well Water Level Monitoring

Depth to water measurements were taken manually by Fuss & O'Neill staff using a 300-foot water level probe. The pumping of the PWS well began at 2:36 PM on April 2, 2024.

Data was collected during the pumping test at the frequency specified in the *Proposed Groundwater Source Site Exam and Pump Test Approval*:

- Once per minute during the first 10 minutes;
- Every ten minutes for the next fifty minutes; and
- Once per hour for the remainder of the pumping test.

On April 3, 2024, Fuss & O'Neill contacted Ms. Christine Simard of the MassDEP to propose termination of the pumping test. The request included the submission of the drawdown measurements and 180-day drawdown semi-log plot. MassDEP provided verbal approval at 1:08 PM on April 3, 2024, for the termination of pumping at the PWS well at 2:36 PM on April 3, 2024, contingent on the observed flow rate and depth to water remaining stable.

During the recovery period, the water level measurements were collected manually following the shutdown of the pump. Water level measuring equipment was removed from the PWS well at approximately 3:24 pm on April 3, 2024.

3.3 Pumping Test Discharge

Pumping test discharge was directed to the ground surface greater than 100 feet downgradient of the pumping well (i.e., outside of the Zone I limit). Erosion and sedimentation control measures were established, as necessary, at the point of discharge.

3.4 Precipitation and Pressure Monitoring

Fuss & O'Neill used data from the nearby West Pelham Road (KMASHUTE10) weather station, located approximately 1.1 miles southeast of the PWS well to obtain barometric pressure and precipitation data during the background (antecedent) period, pumping test, and recovery period.

The weather station is capable of measuring precipitation to within 0.01-inches. Precipitation and other weather data were recorded every five minutes. Precipitation measurements recorded at 5-minute intervals are provided in *Appendix E*. The precipitation data is summarized in *Table 2*.

3.5 Water Quality Sampling

In accordance with the *Drinking Water Guidelines*, water quality testing for the 24-hour pumping test included the following analyses and collection schedule for samples from the well:

Well Sampling Schedule	Water Quality Sampling Parameters
At beginning of the pumping test	Field Analyses
At 1 hour into the pumping test	Secondary Contaminants
At end of pumping test (prior to pump shutdown)	Field Analyses Secondary Contaminants Total Coliform Bacteria Escherichia (E) Coli Inorganic Compounds (IOCs) Volatile Organic Compounds (VOCs) Radionuclides Perchlorate Nitrate Nitrite Lead Per- and Polyfluroalkyl Substances (PFAS) Synthetic Organic Compounds (SOCs)

Notes:

1 *Secondary contaminants* include total dissolved solids, color, odor, pH, total alkalinity ($CaCO_3$), hardness ($CaCO_3$), calcium, manganese, potassium, iron, magnesium, sulfate, chloride, silver, turbidity, aluminum, zinc, and copper.

3 If total coliform bacteria result is positive, sample must be analyzed for *E. Coli* bacteria.

4 *IOCs* include antimony, arsenic, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, selenium, sodium, and thallium.

5 *VOCs* include all per 310 CMR 22.07B(1) and 22.07C(5).

6 *SOCs* include all regulated and unregulated per 310 CMR 22.07(A) excluding diquat, endothall, glyphosate, and 2,3,4,8-TCDD (Dioxin).

7 *Radionuclides* include radon, gross alpha activity, radium-226, radium-228, and uranium.

8 *PFAS* analysis by EPA Method 537.1 (18 compounds).

9 Field analyses included pH, odor, specific conductance, and temperature.

The groundwater samples were submitted to ESS Laboratory (ESS) of Cranston, Rhode Island for analysis. Field analyses and laboratory analytical results from the pumping test are included in *Table 3* and *Table 4*, respectively.

4 Pumping Test Data and Evaluation Methodology

4.1 Pumping Test Synopses

The following timeline summarizes the pumping test events:

Date	Events
March 31 - April 2, 2024	• 2-day antecedent weather monitoring period from nearby weather station (Pelham Hill Road – KMASHUTE10) begins.
April 2, 2024	• **Start of Pumping Test**. Pumping at a rate of 0.93 gpm commenced at 2:36 PM. • At one hour into pumping (approximately 3:36 PM), samples were collected from an in-line sample port.
April 3, 2024	• At approximately 12:26 pm, water level readings were recorded and sent to MassDEP. After review, at 1:08 pm, MassDEP verbally approved terminating the pumping test after 24 hours from the start of the test had been reached. • At the end of the test at 2:36 pm (approximately 24 hours after the start of the pumping test), samples were collected from the in-line sample port. • At 2:36 PM, the pump was **shut down** and recovery monitoring began.
April 3, 2024	• >95% recovery of drawdown at stabilization achieved in the well at approximately 3:24 pm. Final water level readings were taken by Fuss & O'Neill staff.

4.2 Precipitation and/or Recharge Events

The weather station collected data 48 hours prior to the start of the pump test between March 31, 2024, and April 2, 2024. No significant precipitation and resulting groundwater recharge occurred during the antecedent data collection period. The precipitation data collected from the weather station is provided in *Appendix E*.

Precipitation did occur during the 24-hour pump test with 0.09 inches of accumulated precipitation occurring on the afternoon and evening of April 2 and 0.2 inches of accumulated precipitation occurring on of April 3 before the termination of the pump test.

4.3 Pumping Rate Evaluation

The pumping test was started on April 2, 2024, at a pumping rate of 0.93 gpm. Throughout the duration of the pumping test, the pumping rate was generally stable at 0.93 gpm. The pumping rate was monitored hourly and minor adjustments to the flow rate were required during the pumping test to maintain consistent flow of 0.93 gpm. The pumping rate observations are provided as *Table 5*.

5 Data Evaluation

The pumping test was completed successfully and stabilization at a desired pumping rate was achieved in accordance with the *Guidelines*.

5.1 Pumping Test Data

5.1.1 Drawdown

The drawdown data was collected at PWS well during the pumping test between April 2, 2024, and April 3, 2024. Per the *Guidelines*, beginning at approximately t=0.5 minutes into the pumping test, water level measurement frequency within the pumping well was to be increased such that at a minimum drawdown water level data will be recorded once per minute for the first 10 minutes, then every ten minutes for the next fifty minutes and every hour for the remainder of the pumping test (*Section 3.2*).

Time-drawdown graphs for the PWS well are provided in *Appendix G*.

5.1.2 Stabilization

On April 3, 2024, approximately 24 hours into the test, the drawdown data showed that groundwater levels were fluctuating less than 2 inches per hour during the final four hours of the pump test. Additionally, after completion of the pump test, the drawdown data was graphed on a semi-log plot extrapolating the time-drawdown curve derived from the pumping test and projected over a 180-day period. The graph showed that 97.45% of the water column between the top of the pump and the static water level (468.6 feet of water) is maintained above the pump[2].

[2] The pump was set at 500 feet from top of casing. Static water level was at 19.15 feet. 97.45% of the water column above the pump equates to 468.6 feet, which corresponds to a depth of water of 31.4 feet below top of casing.

5.1.3 Recovery

Once the pumping test was complete and the MassDEP approved terminating the pumping test, the pump was stopped and recovery data was collected at the PWS well.

The PWS well recovered greater than 95% within approximately 48 minutes after pumping test shutdown. The *Guidelines* state that reassessment shall be required if bedrock wells do not recover at least 75% of the total drawdown within the same number of days for which the prolonged pumping test was conducted. Depth to water in the PWS well immediately before the start of the pumping test on April 2, 2024, was 19.15 feet. The depth to water in the PWS well on April 3, 2024, at 3:24 pm (48 minutes after shutdown), was 19.10 feet. Therefore, more than 95% recovery of the initial water column height was achieved. Fuss & O'Neill personnel terminated data collection on April 3, 2024.

5.2 Water Quality Analysis Results

The groundwater samples collected from the PWS well were submitted to ESS Laboratory (ESS) of Cranston, Rhode Island under chain-of-custody protocol. The laboratory analytical reports are provided in *Appendix H*. The results are summarized in *Table 4* and discussed herein:

- Radon (11,197 ± 291 pCi/L) was detected in the sample collected after 24 hours exceeding the Massachusetts Maximum Contaminant Level (MMCL) value (10,000 pCi/L).

- The concentration of iron in the sample collected after 1 hour exceeded the Secondary Maximum Contaminant Levels (SMCL) for aesthetic quality per 310 CMR 22.00. The concentrations of iron in the samples collected after 24 hours were below the SMCLs. Additionally, lab results indicate that iron was present in the method blank during analysis.

- The apparent color of the samples collected after 1 hour were above the SMCL for aesthetic quality per 310 CMR 22.00. However, the samples collected after 24 hours were within the acceptable SMCL range for aesthetic quality.

- The concentrations of other compounds detected in the samples collected after 1 hour and 24 hours of pumping were below the *Drinking Water Guidelines* (per 310 CMR 22.00).

5.3 Zone I Determination

The Zone I radius for the PWS well is calculated as:

Zone I radius in feet = (150 x $\log_{10}$ of pumping rate in gpd) – 350

Pumping rate in gpd: 0.70 gpm x 1440 min/day = 1,008 gpd

Zone I radius in feet = (150 x $\log_{10}$(1,008)) – 350
Zone I radius in feet = 450.5 – 350
Zone I radius in feet = 100.5

Therefore, the Zone I radius for the well is 100.5 feet. A plan of the Zone I and the necessary protective Zone I radius and well location are provided in *Figure 2*. A *Utility Plan* for the proposed library showing the location of the PWS well is included in *Appendix J*.

As shown on the plan, the PWS well is over 100.5 feet from the nearest property line. The area comprising Zone I is wooded. Access to the PWS well is along a temporary dirt access road from the northern portion of the Site Parcel.

5.4 Evaluation of Hydrogeology

The site hydrogeology has been evaluated based on the data generated during the prolonged pumping test.

5.4.1 Specific Capacity

Specific capacity of the aquifer can be calculated using data from the pumping of the PWS well. The specific capacity of the PWS well during the pumping test was calculated using the total drawdown measured prior to pump shutdown (4/3/24 at 2:36 pm):

Specific capacity = pumping rate (yield) / drawdown
= 0.93 gpm / 2.95 ft
= 0.31 gpm/ft

5.4.2 180-day Water Level Projections

180-day projections were prepared for the PWS well. 180-day projections were prepared using semi-log, time-drawdown plots of groundwater level data collected between the start of pumping to termination of pumping.

For each of these wells, the data used to determine the 180-day projections are from the latter portions of the time-drawdown graphs (as described below). The projections are shown on the plots in *Appendix G*.

- For the PWS well, the data used to determine the 180-day projection is from ET = 660 minutes (i.e., April 3, 2024 at 1:36 am) to ET = 1440 minutes (i.e., April 3, 2024 at 2:36 pm).

A straight-line projection of the semi-log plot of water level data extrapolated to 259,200 minutes (i.e., 180 days) was used to estimate water levels after 180 days of pumping. The projected drawdown and resulting groundwater level in the PWS well are as follows:

Well	Projected Drawdown at 180 Days (feet)	Projected Groundwater Level (feet below top of casing)
PWS Well	31.4	50.55

The 180-day projection for the PWS well (i.e., drawdown of 31.4 feet) confirms that the well, which is 600 feet deep, can maintain greater than 15 feet of water above the pump intake at 180 days. [It

should be noted that current plans are to install the well pump at approximately 500 feet below top of casing.] A 180-day water level projection graph is provided in *Appendix G* as drawdown in feet and summarized in *Table 6*.

6 Discussion

6.1 Potable Water Supply Well Yield

The PWS well was effectively pumped for 24 hours. The pumping rate began at 0.93 gpm and generally remained at that rate for the duration of the pumping test. The pumping rates were visually observed and recorded every hour for the duration of the pumping test conducted between April 2 and April 3, 2024. The pumping rate observations are provided as *Table 5*.

Water level data recorded at the proposed PWS at the end of the pumping test indicates that stabilization criteria were met and greater than 15 feet of water was projected to be present above the pump intake at 180 days of pumping.

Based upon the performance of the PWS well during testing, the PWS can sustainably yield the quantity of source water required for the proposed project. In accordance with MassDEP regulations, bedrock wells can be permitted for 75% of the successful pumping rate quantity. Given the achieved pumping rate, the Town of Shutesbury is seeking approval for the following permitted withdrawal rate.

Potable Water Supply Well	Final Pumping Rate (gpm)	75% Rate (gpm)	Zone I Radius (feet)	IWPA Radius (feet)	Daily Permit Rate (gpd)
PWS Well	0.93	0.70	100.5	422.4	1,008

Notes:
Zone I radius (feet) = [150 x log of pumping rate (in gpd)] – 350
IWPA radius (feet) = [32 x pumping rate (in gpm)] + 400

Using a safe yield of 0.93 gpm and a permitted rate of 0.70 gpm, the Zone I and IWPA radii are depicted on *Figure 2*.

7 Conclusions

Pumping test results demonstrate that the desired quantity (0.70 gpm) and quality of potable water can be withdrawn safely and sustainably from the bedrock aquifer underlying the site. It is recommended that a point of entry treatment (POET) system be installed to reduce concentrations of radon. Based on conversations with MassDEP personnel, and due to the relatively low concentrations of radionuclides detected, a viable option may be using a granulated activated carbon (GAC) filter to reduce radionuclide concentrations to below the MMCL. The Town of Shutesbury intends to install a POET system using media listed in the MassDEP – Drinking Water Program List of Approved Technologies for use in Massachusetts – 310 MCR 22.04(8). The Town of Shutesbury also intends to install a sediment pre-filter to extend the lifespan and efficacy of the chosen POET system.

8 References

310 CMR 22.00: Drinking Water, Department of Environmental Protection, effective 10/2/20, updated 11/20/20.

Commonwealth of Massachusetts, Department of Environmental Protection, Bureau of Resource Protection, Drinking Water Program, 2014, Guidelines for Public Water Systems, Chapters 1-15, April 2014.

Tighe & Bond, 2023, Phase I ISI and Tier Classification, 42 Leverett Road, Shutesbury, Massachusetts, RTN 1-21340, November 2023.

Kruseman, G.P., and Ridder, N.A., 1990. *Analysis and Evaluation of Pumping Test Data*. International Institute for Land Reclamation and Improvement: Wageningen, Netherlands.

Zen, Ean; 1983, Bedrock Geologic Map of Massachusetts; United State Department of the Interior, U.S. Geological Survey, in cooperation with the Commonwealth of Massachusetts Department of Public Works and Joseph A. Sinnot, State Geologist.

Tables

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TABLE 1
PUBLIC WATER SUPPLY (PWS) WELL CONSTRUCTION DETAILS
SHUTESBURY PUBLIC LIBRARY
66 LEVERETT ROAD SHUTESBURY, MASSACHUSETTS

APRIL 2024

Well Type	Well ID	Completion Date	Well Construction (all depths below grade)					Typical Static Water Level (2) (ft below TOC)
			Total Depth (feet)	Boring Diameter (in)	Casing Diameter (in)	Casing Depth (feet)	Depth to Bedrock (feet)	
Potable Well	PWS-1	March 25, 2024	~600	12.5	6	60	24-43 (1)	19.15

Notes:
(1) Weathered bedrock was encountered at 24 feet, competent bedrock was encountered at 43 feet and well casing was installed to 60 feet
(2) Static water levels measured immediately prior to pumping test start-up
(3) Pumping test measuring point (MP) elevation = top of casing

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TABLE 2
PRECIPITATION DATA
SHUTESBURY PUBLIC LIBRARY
66 LEVERETT ROAD SHUTESBURY, MASSACHUSETTS

APRIL 2024

Date	Precip. Accumulation (inches)	Pump Test Events
3/25/2024	0.00	Leverett Road in Shutesbury Massachusetts.
3/26/2024	0.00	
3/27/2024	0.07	
3/28/2024	0.68	
3/29/2024	0.02	
3/30/2024	0.00	
3/31/2024	0.00	Start of required weather-monitoring period.
4/1/2024	0.00	
4/2/2024	0.09	Installed pump at well. Start of pump test.
4/3/2024	0.2	End of pumping test (pump shutdown) and start of recovery period.

Notes:
Precipitaion amounts based on data from the Pelham Hill Road Weather Station (KMASHUTE10)
4/3/2024 precipitation only indicative of rainfall prior to termination of the pump test

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TABLE 3
FIELD PARAMETERS
SHUTESBURY PUBLIC LIBRARY
66 LEVERETT ROAD, SHUTESBURY, MASSACHUSETTS

APRIL 2024

Parameter	Sampling Date / Sampling Time	Groundwater at Potable Well		MassDEP Drinking Water Standard
		4/2/2024 4:26 PM	4/3/2024 3:26 PM	
pH	(SU)	8.47	8.04**	6.5-8.5*
Specific Conductivity	(uS/cm)	168.3	---	NE
Temperature	(Celsius)	10.1	---	NE
Observed Odor		none	none	NE

Notes:
MassDEP Drinking Water Standard
NE = None Established
* - Secondary Maximum Contaminant Level (SMCL)
** - pH for the second set of samples was measured by the analytical laboratory
--- = Not analyzed. The field parameters were not analyzed at this time

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TABLE 4
SUMMARY OF GROUNDWATER ALALYTICAL DATA
SHUTESBURY PUBLIC LIBRARY
66 LEVERTT ROAD SHUTESBURY, MASSACHUSETTS

APRIL 2024

		PWS Well		MassDEP Drinking Water Standards		
Sample Location:						
F&O Sample #:		1838240402-01	1838240403-02			
Time Since Pump Test was Initiated:		1 Hour	24 Hours	MMCL	SMCL	MA Drinking Water Guidelines
Sample Date:		4/2/2024	4/3/2024			
Parameters	Units					
Conventional Chemistry Parameters by various methods						
Alkalinity	mg/L	53	50	---	---	---
Ammonia as N	mg/L	---	< 0.10	---	---	---
Apparent Color	Color Units	**30**	< 5	---	15	---
Fluoride	mg/L	**---**	0.282	4.0	2	---
Chloride	mg/L	1.6	4.4	---	250	---
Coliform, Total	Absent/Present	---	Absent	---	---	---
E. Coli	Absent/Present	---	Absent	---	---	---
Cyanide	mg/L	---	< 0.0050	0.2	---	---
Hardness (CaCO3)	mg/L	40.2	40.8	---	---	---
Odor	T.O.N.	ND	1	---	3	---
pH	S.U.	7.74	8.04	---	6.5-8.5	---
Turbidity	NTU	18	1.9	TT,5	---	---
Total Dissolved Solids	mg/L	282	96	---	500	---
Sulfate	mg/L	10	9.8	---	250	---
Perchlorate	µg/L	---	0.0054	2	---	---
Metals by Method 200.7						
Aluminum	mg/L	0.178	< 0.025	---	0.05-0.2	---
Antimony	mg/L	---	< 0.0025	0.006	---	---
Arsenic	mg/L	---	< 0.0025	0.01	---	---
Barium	mg/L	---	< 0.010	2	---	---
Beryllium	mg/L	---	< 0.0005	0.004	---	---
Cadmium	mg/L	---	< 0.002	0.005	---	---
Calcium	mg/L	13	13	---	---	---
Chromium	mg/L	---	< 0.1	0.1	---	---
Copper	mg/L	0.015	< 0.010	TT, 1.3 Action Level	1	---
Iron	mg/L	**B 1.55**	0.209	---	0.3	---
Lead	mg/L	---	< 0.015	TT, 0.015 Action Level	---	---
Magnesium	mg/L	1.86	2.04	---	---	---
Manganese	mg/L	0.031	< 0.010	---	0.05	0.3
Mercury	mg/L	---	< 0.00020	0.002	---	---
Nickel	mg/L	---	< 0.010	---	---	0.1
Potassium	mg/L	3.83	2.39	---	---	---
Selenium	mg/L	---	< 0.0050	0.05	---	---
Silver	mg/L	< 0.005	< 0.005	---	0.1	---
Sodium	mg/L	---	7.68	---	---	20
Thallium	mg/L	---	< 0.0010	0.002	---	---
Zinc	mg/L	< 0.0250	< 0.0250	---	5	---
VOCs by Method 524.2						
Bromodichloromethane	µg/L	---	0.6	---	---	---
Chloroform	µg/L	---	1.8	---	---	70
Various VOCs	µg/L	---	< various	various	---	various
Drinking Water Organics by Method 504.1						
1,2-Diboromoethane (EDB)	µg/L	---	< 0.0051	0.02	---	---
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	---	< 0.0062	0.2	---	---
Drinking Water Organics by Method 505						
Chlordane	µg/L	---	< 0.040	2	---	---
Endrin	µg/L	---	< 0.0080	2	---	---
Toxaphene	µg/L	---	< 0.060	3	---	---
Total PCBs	µg/L	---	< 1	0.5	---	---
Drinking Water Organics by Method 515.3						
2,4-D	µg/L	---	< 0.080	70	---	---
Dalapon	µg/L	---	< 0.40	200	---	---
Dinoseb	µg/L	---	< 0.090	7	---	---
Dicamba	µg/L	---	< 0.080	---	---	---
Pentachlorophenol	µg/L	---	< 0.010	1	---	---
Picloram	µg/L	---	< 0.030	500	---	---
2,4,5,-TP (Silvex)	µg/L	---	< 0.030	50	---	---
Drinking Water Organics by Method 525.2						
Alachlor	µg/L	---	< 0.0098	2	---	---
Aldrin	µg/L	---	< 0.0080	---	---	---
Atrazine	µg/L	---	< 0.0098	3	---	---
Benzo(a)pyrene	µg/L	---	< 0.012	0.2	---	---
Butachlor	µg/L	---	< 0.020	---	---	---
Di(2-ethylhexyl)adipate	µg/L	---	< 0.020	400	---	---
Di(2-ethylhexyl)phthalate	µg/L	---	< 0.098	6	---	---
Dieldrin	µg/L	---	< 0.020	---	---	---
Endrin	µg/L	---	< 0.0097	2	---	---
Heptachlor	µg/L	---	< 0.0043	0.4	---	---
Heptachlor Epoxide	µg/L	---	< 0.0039	0.2	---	---
Hexachlorobenzene	µg/L	---	< 0.0098	1	---	---
Hexachlorocyclopentadiene	µg/L	---	< 0.0098	50	---	---
Lindane	µg/L	---	< 0.0083	0.2	---	---
Methoxychlor	µg/L	---	< 0.0098	40	---	---
Metolachlor	µg/L	---	< 0.0098	---	---	0.1
Metribuzin	µg/L	---	< 0.0098	---	---	---
Propachlor	µg/L	---	< 0.0098	---	---	---
Simazine	µg/L	---	< 0.030	4	---	---
Drinking Water Organics by Method 531.2						
1-Naphthol	µg/L	---	< 0.30	---	---	---
3-Hydroxycarbofuran	µg/L	---	< 0.20	---	---	---
Aldicarb	µg/L	---	< 0.20	---	---	3
Aldicarb Sulfone	µg/L	---	< 0.20	---	---	2
Aldicarb Sulfoxide	µg/L	---	< 0.20	---	---	4
Baygon (Propoxur)	µg/L	---	< 0.20	---	---	---
Carbaryl	µg/L	---	< 0.20	---	---	---
Carbofuran	µg/L	---	< 0.30	40	---	---
Methiocarb	µg/L	---	< 0.40	---	---	---
Methomyl	µg/L	---	< 0.30	---	---	---
Oxamyl	µg/L	---	< 0.30	200	---	---
PFAS						
Perfluorohexanesulfonic acid (PFHxS)	ng/L	---	< 0.26	20 (Combined)	---	---
Perfluoroheptanoic acid (PFHpA)	ng/L	---	< 0.26		---	---
Perfluorooctanoic acid (PFOA)	ng/L	---	< 0.26		---	---
Perfluorooctanesulfonic acid (PFOS)	ng/L	---	< 0.26		---	---
Perfluorononanoic acid (PFNA)	ng/L	---	< 0.26		---	---
Perfluorodecanoic acid (PFDA)	ng/L	---	< 0.26		---	---
N-EtFOSAA	ng/L	---	< 0.26	---	---	---
Perfluoroundecanoic acid (PFUnA)	ng/L	---	< 0.26	---	---	---
N-MeFOSAA	ng/L	---	< 0.26	---	---	---
Perfluorododecanoic acid (PFDoA)	ng/L	---	< 0.26	---	---	---
Perfluorotridecanoic acid (PFTrDA)	ng/L	---	< 0.26	---	---	---
Perfluorotetradecanoic acid (PFTA)	ng/L	---	< 0.26	---	---	---
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ng/L	---	< 0.26	---	---	---
11Cl-PF3OUdS (F53B Minor)	ng/L	---	< 0.26	---	---	---
9Cl-PF3ONS (F53B Major)	ng/L	---	< 0.26	---	---	---
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ng/L	---	< 0.26	---	---	---
Miscellaneous Inorganic Analyses by Various Methods						
Gross Alpha	pCi/L	---	3.23 +/- 1.53	15	---	---
Radium-226	pCi/L	---	0.642 +/- 0.379	5	---	---
Radium-228	pCi/L	---	0.133 +/- 0.351	5	---	---
Radon	pCi/L	---	**11,197 +/- 291**	10,000	---	---
Uranium	µg/L	---	4.67 +/- 0.081	30	---	---
Field Parameters						
Temperature	Degrees C	10.1	---	---	---	---
pH	S.U.	8.47	---	---	6.5-8.5	---
Specific Conductivity	µS/cm	168.3	---	---	---	---
Odor	Observed	none	---	---	---	---

Created by: JK
Checked by: CJO

Notes:

--- = not analyzed or no criteria
ND or <# = Not detected above specified reporting limit
MassDEP = Massachusetts Department of Environmental Protection
TT = Treatment Technique
SMCL = Secondary Maximum Contaminant Level for aesthetic quality
MMCL = Massachusetts Maxiumum Contaminant Level
MA Drinking Water Guidelines = ORS Guidelines (ORSG)
Results in Bold and highlighted in yellow exceed applicable standards or guidelines established by the MassDEP
B = Present in method blank
H1 = Estimated value. Sample hold time was exceeded.

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TABLE 5
PUMPING RATE OBSERVATION
SHUTESBURY PUBLIC LIBRARY
66 LEVERETT ROAD, SHUTESBURY, MASSACHUSETTS

APRIL 2024

Date	Time	Pumping rate (gpm)	Water Level (feet)	Notes
4/2/2024	2:36 PM	0.93	19.15	---
	2:37 PM	0.93	19.15	---
	2:38 PM	0.93	19.15	---
	2:39 PM	0.93	19.19	---
	2:40 PM	0.93	19.25	---
	2:41 PM	0.93	19.29	---
	2:42 PM	0.93	19.35	---
	2:43 PM	0.93	19.36	---
	2:44 PM	0.93	19.45	---
	2:45 PM	0.93	19.45	---
	2:46 PM	0.93	19.45	---
	2:56 PM	0.93	19.63	---
	3:06 PM	0.93	19.91	---
	3:16 PM	0.93	20.09	---
	3:26 PM	0.93	20.21	---
	3:36 PM	0.93	20.32	---
	4:36 PM	0.93	20.70	---
	5:36 PM	0.9	20.55	---
	6:36 PM	0.95	21.23	---
	7:36 PM	0.93	22.76	---
	8:36 PM	0.9	22.48	---
	9:36 PM	0.96	22.47	---
	10:36 PM	0.91	22.65	---
	11:36 PM	0.9	22.77	---
4/3/2024	12:36 AM	0.9	23.69	---
	1:36 AM	0.93	20.70	Generator refueled at 1:25 AM
	2:36 AM	0.93	20.90	---
	3:36 AM	0.93	21.20	---
	4:36 AM	0.93	21.30	---
	5:36 AM	0.93	21.42	---
	6:36 AM	0.93	21.2	Generator refueled at 6:15 AM
	7:36 AM	0.93	21.72	---
	8:36 AM	0.93	21.80	---
	9:36 AM	0.93	21.88	---
	10:36 AM	0.93	21.88	---
	11:36 AM	0.93	21.96	---
	12:36 PM	0.93	22.02	---
	1:36 PM	0.93	22.05	---
	2:36 PM	0.93	22.10	---

Notes:
The generator powering the pump was stopped twice over the course of the 24-hour pump test period in order to safely refuel.

Measurements taken every minute for the first 10 minutes, every 10 minutes for the next 50 minutes, and once an hour for the remainder of the 24-hour pump test period.

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TABLE 6
WATER LEVEL MONITORING
SHUTESBURY PUBLIC LIBRARY
66 LEVERETT ROAD, SHUTESBURY, MASSACHUSETTS

APRIL 2024

Location Type	Location	Start of Pumping*	End of Pumping Test (ET = 1,440 min.)	180-Day Projections	
		Static Water Level (feet below TOC)	Water Levels (feet below TOC)	Projected Drawdown (feet)	Projected Water Level (feet below TOC)
Potable Well	Replacement Well	19.15	22.10	12.3	31.4

* April 2, 2024 at 2:36 pm

Figures

MAP REFERENCE:

THIS MAP WAS PREPARED FROM USGS TOPOGRAPHIC QUADRANGLE IMAGES

SOURCE: OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

SCALE:	
HORZ.:	1" = 2000'
VERT.:	
DATUM:	
HORZ.:	
VERT.:	

0 1000 2000

GRAPHIC SCALE

FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

TOWN OF SHUTESBURY

SITE LOCATION MAP

66 LEVERETT ROAD

SHUTESBURY MASSACHUSETTS

PROJ. No.: 20091032.A22
DATE: 01/26/2023

FIGURE 1

NOTES

1) LOCATION OF PUBLIC WATER SUPPLY WELL IS BASED ON GPS DATA.
2) THE ZONE I BOUNDARY IS LOCATED WITHIN THE 66 LEVERETT ROAD PROPERTY, OWNED BY THE TOWN OF SHUTESBURY.
3) THE WATER WITHDRAWAL RATE OF THE PROPOSED WELL IS 0.75 GALLONS PER MINUTE (GMP).
4) LAND USE WITHIN THE IWPA CONSISTS OF RESIDENTIAL USE.
5) EXISTING AND POTENTIAL SOURCES OF CONTAMINATION WITHIN THE IWPA: THE DISPOSAL SITE BOUNDARY OF RTN 1-21340, ASSOCIATED WITH PFAS IN SOIL AND GROUNDWATER, EXTENDS INTO THE PROPOSED IWPA,ACCORDING TO APPENDIX A OF THE PHASE I ISI AND TIER CLASSIFICATION CONDUCTED BY TIGHE & BOND, DATED NOVEMBER 2023.

MAP REFERENCE:

THIS MAP WAS PREPARED FROM MASSGIS AERIAL IMAGERY (2021). THE SITE PLAN WAS PREPARED BY FUSS &O'NEILL (MARCH 2024).

SOURCE: OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SCALE:
HORZ.: 1" - 200'
VERT.:
DATUM:
HORZ.:
VERT.:
0 100 200
GRAPHIC SCALE

FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

TOWN OF SHUTESBURY

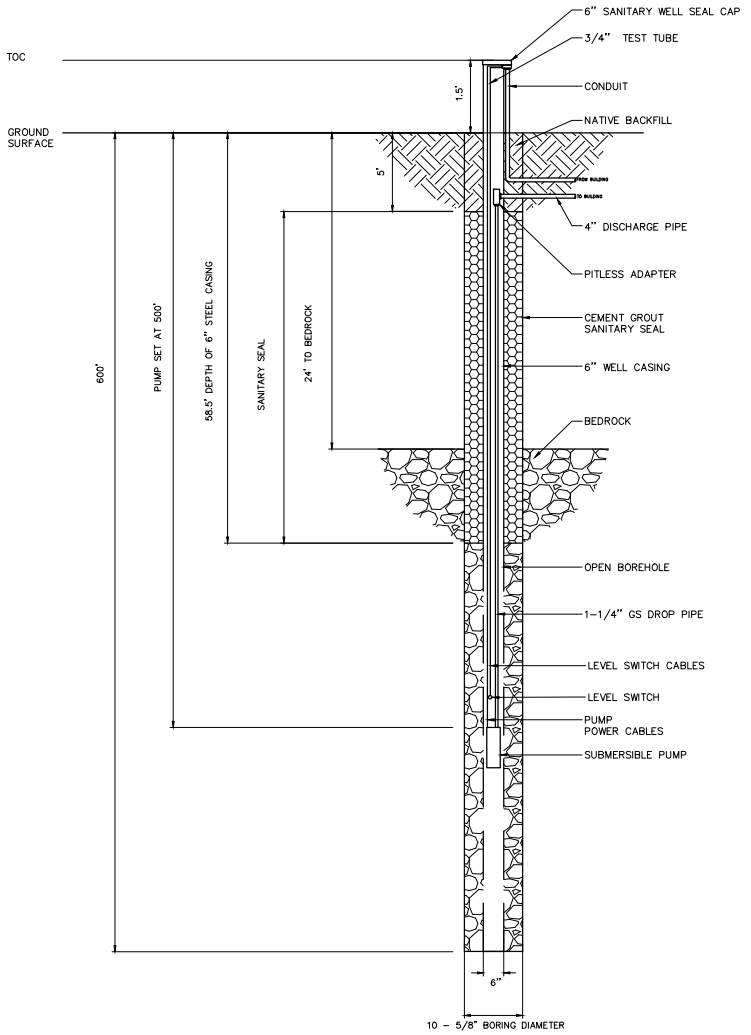
PROPOSED SHUTESBURY PUBLIC LIBRARY ZONE I AND IWPA RADII MAP

66 LEVERETT ROAD

SHUTESBURY MASSACHUSETTS

PROJ. No.: 20221110.A10
DATE: JUNE 2024

FIG. 2



1 PROPOSED POTABLE WATER SUPPLY WELL CONSTRUCTION DETAIL

SCALE: N.T.S.

SCALE:	
HORZ.: N.T.S.	
VERT.:	
DATUM:	
HORZ.:	
VERT.:	
0	
GRAPHIC SCALE	

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www.fando.com

TOWN OF SHUTESBURY

POTABLE WATER

PUMPING WELL DETAIL

SHUTESBURY MASSACHUSETTS

PROJ. No.: 20091032.A23
DATE: APRIL 2024

FIGURE 4

Appendix A

Boring and Well Construction Logs

Fuss & O'Neill
1550 Main Street
Springfield, MA

WELL NUMBER PW-1

CLIENT NAME Shutesbury Library Potable Well

PROJECT NUMBER 20091032.A23

SITE LOCATION Shutesbury, Massachusetts

DATE STARTED 3/20/24 **COMPLETED** 3/25/24

GROUND ELEVATION _____ **HOLE SIZE** 6"

DRILLING CONTRACTOR Cushing & Son's

GROUND WATER LEVELS:

DRILLING METHOD Mud Rotary/Air Rotary

AT TIME OF DRILLING ---

LOGGED BY Jon Kittredge **CHECKED BY** _____

AT END OF DRILLING ---

NOTES _____

AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				(SM) SAND (f) and SILT, trace clay, trace gravel, wet.	Cement Sanitary Seal
24.0		SM		Grey, Weathered GRANITE	
43.0				Grey, GRANITE	Bedrock

GENERAL BH / TP / WELL - ESDAT_LOG1.GDT - 3/26/24 10:05 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINTCL\PROJECTS\SHUTESBURY POTABLE WELL.GPJ

(Continued Next Page)

Fuss & O'Neill
1550 Main Street
Springfield, MA

WELL NUMBER PW-1

CLIENT NAME Shutesbury Library Potable Well

PROJECT NUMBER 20091032.A23

SITE LOCATION Shutesbury, Massachusetts

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
150				Grey, GRANITE *(continued)*	
160					
170					Bedrock
180					
190					
200					
210					
220					
230					
240					
250					
260					
270					
280					
290					
300					
310					
320					

(Continued Next Page)

Fuss & O'Neill
1550 Main Street
Springfield, MA

WELL NUMBER PW-1

CLIENT NAME Shutesbury Library Potable Well

PROJECT NUMBER 20091032.A23

SITE LOCATION Shutesbury, Massachusetts

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
330				Grey, GRANITE *(continued)*	Bedrock
340					
350					
360					
370					
380					
390					
400					
410					
420					
430					
440					
450					
460					
470					
480					
490					

(Continued Next Page)

Fuss & O'Neill
1550 Main Street
Springfield, MA

WELL NUMBER PW-1

PROJECT NUMBER 20091032.A23

CLIENT NAME Shutesbury Library Potable Well

SITE LOCATION Shutesbury, Massachusetts

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
500				Grey, GRANITE *(continued)*	
510					Bedrock
520					
530					
540					
550					
560					
570					
580					
590					
600				600.0	

Bottom of borehole at 600.0 feet.

Appendix B

EDR Report

66 Leverett Road
66 Leverett Road
Shutesbury, MA 01072

Inquiry Number: 7221882.2s
January 10, 2023

The EDR Radius Map™ Report with GeoCheck®

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

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

66 LEVERETT ROAD
SHUTESBURY, MA 01072

COORDINATES

Latitude (North):	42.4477110 - 42ˆ 26' 51.75''
Longitude (West):	72.4162330 - 72ˆ 24' 58.43''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	712487.4
UTM Y (Meters):	4702507.5
Elevation:	1191 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	11747345 SHUTESBURY, MA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140721
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
66 LEVERETT ROAD
SHUTESBURY, MA 01072

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LOT O-32, B9	66 LEVERETT ROAD	SHWS, RELEASE		TP
A2	WESTOVER REMOTE SITE		FUDS	Lower	1 ft.
B3	SHUTESBURY DPW YARD	59 LEVERETT RD	AST	Lower	100, 0.019, North
B4	SHUTESBURY TOWN OF H	59 LEVERETT RD	RCRA NonGen / NLR	Lower	100, 0.019, North
B5	SHUTESBURY DPW	59 LEVERETT RD	LUST, RELEASE, ASBESTOS, HW GEN	Lower	100, 0.019, North
C6	SHUTESBURY FIRE DEPT	42 LEVERETT RD	SHWS, LUST, RELEASE	Lower	432, 0.082, NNE
C7	VEGETATION CONTROL S	LEVERETTE RD	UST, RCRA NonGen / NLR	Lower	545, 0.103, NNE
8	ALBERT BERGONZI	113 LEVERETT RD	UST	Lower	836, 0.158, NW
9	TRASH TRUCK HYDRAULI	93 LEONARD ROAD	SHWS, RELEASE	Lower	5063, 0.959, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LOT O-32, B9 66 LEVERETT ROAD SHUTESBURY, MA 01072	SHWS Release Tracking Number: 1-0021489 Current Status: UNCLSS RELEASE Release Tracking Number / Current Status: 1-0021489 / UNCLSS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators

RCRA-SQG RCRA - Small Quantity Generators
RCRA-VSQG RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS Land Use Control Information System
US ENG CONTROLS Engineering Controls Sites List
US INST CONTROLS Institutional Controls Sites List

Federal ERNS list

ERNS Emergency Response Notification System

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF Solid Waste Facility Database/Transfer Stations

Lists of state and tribal leaking storage tanks

LAST Leaking Aboveground Storage Tank Sites
INDIAN LUST Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST Underground Storage Tank Listing
INDIAN UST Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL Sites With Activity and Use Limitation

Lists of state and tribal voluntary cleanup sites

INDIAN VCP Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS Completed Brownfields Covenants Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory
IHS OPEN DUMPS Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL Delisted National Clandestine Laboratory Register

US CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS ..... Liens Information Listing
LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS ..... Historical Spill List
SPILLS 90 ..... SPILLS 90 data from FirstSearch
SPILLS 80 ..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
US MINES ..... Mines Master Index File
ABANDONED MINES ..... Abandoned Mines
FINDS ..... Facility Index System/Facility Registry System
DOCKET HWC ..... Hazardous Waste Compliance Docket Listing
ECHO ..... Enforcement & Compliance History Information
UXO ..... Unexploded Ordnance Sites
FUELS PROGRAM ..... EPA Fuels Program Registered Listing
PFAS NPL ..... Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES ..... Federal Sites PFAS Information
PFAS TSCA ..... PFAS Manufacture and Imports Information

PFAS RCRA MANIFEST PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR PFAS Contamination Site Location Listing
PFAS WQP Ambient Environmental Sampling for PFAS
PFAS NPDES Clean Water Act Discharge Monitoring Information
PFAS ECHO Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC Aqueous Foam Related Incidents Listing
PFAS PFAS Contaminated Sites Listing
AIRS Permitted Facilities Listing
ASBESTOS ASBESTOS
DRYCLEANERS Regulated Drycleaning Facilities
ENF Enforcement Action Cases
Financial Assurance Financial Assurance Information Listing
GWDP Ground Water Discharge Permits
MERCURY Mercury Product Recyling Drop-Off Locations Listing
NPDES NPDES Permit Listing
TIER 2 Tier 2 Information Listing
TSD TSD Facility
UIC Underground Injection Control Listing
MINES MRDS Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS Recovered Government Archive State Hazardous Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the SHWS list, as provided by EDR, and dated 07/22/2022 has revealed that there are 2 SHWS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHUTESBURY FIRE DEPT	***42 LEVERETT RD***	***NNE 0 - 1/8 (0.082 mi.)***	***C6***	***19***
Release Tracking Number: 1-0016996 Current Status: TMPS				
TRASH TRUCK HYDRAULI	***93 LEONARD ROAD***	***SW 1/2 - 1 (0.959 mi.)***	***9***	***52***
Release Tracking Number: 1-0021056 Current Status: PSNC				

Lists of state and tribal leaking storage tanks

LUST: Sites within the Releases Database that have a UST listed as its source.

A review of the LUST list, as provided by EDR, and dated 07/22/2022 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHUTESBURY DPW	***59 LEVERETT RD***	***N 0 - 1/8 (0.019 mi.)***	***B5***	***15***
Release Tracking Number / Current Status: 1-0016267 / RAO				
SHUTESBURY FIRE DEPT	***42 LEVERETT RD***	***NNE 0 - 1/8 (0.082 mi.)***	***C6***	***19***
Release Tracking Number / Current Status: 1-0016996 / TMPS				

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Summary Listing of all the Tanks Registered in the State of Massachusetts.

A review of the UST list, as provided by EDR, and dated 07/12/2022 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VEGETATION CONTROL S	***LEVERETTE RD***	***NNE 0 - 1/8 (0.103 mi.)***	***C7***	***45***
Tank Status: Tank Removed Facility Id: 6270				
ALBERT BERGONZI	113 LEVERETT RD	NW 1/8 - 1/4 (0.158 mi.)	8	50
Tank Status: Tank Removed				

EXECUTIVE SUMMARY

Facility Id: 1201

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Protection's Summary Listing of all the Tanks Registered in the State of Massachusetts.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHUTESBURY DPW YARD Database: AST, Date of Government Version: 09/21/2022 Release Tracking Number: 22533	59 LEVERETT RD	N 0 - 1/8 (0.019 mi.)	B3	10

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 11/21/2022 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHUTESBURY TOWN OF H EPA ID:: MAR000569590	59 LEVERETT RD	N 0 - 1/8 (0.019 mi.)	B4	12
VEGETATION CONTROL S EPA ID:: MAD002543841	***LEVERETTE RD***	***NNE 0 - 1/8 (0.103 mi.)***	***C7***	***45***

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 08/11/2022 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WESTOVER REMOTE SITE		0 - 1/8 (0.000 mi.)	A2	9

EXECUTIVE SUMMARY

HW GEN: Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

A review of the HW GEN list, as provided by EDR, and dated 09/15/2022 has revealed that there is 1 HW GEN site within approximately 0.25 miles of the target property.

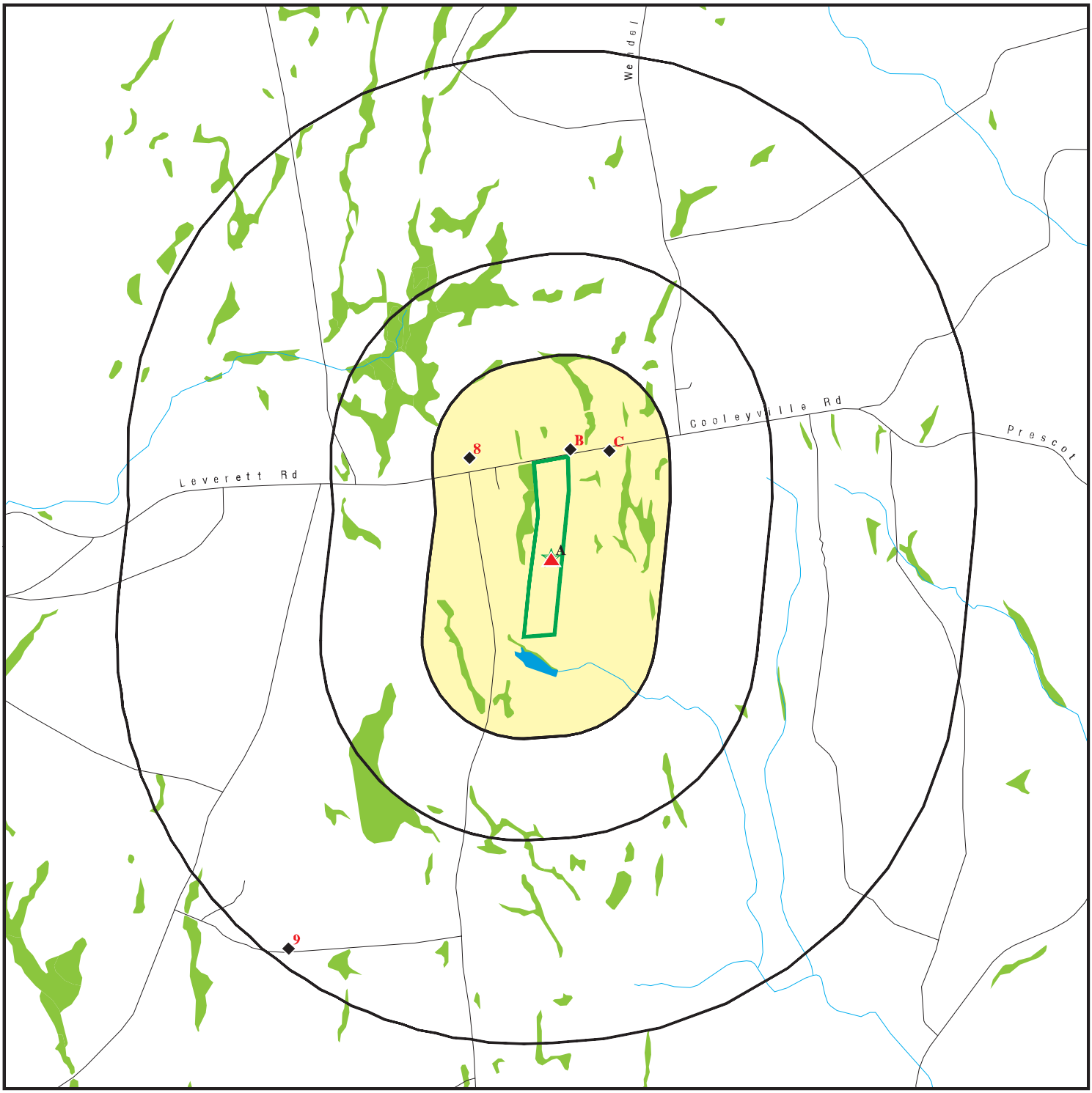
Lower Elevation	Address	Direction / Distance	Map ID	Page
SHUTESBURY DPW	***59 LEVERETT RD***	***N 0 - 1/8 (0.019 mi.)***	***B5***	***15***
State Generator Status: VQG-MA EPA Id: MAR000569590				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
POLE 71/10	SHWS, RELEASE
POLE #11	SHWS, RELEASE
KOLASINSKI DUMP	SWF/LF

OVERVIEW MAP - 7221882.2S

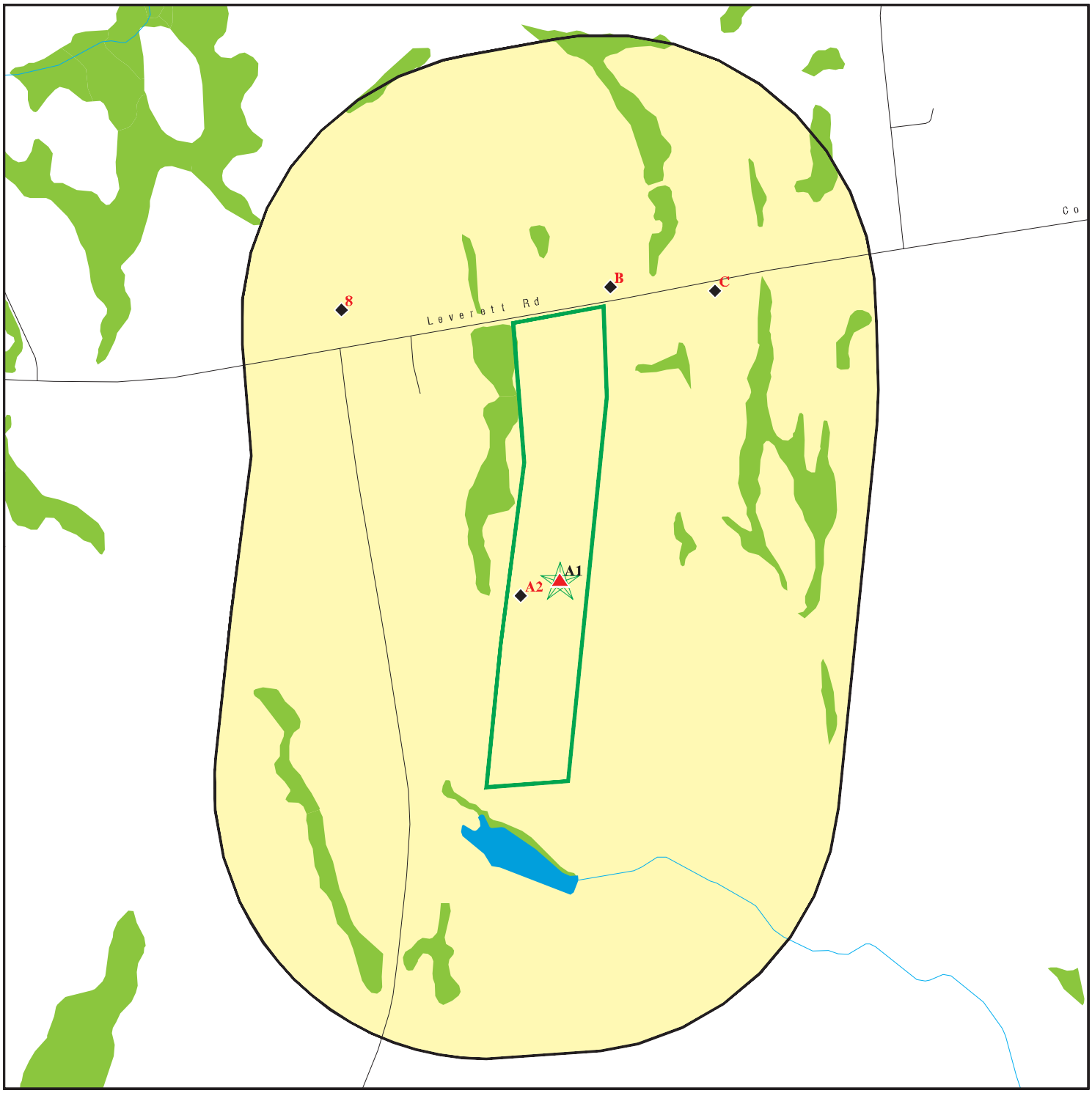


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- National Wetland Inventory
- State Wetlands
- Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 66 Leverett Road	CLIENT: Fuss & O Neill
ADDRESS: 66 Leverett Road Shutesbury MA 01072	CONTACT: Clifford Otis
LAT/LONG: 42.447711 / 72.416233	INQUIRY #: 7221882.2s DATE: January 10, 2023 4:54 pm

DETAIL MAP - 7221882.2S



Target Property
Sites at elevations higher than or equal to the target property
Sites at elevations lower than the target property
Manufactured Gas Plants
Sensitive Receptors
National Priority List Sites
Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA
National Wetland Inventory
State Wetlands

Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 66 Leverett Road	CLIENT: Fuss & O Neill
ADDRESS: 66 Leverett Road Shutesbury MA 01072	CONTACT: Clifford Otis INQUIRY #: 7221882.2s
LAT/LONG: 42.447711 / 72.416233	DATE: January 10, 2023 4:54 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000	1	1	0	0	1	NR	3
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LAST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUST	0.500		2	0	0	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	1	NR	NR	NR	2
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
RELEASE	TP	1	NR	NR	NR	NR	NR	1
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	0	NR	NR	NR	2
FUDS	1.000		1	0	0	0	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Financial Assurance	TP		NR	NR	NR	NR	NR	0
GWDP	TP		NR	NR	NR	NR	NR	0
HW GEN	0.250		1	0	NR	NR	NR	1
MERCURY	0.500		0	0	0	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
TSD	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		2	9	1	0	1	0	13

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **LOT O-32, B9** **SHWS** **S107379021**
Target **66 LEVERETT ROAD** **RELEASE** **N/A**
Property **SHUTESBURY, MA 01072**

Site 1 of 2 in cluster A

Actual:
1191 ft.

SHWS:

Name:	LOT O-32, B9
Address:	66 LEVERETT ROAD
City,State,Zip:	SHUTESBURY, MA 010720000
Facility ID:	1-0021489
Source Type:	UNKNOWN
Release Town:	SHUTESBURY
Notification Date:	01/28/2022
Category:	120 DY
Associated ID:	Not reported
Current Status:	UNCLSS
Status Date:	01/28/2022
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Not reported

Name:	LOT O-32, B9
Address:	66 LEVERETT ROAD
City,State,Zip:	SHUTESBURY, MA 010720000
Facility ID:	1-0021489
Source Type:	HISTORIC
Release Town:	SHUTESBURY
Notification Date:	01/28/2022
Category:	120 DY
Associated ID:	Not reported
Current Status:	UNCLSS
Status Date:	01/28/2022
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Not reported

Release:

Name:	LOT O-32, B9
Address:	66 LEVERETT ROAD
City,State,Zip:	SHUTESBURY, MA 010720000
Release Tracking Number/Current Status:	1-0021489 / UNCLSS
Primary ID:	Not reported
Official City:	SHUTESBURY
Notification:	01/28/2022
Category:	120 DY
Status Date:	01/28/2022
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/31/2022
Response Action Outcome:	Not reported

LOT O-32, B9 (Continued) **S107379021**

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/31/2022
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/1/2022
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/5/2022
Response Action Outcome: Not reported

Chemicals:
Chemical: Not reported
Quantity: Not reported
Location Type: RESIDNTIAL
Location Type: MUNICIPAL
Source: HISTORIC
Source: UNKNOWN

A2 **WESTOVER REMOTE SITE** **FUDS** **1010309713**
N/A

< 1/8
1 ft.

SHUTESBURY, MA

Site 2 of 2 in cluster A

Relative:
Lower

Actual:
1188 ft.

FUDS:
EPA Region: 01
Installation ID: MA19799F198500
Congressional District Number: 2
Name: WESTOVER REMOTE SITE
FUDS Number: D01MA0497
City: SHUTESBURY
State: MA
County: FRANKLIN
Object ID: 9342
USACE Division: nad
USACE District: nae
Status: Properties with all projects at site closeout
Current Owner: PRIV: PRIVATE TOWN OF SHUTESBURY
EMS Map Link: https://fudsportal.usace.army.mil/ems/inventory/map?id=59569
Eligibility: Eligible
Has Projects: Yes
NPL Status: Not on the NPL
Property History: The site was known as Westover Terminal VHF Omni Range (TVOR) Facility. The Air Force used the site for a communication remote site

Project Required: Yes
Feature Description: Not reported
Latitude: 42.4475
Longitude: -72.41694444

FUDS Detail as of Jan 2015:
Fiscal Year: 2013
Federal Facility ID: MA9799F1985

WESTOVER REMOTE SITE (Continued) **1010309713**

RAB: Not reported
NPL Status: Not Listed
Description: The Westover Remote Site is located near the intersection of Leverett Road and Peiham Hill Road in Shutesbury, Massachusetts. The United States acquired the site, consisting of approximately 68.39 acres leasehold, by purchase in February and March of 1957. The Air Force constructed a circular concrete TVOR pad with tower and an Emergency Power Unit Shelter (4x8) at the site and an associated underground fuel storage tank. Thirty-five wooden posts in a 100-foot radius around the TVOR pad were constructed to be used in conjunction with the TVOR facility to affect the transmission. The site was not under other than DOD control during the period of DOD ownership. The Air Force used the site until 1967; the leaseholds apparently were not extended beyond 30 June 1967. Only three of six lease documents are available to CENED. The three lease documents did not provide for restoration, but allowed the Government to remove improvements. The three leases granted the Government an easement to remove, clear, level, and cut trees, brushwood, and any other vegetation, and the right to prevent buildings or other structures over certain height. The three leases did not contain a recapture provision or restoration clause.
History: The site was known as Westover Terminal VHF Omni Range (TVOR) Facility. The Air Force used the site for a communication remote site
CTC: 25.5
Current Program: Not reported
Future Program: Not reported
Institutional ID: 59569

B3 **SHUTESBURY DPW YARD** **AST** **S108480863**
North **59 LEVERETT RD** **N/A**
< 1/8 **SHUTESBURY, MA 01072**
0.019 mi.
100 ft. **Site 1 of 3 in cluster B**

Relative: AST:
Lower
Actual: Facility ID: 22533
1174 ft. Name: SHUTESBURY DPW YARD
Address: 59 LEVERETT RD
City,State,Zip: SHUTESBURY, MA 01072
Owner ID: 9889
Owner Address: 1 COOLEYVILLE RD
Owner City: SHUTESBURY
Owner State: MA
Owner Zip: 01072
Owner Name: TOWN OF SHUTESBURY
Tank Type: Not reported
Class: Not reported
Stage I Type: Not reported
CARB # or System Type: Not reported
Test Cycle: Not reported
Date Form Mailed: Not reported
Test Date: Not reported
Postmark Date: Not reported
Due Date: Not reported
Product Type: Not reported
Vapor Type: Not reported
Form: Not reported

SHUTESBURY DPW YARD (Continued) **S108480863**

Form Rcvd and Complete:	Not reported
Description:	Town DPW Yard
Telephone:	(413) 259-1214
Fire Department:	11272
Date of Inspection:	Not reported
Inspector:	Not reported
Overfill Prevention:	Not reported
Tank ID:	1
Serial Number:	P549650
Spill Prevention:	Not reported
Tank Status:	In Use
Capacity:	1000
Contents:	Diesel
Tank Use:	MV
Tank Material:	Steel
Tank Construction:	2 Walls
Tank Leak Detection:	Inventory Record-Keeping
Pipe Material:	Steel
Pipe Construction:	1 Wall
Pipe Leak Detection:	Suction: Check Valve at Tank w/ Line Tightness
Aboveground:	Y

Facility ID:	22533
Name:	SHUTESBURY DPW YARD
Address:	59 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 01072
Owner ID:	9889
Owner Address:	1 COOLEYVILLE RD
Owner City:	SHUTESBURY
Owner State:	MA
Owner Zip:	01072
Owner Name:	TOWN OF SHUTESBURY
Tank Type:	Not reported
Class:	Not reported
Stage I Type:	Not reported
CARB # or System Type:	Not reported
Test Cycle:	Not reported
Date Form Mailed:	Not reported
Test Date:	Not reported
Postmark Date:	Not reported
Due Date:	Not reported
Product Type:	Not reported
Vapor Type:	Not reported
Form:	Not reported
Form Rcvd and Complete:	Not reported
Description:	Town DPW Yard
Telephone:	(413) 259-1214
Fire Department:	11272
Date of Inspection:	Not reported
Inspector:	Not reported
Overfill Prevention:	Not reported
Tank ID:	2
Serial Number:	#20931
Spill Prevention:	Not reported
Tank Status:	In Use
Capacity:	1000
Contents:	Gasoline

SHUTESBURY DPW YARD (Continued) **S108480863**

Tank Use:	MV
Tank Material:	Steel
Tank Construction:	2 Walls
Tank Leak Detection:	Inventory Record-Keeping
Pipe Material:	Steel
Pipe Construction:	1 Wall
Pipe Leak Detection:	Suction: Check Valve at Tank w/ Line Tightness
Aboveground:	Y

B4 **SHUTESBURY TOWN OF HIGHWAY DEPT** **RCRA NonGen / NLR** **1025885586**
North **59 LEVERETT RD** **MAR000569590**
< 1/8 **SHUTESBURY, MA 01072**
0.019 mi.
100 ft. **Site 2 of 3 in cluster B**

Relative: **Lower**

Actual: **1174 ft.**

RCRA Listings:

Date Form Received by Agency:		20191029
Handler Name:	SHUTESBURY TOWN OF HIGHWAY DEPT	
Handler Address:		59 LEVERETT RD
Handler City,State,Zip:		SHUTESBURY, MA 01072
EPA ID:		MAR000569590
Contact Name:		TIMOTHY HUNTING
Contact Address:		LEVERETT RD
Contact City,State,Zip:		SHUTESBURY, MA 01072
Contact Telephone:		413-259-1215
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		DPW SUPERINTENDENT
EPA Region:		01
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		State-specific Activities
State District Owner:		MA
State District:		WE
Mailing Address:		LEVERETT RD
Mailing City,State,Zip:		SHUTESBURY, MA 01072
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported

SHUTESBURY TOWN OF HIGHWAY DEPT (Continued) **1025885586**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	--Y
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20191029
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20191029
Handler Name:	SHUTESBURY TOWN OF HIGHWAY DEPT
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	MA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

SHUTESBURY TOWN OF HIGHWAY DEPT (Continued) **1025885586**

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20190515
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier: JFDMA
Evaluation Responsible Sub-Organization: WE
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

B5
North
< 1/8
0.019 mi.
100 ft.

SHUTESBURY DPW
59 LEVERETT RD
SHUTESBURY, MA 01072

Site 3 of 3 in cluster B

LUST
RELEASE
ASBESTOS
HW GEN

S108034611
N/A

Relative:
Lower

Actual:
1174 ft.

LUST:

Facility:

Name:	SHUTESBURY DPW
Address:	59 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 010720000
Current Status:	**Response Action Outcome**
Release Tracking Number/Current Status:	1-0016267 / RAO
Status Date:	11/15/2006
Source Type:	UST
Release Town:	SHUTESBURY
Notification Date:	07/18/2006
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	MUNICIPAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	Not reported

Actions:

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	11/15/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	11/15/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	11/20/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/18/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

SHUTESBURY DPW (Continued) **S108034611**

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	7/18/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	7/19/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	9/15/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	9/15/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	9/25/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Name:	SHUTESBURY DPW
Address:	59 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 010720000
Release Tracking Number/Current Status:	1-0016267 / RAO
Primary ID:	Not reported
Official City:	SHUTESBURY
Notification:	07/18/2006
Category:	72 HR
Status Date:	11/15/2006
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	11/15/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO

SHUTESBURY DPW (Continued) **S108034611**

Action Status: RAO Statement Received
Action Date: 11/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 11/20/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/18/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 7/18/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/19/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 9/25/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: GASOLINE
Quantity: Not reported
Location Type: MUNICIPAL
Source: UST

ASBESTOS:
Name: FORMER DPW GARAGE
Address: 59 LEVERETT ROAD

SHUTESBURY DPW (Continued) **S108034611**

City,State,Zip:	SHUTESBURY, MA
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	07/23/2021
End Date:	07/23/2021
Date Entered:	Not reported
Entry Date:	07/12/2021
Quantity Materical Removed SF:	0
Quantity Material Removed LF:	350
Project Description:	OTHER CAULK
AR Tracking ID:	368506
Super Lic Number:	AS070101
Monitor Lic Number:	AM000095
Lab Lic Number:	AA000117
Year:	2021
Sticker Number:	100349300
Form Type:	ANF-001
Fee Status:	EXEMPT
Facility Phone:	4132591214
Sub Town:	Not reported
Worksite:	EXTERIOR
Occupied:	0
Contractor:	AC000254
Contract Type:	WRITTEN
Hours:	7AM-5PM
Project Type:	Dem
Abatement Process:	oth:EXTERIOR NON-FRIABLE
Location:	OUTDOORS
Decon Process:	REMOTE AND OR CONTIGUOUS 3 STAGE DECONTAMINATION UNIT WITH SHOWER
Disposal Methods:	ACM ADEQUATELY WETTED, DOUBLE BAGGED, SEALED AND LABELED
Facility Usage:	FORMER DPW GARAGE
Waiver Given:	Not reported
DEP Waiver Number:	NOT APPLICABLE
DLWD Waiver Number:	N/A
Small Owner Occ:	0
Owner Name:	TOWN OF SHUTESBURY
Owner Address:	1 COOLEYVILLE ROAD
Owner City:	SHUTESBURY
Owner State:	MA
On Site Manager Name:	BECKY TORRES
On Site Manager Phone:	4132591214
Ins Comp:	N/A
Policy Number:	N/A
EXP Date:	9/1/2021
Facility Size:	2000
Transporter Name:	ABIDE INC.
Transporter Address:	P.O. BOX 886, 483 SHAKER ROAD
Transporter City:	EAST LONGMEADOW
Transporter State:	MA
Final Site:	Not reported
Certified Name:	MARIA TILLI
Cert Sign Date:	07/12/2021
Certified Company:	ABIDE INC.
Certified Phone:	4135250644
Entered_by:	MARIA

SHUTESBURY DPW (Continued) **S108034611**

HW GEN:

Name:	SHUTESBURY TOWN OF HIGHWAY DEPT
Address:	59 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 01072
EPA Id:	MAR000569590
RCRA Generator Status:	Not reported
State Generator Status:	VQG-MA

C6 NNE < 1/8 0.082 mi. 432 ft. **SHUTESBURY FIRE DEPT.** **SHWS S109146610**
42 LEVERETT RD **LUST N/A**
SHUTESBURY, MA 01072 **RELEASE**

Site 1 of 2 in cluster C

Relative: Lower

Actual: 1179 ft.

SHWS:

Name:	SHUTESBURY FIRE DEPT.
Address:	42 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 010720000
Facility ID:	1-0016996
Source Type:	TANK
Release Town:	SHUTESBURY
Notification Date:	06/03/2008
Category:	72 HR
Associated ID:	Not reported
Current Status:	TMPS
Status Date:	05/22/2018
Phase:	PHASE IV
Response Action Outcome:	TN
Oil Or Haz Material:	Oil

Name:	SHUTESBURY FIRE DEPT.
Address:	42 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 010720000
Facility ID:	1-0016996
Source Type:	FUELTANK
Release Town:	SHUTESBURY
Notification Date:	06/03/2008
Category:	72 HR
Associated ID:	Not reported
Current Status:	TMPS
Status Date:	05/22/2018
Phase:	PHASE IV
Response Action Outcome:	TN
Oil Or Haz Material:	Oil

LUST:

Facility:

Name:	SHUTESBURY FIRE DEPT.
Address:	42 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 010720000
Current Status:	**Temporary Solution**
Release Tracking Number/Current Status:	1-0016996 / TMPS
Status Date:	05/22/2018
Source Type:	USTOTHER
Release Town:	SHUTESBURY
Notification Date:	06/03/2008

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Category:	72 HR
Associated ID:	Not reported
Phase:	PHASE IV
Response Action Outcome:	TN - TN
Oil Or Haz Material:	Oil
Location Type:	MUNICIPAL
Source:	TANK
Source:	UST
Source:	USTOTHER
Source:	FUELTANK

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	277 parts per million

Actions:

Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	1/14/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	1/23/2014
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	1/23/2014
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/2/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	10/30/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/12/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/12/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Status: Modified Revised or Updated Plan Received
Action Date: 11/16/2015
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/16/2015
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/26/2013
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: RMRINI
Action Date: 11/9/2012
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/9/2012
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/1/2009
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/13/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/16/2014
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/2/2009
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/2/2009
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 12/22/2009
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 12/23/2014

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/3/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 12/4/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/4/2014
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/18/2011
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 2/22/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/9/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/15/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLFLD
Action Date: 3/19/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/25/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/4/2012
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/5/2010
Response Action Outcome: TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	4/6/2009
Response Action Outcome:	TN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	4/7/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	4/8/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	5/11/2012
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	5/11/2012
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Written Approval of Plan
Action Date:	5/15/2012
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	5/15/2019
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	5/22/2018
Response Action Outcome:	TN
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	5/22/2018
Response Action Outcome:	TN
Action Type:	Response Action Outcome - RAO
Action Status:	TSNRCD
Action Date:	5/22/2018
Response Action Outcome:	TN
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/22/2018
Response Action Outcome:	TN
Action Type:	Release Disposition
Action Status:	Release or TOR Less than Reporting Requirement

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date:	5/7/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	5/8/2008
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	Tier 1B Classification
Action Date:	6/1/2009
Response Action Outcome:	TN
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	6/1/2009
Response Action Outcome:	TN
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	6/1/2009
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	6/1/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	6/14/2012
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLFLD
Action Date:	6/23/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/26/2013
Response Action Outcome:	TN
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	6/27/2018
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/29/2017
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	6/3/2008
Response Action Outcome:	TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type:	RLFA
Action Status:	FLDDO
Action Date:	6/3/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	6/3/2008
Response Action Outcome:	TN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/3/2008
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	6/30/2009
Response Action Outcome:	TN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	6/5/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	7/16/2008
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	7/28/2008
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	7/8/2015
Response Action Outcome:	TN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/9/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO
Action Date:	8/10/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/10/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date:	8/11/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO
Action Date:	8/11/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/12/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO
Action Date:	8/12/2010
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	Written Approval of Plan
Action Date:	8/12/2015
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLFLD
Action Date:	8/13/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/13/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO
Action Date:	8/13/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	8/15/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/16/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/17/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/18/2010
Response Action Outcome:	TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type:	RLFA
Action Status:	FLDDO
Action Date:	8/18/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	8/19/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/19/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO
Action Date:	8/2/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/2/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/3/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/4/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/5/2010
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	8/5/2016
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/5/2016
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/6/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date: 8/9/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/16/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/17/2008
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Revised Statement or Transmittal Received
Action Date: 9/28/2009
Response Action Outcome: TN

Action Type: BWS01
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: TN

Facility:
Name: SHUTESBURY FIRE DEPT.
Address: 42 LEVERETT RD
City,State,Zip: SHUTESBURY, MA 010720000
Current Status: **Temporary Solution**
Release Tracking Number/Current Status: 1-0016996 / TMPS
Status Date: 05/22/2018
Source Type: UST
Release Town: SHUTESBURY
Notification Date: 06/03/2008
Category: 72 HR
Associated ID: Not reported
Phase: PHASE IV
Response Action Outcome: TN - TN
Oil Or Haz Material: Oil

Location Type: MUNICIPAL
Source: TANK
Source: UST
Source: USTOTHER
Source: FUELTANK

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: GASOLINE
Quantity: 277 parts per million

Actions:
Action Type: RLFA
Action Status: FLDRAN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date: 1/14/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 1/23/2014
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 1/23/2014
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Revised Statement or Transmittal Received
Action Date: 10/2/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/30/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/12/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/12/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 11/16/2015
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/16/2015
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/26/2013
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: RMRINI
Action Date: 11/9/2012
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/9/2012
Response Action Outcome: TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	12/1/2009
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/13/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/16/2014
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	12/2/2009
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	12/2/2009
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Written Approval of Plan
Action Date:	12/22/2009
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	12/23/2014
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	12/3/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	12/4/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	12/4/2014
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	2/18/2011
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Written Plan Received

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date:	2/22/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	2/9/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	3/15/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLFLD
Action Date:	3/19/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	3/25/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	4/4/2012
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	4/5/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	4/6/2009
Response Action Outcome:	TN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	4/7/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	4/8/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	5/11/2012
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	5/11/2012
Response Action Outcome:	TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 5/15/2012
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 5/15/2019
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 5/22/2018
Response Action Outcome: TN

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 5/22/2018
Response Action Outcome: TN

Action Type: Response Action Outcome - RAO
Action Status: TSNRCD
Action Date: 5/22/2018
Response Action Outcome: TN

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 5/22/2018
Response Action Outcome: TN

Action Type: Release Disposition
Action Status: Release or TOR Less than Reporting Requirement
Action Date: 5/7/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDD1A
Action Date: 5/8/2008
Response Action Outcome: TN

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 6/1/2009
Response Action Outcome: TN

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 6/1/2009
Response Action Outcome: TN

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 6/1/2009
Response Action Outcome: TN

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date: 6/1/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 6/14/2012
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLFLD
Action Date: 6/23/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/26/2013
Response Action Outcome: TN

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 6/27/2018
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/29/2017
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 6/3/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 6/3/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDD1A
Action Date: 6/3/2008
Response Action Outcome: TN

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/3/2008
Response Action Outcome: TN

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 6/30/2009
Response Action Outcome: TN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/5/2008
Response Action Outcome: TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type: RLFA
Action Status: FOLOFF
Action Date: 7/16/2008
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 7/28/2008
Response Action Outcome: TN

Action Type: Tier Classification
Action Status: TCEXT
Action Date: 7/8/2015
Response Action Outcome: TN

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/9/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/10/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/10/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/11/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/11/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/12/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/12/2010
Response Action Outcome: TN

Action Type: Tier Classification
Action Status: Written Approval of Plan
Action Date: 8/12/2015
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLFLD

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date: 8/13/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/13/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/13/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/15/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/16/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/17/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/18/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/18/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 8/19/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/19/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/2/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/2/2010
Response Action Outcome: TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/3/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/4/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/5/2010
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	8/5/2016
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/5/2016
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/6/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/9/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	9/16/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	9/17/2008
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Revised Statement or Transmittal Received
Action Date:	9/28/2009
Response Action Outcome:	TN
Action Type:	BWS01
Action Status:	APPROV
Action Date:	Not reported
Response Action Outcome:	TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Release:

Name:	SHUTESBURY FIRE DEPT.
Address:	42 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 010720000
Release Tracking Number/Current Status:	1-0016996 / TMPS
Primary ID:	Not reported
Official City:	SHUTESBURY
Notification:	06/03/2008
Category:	72 HR
Status Date:	05/22/2018
Phase:	PHASE IV
Response Action Outcome:	TN - TN
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	1/14/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	1/23/2014
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	1/23/2014
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/2/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	10/30/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/12/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/12/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	11/16/2015
Response Action Outcome:	TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/16/2015
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/26/2013
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: RMRINI
Action Date: 11/9/2012
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/9/2012
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/1/2009
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/13/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/16/2014
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/2/2009
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/2/2009
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 12/22/2009
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 12/23/2014
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date: 12/3/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 12/4/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/4/2014
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/18/2011
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 2/22/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/9/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/15/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLFLD
Action Date: 3/19/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/25/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/4/2012
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/5/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 4/6/2009
Response Action Outcome: TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 4/7/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 4/8/2010
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 5/11/2012
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 5/11/2012
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 5/15/2012
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 5/15/2019
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 5/22/2018
Response Action Outcome: TN

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 5/22/2018
Response Action Outcome: TN

Action Type: Response Action Outcome - RAO
Action Status: TSNRCD
Action Date: 5/22/2018
Response Action Outcome: TN

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 5/22/2018
Response Action Outcome: TN

Action Type: Release Disposition
Action Status: Release or TOR Less than Reporting Requirement
Action Date: 5/7/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDD1A

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date:	5/8/2008
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	Tier 1B Classification
Action Date:	6/1/2009
Response Action Outcome:	TN
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	6/1/2009
Response Action Outcome:	TN
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	6/1/2009
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	6/1/2009
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	6/14/2012
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLFLD
Action Date:	6/23/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/26/2013
Response Action Outcome:	TN
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	6/27/2018
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/29/2017
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	6/3/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO
Action Date:	6/3/2008
Response Action Outcome:	TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	6/3/2008
Response Action Outcome:	TN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/3/2008
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	6/30/2009
Response Action Outcome:	TN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	6/5/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	7/16/2008
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	7/28/2008
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	7/8/2015
Response Action Outcome:	TN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/9/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO
Action Date:	8/10/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/10/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/11/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date: 8/11/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/12/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/12/2010
Response Action Outcome: TN

Action Type: Tier Classification
Action Status: Written Approval of Plan
Action Date: 8/12/2015
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLFLD
Action Date: 8/13/2009
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/13/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/13/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/15/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/16/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/17/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/18/2010
Response Action Outcome: TN

Action Type: RLFA
Action Status: FLDDO
Action Date: 8/18/2010
Response Action Outcome: TN

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	8/19/2008
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/19/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDDO
Action Date:	8/2/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/2/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/3/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/4/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/5/2010
Response Action Outcome:	TN
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	8/5/2016
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/5/2016
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/6/2010
Response Action Outcome:	TN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	8/9/2010
Response Action Outcome:	TN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received

SHUTESBURY FIRE DEPT. (Continued) **S109146610**

Action Date: 9/16/2008
Response Action Outcome: TN

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/17/2008
Response Action Outcome: TN

Action Type: Immediate Response Action
Action Status: Revised Statement or Transmittal Received
Action Date: 9/28/2009
Response Action Outcome: TN

Action Type: BWS01
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: TN

Chemicals:
Chemical: GASOLINE
Quantity: 277 parts per million
Location Type: MUNICIPAL
Source: TANK
Source: UST
Source: USTOTHER
Source: FUELTANK

C7 **VEGETATION CONTROL SERVICE INC** **UST** **1000223704**
NNE **LEVERETTE RD** **RCRA NonGen / NLR** **MAD002543841**
< 1/8 **SHUTESBURY, MA 01072**
0.103 mi.
545 ft. **Site 2 of 2 in cluster C**

Relative: Lower
Actual: 1180 ft.

UST:

Facility:
Name: VEGETATION CONTROL SERVICE
Address: 46 LEVERETT RD
City,State,Zip: SHUTESBURY, MA 01072
Facility ID: 6270
Owner Id: 3800
Owner: VEGETATION CONTROL SERVICE
Owner Address: 46 LEVERETT RD
Owner City,St,Zip: SHUTESBURY, MA 01072
Telephone: Not reported
Description: Commercial
Facility address 2: Not reported
Owner address 2: Not reported
Latitude: 42.45154
Longitude: -72.41437
Contact name: Not reported
Contact address1: Not reported
Contact address2: Not reported
Contact city: Not reported
Contact state: Not reported
Contact zip: Not reported
Contact email: Not reported
Update: 1991-12-12 00:00:00

VEGETATION CONTROL SERVICE INC (Continued) **1000223704**

Update by: Not reported
Fac status: CLOSED

Tank ID: 1
Tank Status: Tank Removed
Status Date: 12/12/1991
Date Installed: 05/29/1977
Capacity: 1000.00000
Contents: Gasoline
Tank Usage: Not reported
Tank Leak Detection: Not reported
Pipe Leak Detection: Not reported
Latitude: Not reported
Longitude: Not reported
Tank construct: Not reported
Pipe construct: Not reported
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Not reported
Leak corrosion type: Not reported

Tank ID: 2
Tank Status: Tank Removed
Status Date: 12/12/1991
Date Installed: 05/29/1966
Capacity: 2000.00000
Contents: Diesel
Tank Usage: Not reported
Tank Leak Detection: Not reported
Pipe Leak Detection: Not reported
Latitude: Not reported
Longitude: Not reported
Tank construct: Not reported
Pipe construct: Not reported
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N

VEGETATION CONTROL SERVICE INC (Continued) **1000223704**

Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Not reported
Leak corrosion type: Not reported

RCRA Listings:

Date Form Received by Agency:	19800818
Handler Name:	VEGETATION CONTROL SERVICE INC
Handler Address:	LEVERETTE RD
Handler City,State,Zip:	SHUTESBURY, MA 01072
EPA ID:	MAD002543841
Contact Name:	LAUREY KENERSON
Contact Address:	LEVERETTE RD
Contact City,State,Zip:	SHUTESBURY, MA 01072
Contact Telephone:	413-253-7514
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	01
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	MA
State District:	W
Mailing Address:	LEVERETTE RD
Mailing City,State,Zip:	SHUTESBURY, MA 01072
Owner Name:	VEGETATION CONTROL SERVICE INC
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN

VEGETATION CONTROL SERVICE INC (Continued) **1000223704**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20171020
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	U011
Waste Description:	1H-1,2,4-TRIAZOL-3-AMINE (OR) AMITROLE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	VEGETATION CONTROL SERVICE INC
Legal Status:	Private
Date Became Current:	20041016
Date Ended Current:	Not reported
Owner/Operator Address:	LEVERETTE RD
Owner/Operator City,State,Zip:	SHUTESBURY, MA 01072
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

VEGETATION CONTROL SERVICE INC (Continued) **1000223704**

Historic Generators:
Receive Date: 19800818
Handler Name: VEGETATION CONTROL SERVICE INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: MA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800818
Handler Name: VEGETATION CONTROL SERVICE INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: MA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 11531
NAICS Description: SUPPORT ACTIVITIES FOR FORESTRY

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported

VEGETATION CONTROL SERVICE INC (Continued) **1000223704**

Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19831201
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	WE
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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8 **ALBERT BERGONZI** **UST** **U003531109**
NW **113 LEVERETT RD** **N/A**
1/8-1/4 **SHUTESBURY, MA 01072**
0.158 mi.
836 ft.

Relative: **Lower**

Actual: **1145 ft.**

UST:

Facility:

Name:	ALBERT BERGONZI
Address:	113 LEVERETT RD
City,State,Zip:	SHUTESBURY, MA 01072
Facility ID:	1201
Owner Id:	511
Owner:	ALBERT BERGONZI
Owner Address:	113 LEVERETT RD
Owner City,St,Zip:	SHUTESBURY, MA 01072
Telephone:	Not reported
Description:	Not reported
Facility address 2:	Not reported
Owner address 2:	Not reported
Latitude:	42.45131
Longitude:	-72.42017
Contact name:	Not reported
Contact address1:	Not reported
Contact address2:	Not reported
Contact city:	Not reported
Contact state:	Not reported

ALBERT BERGONZI (Continued) **U003531109**

Contact zip: Not reported
Contact email: Not reported
Update: 1998-11-24 00:00:00
Update by: Not reported
Fac status: CLOSED

Tank ID: 1
Tank Status: Tank Removed
Status Date: 10/28/1997
Date Installed: Not reported
Capacity: 1000.00000
Contents: Gasoline
Tank Usage: Not reported
Tank Leak Detection: Not reported
Pipe Leak Detection: Not reported
Latitude: Not reported
Longitude: Not reported
Tank construct: Not reported
Pipe construct: Not reported
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N
Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Not reported
Leak corrosion type: Not reported

Tank ID: 2
Tank Status: Tank Removed
Status Date: 10/28/1997
Date Installed: Not reported
Capacity: 2000.00000
Contents: Gasoline
Tank Usage: Not reported
Tank Leak Detection: Not reported
Pipe Leak Detection: Not reported
Latitude: Not reported
Longitude: Not reported
Tank construct: Not reported
Pipe construct: Not reported
Ptype: Not reported
Number of compartment: Not reported
Pipe install date: Not reported
Pipe leak install date: Not reported
Submersible sump: N

ALBERT BERGONZI (Continued) **U003531109**

Submersible sump install date: Not reported
Turbine sump: N
Turbine sump sensor: N
Intermediate sump: N
Intermediate sump sensor: N
Spill bucket installed date: Not reported
Spill bucket sensor: N
Overfill protect install: Not reported
Overfill protect type: Not reported
Automatic line leak detect: Not reported
Tank corrosion type: Not reported
Leak corrosion type: Not reported

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9 **TRASH TRUCK HYDRAULIC OIL RELEASE** **SHWS** **S126024341**
SW **93 LEONARD ROAD** **RELEASE** **N/A**
1/2-1 **SHUTESBURY, MA**
0.959 mi.
5063 ft.

Relative:
Lower

Actual:
1146 ft.

SHWS:

Name:	TRASH TRUCK HYDRAULIC OIL RELEASE
Address:	93 LEONARD ROAD
City,State,Zip:	SHUTESBURY, MA
Facility ID:	1-0021056
Source Type:	LINE
Release Town:	SHUTESBURY
Notification Date:	03/06/2020
Category:	TWO HR
Associated ID:	Not reported
Current Status:	PSNC
Status Date:	05/01/2020
Phase:	Not reported
Response Action Outcome:	PN
Oil Or Haz Material:	Not reported

Release:

Name:	TRASH TRUCK HYDRAULIC OIL RELEASE
Address:	93 LEONARD ROAD
City,State,Zip:	SHUTESBURY, MA
Release Tracking Number/Current Status:	1-0021056 / PSNC
Primary ID:	Not reported
Official City:	SHUTESBURY
Notification:	03/06/2020
Category:	TWO HR
Status Date:	05/01/2020
Phase:	Not reported
Response Action Outcome:	PN - PN
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/6/2020
Response Action Outcome:	PN

TRASH TRUCK HYDRAULIC OIL RELEASE (Continued) **S126024341**

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 3/6/2020
Response Action Outcome: PN

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/6/2020
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/6/2020
Response Action Outcome: PN

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/1/2020
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO
Action Status: PSNRCD
Action Date: 5/1/2020
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 9/17/2020
Response Action Outcome: PN

Chemicals:
Chemical: Not reported
Quantity: Not reported
Location Type: ROADWAY
Location Type: MUNICIPAL
Location Type: RESIDNTIAL
Source: LINE

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AMHERST	S103810878	POLE 71/10	LEVERETT RD NEAR PULPIT HL		SHWS, RELEASE
SHUTESBURY	S109489675	POLE #11	LEONARD RD		SHWS, RELEASE
SHUTESBURY	S128645414	KOLASINSKI DUMP	0 WENDELL ROAD	01072	SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 08/25/2022
Date Data Arrived at EDR: 09/06/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/16/2022
Date Data Arrived at EDR: 08/22/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/15/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/15/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/12/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 12/19/2022
Number of Days to Update: 5

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 10/03/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 73

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

LF PROFILES: Landfill Profiles Listing

This spreadsheet describes landfills that have actively accepted waste or have closed under MassDEP Solid Waste Regulations first adopted in 1971 (310 CMR 16.00 and 310 CMR 19.00). The list does not include landfills that closed before 1971 (and which never had a MassDEP permit or approval), or for which agency data is incomplete.

Date of Government Version: 07/01/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 48

Source: Department of Environmental Protection
Telephone: 617-292-5868
Last EDR Contact: 12/29/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/02/2022
Date Data Arrived at EDR: 05/03/2022
Date Made Active in Reports: 07/22/2022
Number of Days to Update: 80

Source: Department of Environmental Protection
Telephone: 617-292-5989
Last EDR Contact: 12/29/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 10/03/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 73

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Sites
Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 10/03/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 73
Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/12/2022
Date Data Arrived at EDR: 07/14/2022
Date Made Active in Reports: 09/27/2022
Number of Days to Update: 75
Source: Department of Fire Services, Office of the Public Safety
Telephone: 617-556-1035
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

AST 2: Aboveground Storage Tanks
Aboveground storage tanks

Date of Government Version: 10/06/2022
Date Data Arrived at EDR: 10/06/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 77
Source: Department of Fire Services
Telephone: 978-567-3181
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

AST: Aboveground Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 09/21/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/27/2022
Number of Days to Update: 81
Source: Department of Public Safety
Telephone: 617-556-1035
Last EDR Contact: 10/07/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: No Update Planned

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites With Activity and Use Limitation

Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 10/03/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 73

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Completed Brownfields Covenants Listing

Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/10/2017
Number of Days to Update: 68

Source: Office of the Attorney General
Telephone: 617-963-2423
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Annually

BROWNFIELDS 2: Potential Brownfields Listing
A listing of potential brownfields site locations in the state.

Date of Government Version: 12/03/2019
Date Data Arrived at EDR: 01/29/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 82
Source: Department of Environmental Protection
Telephone: 617-556-1007
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/07/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/20/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Quarterly

Local Land Records

LIENS: Liens Information Listing

A listing of environmental liens.

Date of Government Version: 03/07/2018
Date Data Arrived at EDR: 03/09/2018
Date Made Active in Reports: 06/21/2018
Number of Days to Update: 104

Source: Department of Environmental Protection
Telephone: 617-292-5628
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 11

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993
Date Data Arrived at EDR: 12/03/2003
Date Made Active in Reports: 12/31/2003
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 617-292-5720
Last EDR Contact: 12/03/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 10/03/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 73

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 36

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/05/2013
Number of Days to Update: 61

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/13/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/03/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/20/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/16/2023
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/16/2023
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/12/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/18/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/27/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 02/16/2023
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/26/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 13

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/23/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/03/2022
Next Scheduled EDR Contact: 02/13/2023
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/24/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2022
Date Data Arrived at EDR: 07/21/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 71

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 10/27/2022
Next Scheduled EDR Contact: 02/16/2023
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/09/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/29/2022
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 22

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/17/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/21/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/21/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/13/2022
Date Data Arrived at EDR: 09/14/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 82

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 60

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 11/29/2022
Next Scheduled EDR Contact: 03/13/2023
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/25/2022
Date Data Arrived at EDR: 09/30/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/15/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 07/08/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 123

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 10/26/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS: PFAS Contaminated Sites Listing

Detection of Per- and Polyfluoroalkyl Substances (PFAS) in drinking water.

Date of Government Version: 06/24/2022
Date Data Arrived at EDR: 06/28/2022
Date Made Active in Reports: 09/12/2022
Number of Days to Update: 76

Source: Department of Environmental Protection
Telephone: 617-292-6770
Last EDR Contact: 12/12/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 10/06/2022
Date Data Arrived at EDR: 10/06/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 77

Source: Department of Environmental Protection
Telephone: 617-292-5789
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 08/24/2022
Date Made Active in Reports: 09/06/2022
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 617-292-5982
Last EDR Contact: 11/08/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 07/12/2022
Date Data Arrived at EDR: 07/14/2022
Date Made Active in Reports: 09/27/2022
Number of Days to Update: 75

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Action Cases

A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 07/19/2022
Date Data Arrived at EDR: 07/20/2022
Date Made Active in Reports: 07/27/2022
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/03/2011
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 11/30/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 07/12/2022
Date Data Arrived at EDR: 07/14/2022
Date Made Active in Reports: 09/27/2022
Number of Days to Update: 75

Source: Office of State Fire Marshal
Telephone: 978-567-3100
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 01/16/2018
Date Data Arrived at EDR: 04/17/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 59

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 12/29/2021
Date Data Arrived at EDR: 01/25/2022
Date Made Active in Reports: 04/18/2022
Number of Days to Update: 83

Source: MassGIS
Telephone: 617-556-1150
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 09/15/2022
Date Data Arrived at EDR: 09/20/2022
Date Made Active in Reports: 12/07/2022
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Semi-Annually

MERCURY: Mercury Product Recyling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 09/26/2022
Date Data Arrived at EDR: 09/26/2022
Date Made Active in Reports: 12/09/2022
Number of Days to Update: 74

Source: Department of Environmental Protection
Telephone: 617-292-5632
Last EDR Contact: 11/23/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Varies

NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 01/07/2020
Date Data Arrived at EDR: 02/11/2020
Date Made Active in Reports: 04/21/2020
Number of Days to Update: 70

Source: Department of Environmental Protection
Telephone: 508-767-2781
Last EDR Contact: 11/10/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 29

Source: Massachusetts Emergency Management Agency
Telephone: 508-820-2019
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Annually

TSD: TSD Facility

List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 09/15/2022
Date Data Arrived at EDR: 09/20/2022
Date Made Active in Reports: 12/07/2022
Number of Days to Update: 78

Source: Department of Environmental Protection
Telephone: 617-292-5580
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

UIC: Underground Injection Control Listing

A list of UIC registration data and their locations

Date of Government Version: 03/10/2022
Date Data Arrived at EDR: 03/15/2022
Date Made Active in Reports: 06/10/2022
Number of Days to Update: 87

Source: Department of Environmental Protection
Telephone: 617-566-1172
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/22/2022
Next Scheduled EDR Contact: 03/06/2023
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/08/2022
Date Made Active in Reports: 10/21/2022
Number of Days to Update: 74

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/16/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 12/20/2022
Next Scheduled EDR Contact: 02/27/2023
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/01/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

66 LEVERETT ROAD
66 LEVERETT ROAD
SHUTESBURY, MA 01072

TARGET PROPERTY COORDINATES

Latitude (North):	42.447711 - 42ˆ 26’ 51.76’’
Longitude (West):	72.416233 - 72ˆ 24’ 58.44’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	712487.4
UTM Y (Meters):	4702507.5
Elevation:	1191 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	11747345 SHUTESBURY, MA
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

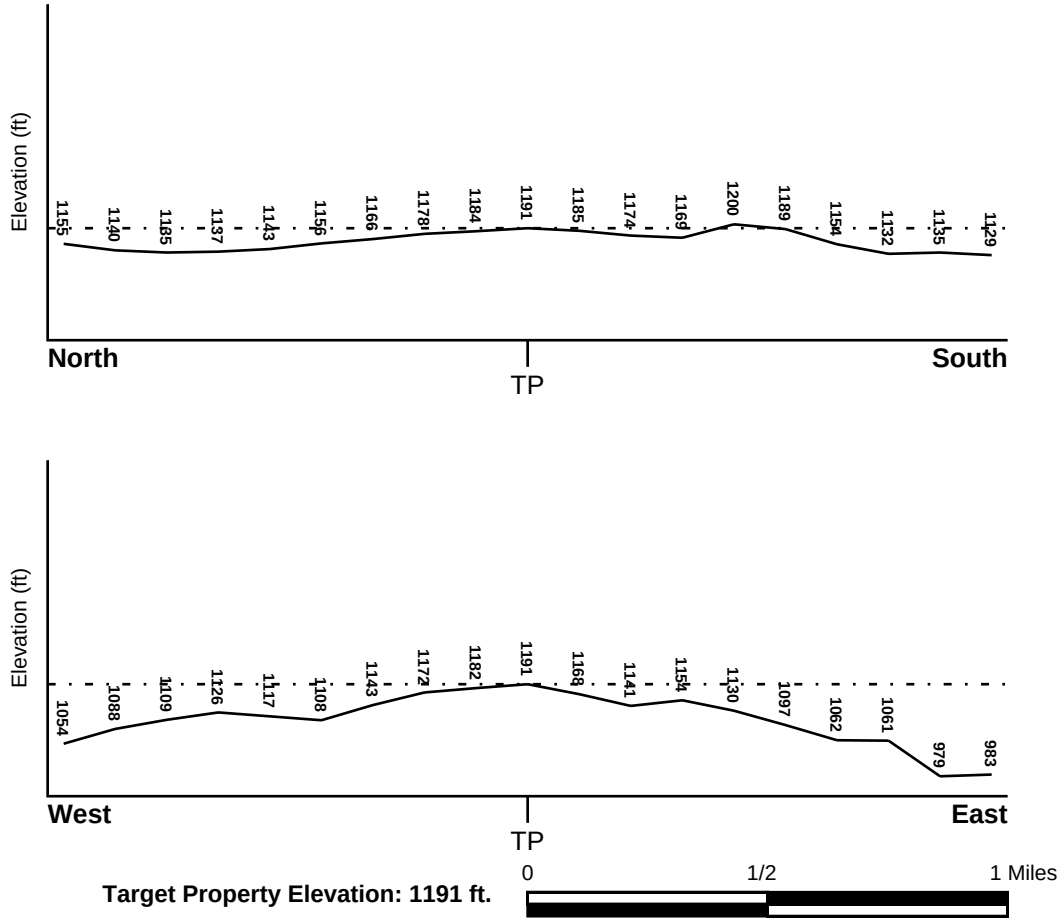
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 1191 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
Not Reported	

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SHUTESBURY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovian
Series:	Lower Paleozoic granitic rocks
Code:	Pzg1 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	MONTAUK
Soil Surface Texture:	extremely stony - sandy loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	2 inches	extremely stony - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 3.60
2	2 inches	27 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 3.60
3	27 inches	72 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 0.60 Min: 0.06	Max: 6.00 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: extremely stony - fine sandy loam
muck
unweathered bedrock
very stony - fine sandy loam
sandy loam

Surficial Soil Types: extremely stony - fine sandy loam
muck
unweathered bedrock
very stony - fine sandy loam
sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: gravelly - loamy sand
loamy sand
sand
unweathered bedrock
sapric material
very gravelly - loamy coarse sand
fine sandy loam
stratified

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000474263	1/2 - 1 Mile SSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

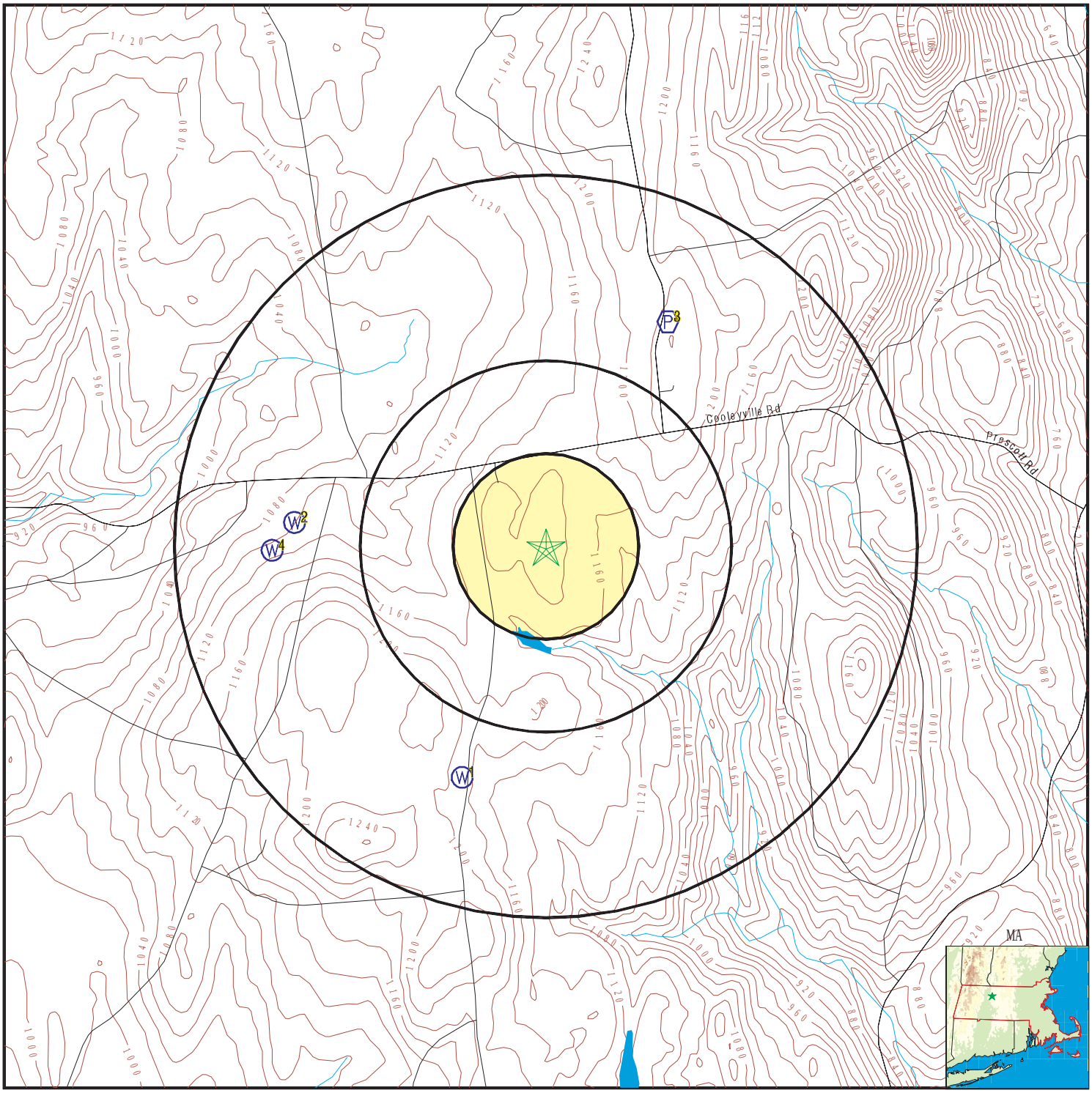
MAP ID	WELL ID	LOCATION FROM TP
3	MA1272001	1/2 - 1 Mile NNE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	MA9000000000161	1/2 - 1 Mile West
4	MA9000000001380	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 7221882.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

- Potentially Productive Aquifers
- Not Potentially Productive Aquifers
- DEP Approved Zone IIs
- EPA Designated Sole Src. Aq.

SITE NAME:	66 Leverett Road	CLIENT:	Fuss & O Neill
ADDRESS:	66 Leverett Road Shutesbury MA 01072	CONTACT:	Clifford Otis
		INQUIRY #:	7221882.2s
LAT/LONG:	42.447711 / 72.416233	DATE:	January 10, 2023 4:54 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000474263**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SOW 12	Type:	Well
Description:	Not Reported	HUC:	01080204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19720606
Well Depth:	125	Well Depth Units:	ft
Well Hole Depth:	125	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1972-06-06
Feet below surface:	30.00	Feet to sea level:	Not Reported
Note:	Not Reported		

2
West
1/2 - 1 Mile
Lower

MA WELLS **MA9000000000161**

PWS ID:	1272002	Site Name:	SHUTESBURY ELEMENTARY SCHOOL
Type:	Non-Transient Non-Community		
Facility Name:	Not Reported	SubBasin:	CONNECTICUT
Basemap:	DOQ	Accuracy Estimate (ft):	100
Feature Type:	PH	Location Method:	PHO
Primary Location Source:	AP_DOQ	Secondary Location Source:	SV
Tertiary Location Source:	Not Reported		
Source ID:	1272002-01G	PWS Name:	SHUTESBURY ELEMENTARY SCHOOL
Source Name:	WELL 1	PWS Status:	A
Source Status:	A	PWS Class:	NTNC
Source Availability:	EMERG		

3
NNE
1/2 - 1 Mile
Higher

FRDS PWS **MA1272001**

Epa region:	01	State:	MA
Pwsid:	MA1272001	Pwsname:	DCR C A HOLMES RECREATION AREA
Cityserved:	Not Reported	Stateserved:	MA
Zipserved:	Not Reported	Fipscounty:	25011
Status:	Active	Retpopsrvd:	200
Pwssvcconn:	2	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	State_Govt
Contact:	WILLIAM J BARTON	Contactorgname:	DCR C A HOLMES RECREATION AREA
Contactphone:	4135455993	Contactaddress1:	40 COLD STORAGE DRIVE
Contactaddress2:	PO BOX 484	Contactcity:	AMHERST

Contactstate:	MA	Contactzip:	01004
Pwsactivitycode:	A		
PWS ID:	MA1272001	PWS type:	Mailing
PWS name:	LAKE WYOLA PARK	PWS address:	LAKE WYOLA PARK & CAMPGROUND
PWS city:	SHUTESBURY	PWS state:	MA
PWS zip:	010720000	PWS name:	DCR C A HOLMES RECREATION AREA
PWS type code:	NC	Retail population served:	200
Contact:	WILLIAM J BARTON	Contact address:	40 COLD STORAGE DRIVE
Contact address:	PO BOX 484	Contact city:	AMHERST
Contact state:	MA	Contact zip:	01004
Contact telephone:	4135455993		
PWS ID:	MA1272001	Activity status:	Active
Date system activated:	9003	Date system deactivated:	Not Reported
Retail population:	00000035	System name:	LAKE WYOLA PARK
System address:	LAKE WYOLA PARK & CAMPGROUND		
System city:	SHUTESBURY	System state:	MA
System zip:	010720000		
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	422723	Longitude:	0722437
Violation id:	00V0001	Orig code:	S
State:	MA	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	21	Violation name:	MCL, Acute (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2000
Cmp edt:	07/31/2000		
Violation id:	1	Orig code:	S
State:	MA	Violation Year:	2013
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2013
Cmp edt:	10/31/2013		
Violation id:	2	Orig code:	S
State:	MA	Violation Year:	2013
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2013
Cmp edt:	12/31/2013		
Violation ID:	00V0001	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	07/11/2000
Enforcement Detail:	St Boil Water Order	Enforcement Category:	Informal
Violation ID:	2	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/27/2014
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	Not Reported	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	08/14/2000

Enforcement Detail:	St AO (w/o penalty) issued
Enforcement Category:	Not Reported

PWS name:	DCR C A HOLMES RECREATION AREA		
Population served:	200	PWS type code:	NC
Violation ID:	00V0001	Contaminant:	COLIFORM (TCR)
Violation type:	Max Contaminant Level, Acute (TCR)		
Compliance start date:	7/1/2000 0:00:00	Compliance end date:	7/31/2000 0:00:00
Enforcement date:	7/11/2000 0:00:00	Enforcement action:	State Boil Water Order
Violation measurement:	0		

4
West
1/2 - 1 Mile
Lower

MA WELLS **MA9000000001380**

PWS ID:	1272002	Site Name:	SHUTESBURY ELEMENTARY SCHOOL
Type:	Non-Transient Non-Community		
Facility Name:	Not Reported	SubBasin:	CONNECTICUT

Basemap:	DOQ	Accuracy Estimate (ft):	100
Feature Type:	PH	Location Method:	PHO
Primary Location Source:	AP_DOQ	Secondary Location Source:	SV
Tertiary Location Source:	Not Reported		

Source ID:	1272002-02G	PWS Name:	SHUTESBURY ELEMENTARY SCHOOL
Source Name:	WELL 2	PWS Status:	A
Source Status:	A	PWS Class:	NTNC
Source Availability:	ACTIVE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MA Radon

Radon Test Results

County	% of sites>4 pCi/L	Median
FRANKLIN	23	1.6

Federal EPA Radon Zone for FRANKLIN County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 01072

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.750 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Massachusetts Geographic Information System (MassGIS) Datalayers
Source: Executive Office of Environmental Affairs
Telephone:

Public Water Supply Database

Telephone:
The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

Areas of Critical Environmental Concern

Telephone:
The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

EPA Designated Sole Source Aquifers

Telephone:
The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by an EPA hydrogeologist.

Aquifers

Telephone:
MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

Non-Potential Drinking Water Source Areas

Telephone:
Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

DEP Approved Zone IIs

Telephone:
The Department of Environmental Protection (DEP) approved Zone IIs datalayer was compiled by the DEP Division of Water Supply (DWS). The database contains 281 approved Zone IIs statewide. As stated in 310 CMR 22.02, a Zone II is 'that area of an aquifer which contributes water to a well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield, with no recharge from precipitation.) It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. In some cases, streams or lakes may act as recharge boundaries. In all cases, Zone IIs shall extend up gradient to its point of intersection with prevailing hydrogeologic boundaries (a groundwater flow divide, a contact with till or bedrock, or a recharge boundary).' These data are used in association with the Public Water Supplies datalayer. The following describes certain unique features of this association.\n - Any proposed new well which will pump at least 100,000 gallons per day must have a Zone II delineation completed and approved by DEP prior to the well coming on line. \n- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.\n - Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

OTHER STATE DATABASE INFORMATION

RADON

State Database: MA Radon
Source: Department of Health
Telephone: 413-586-7525
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

Appendix C

MassDEP Radii Map

MassDEP - Bureau of Waste Site Cleanup

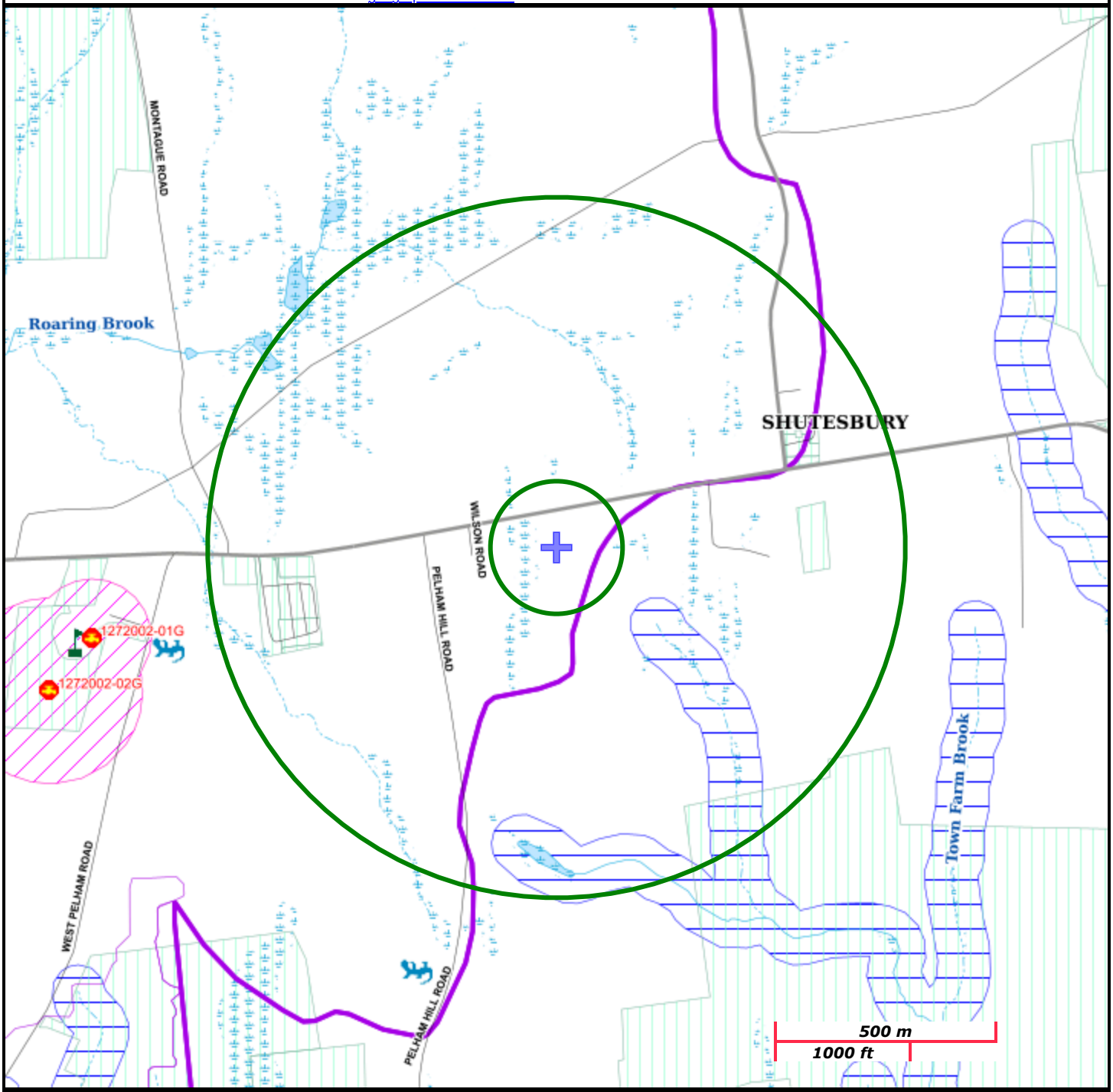
Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
SHUTESBURY PUBLIC LIBRARY
66 LEVERETT ROAD SHUTESBURY, MA

NAD83 UTM Meters:
4703033mN , 712454mE (Zone: 18)
March 11, 2024

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: https://www.mass.gov/orgs/massgis-bureau-of-geographic-information.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

NHESP Pri-Hab of Rare Species; Vernal Pool: Cert., Potential

Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

Appendix D

Notice of Determination and Conditional Approval

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Maura T. Healey
Governor

Kimberley Driscoll
Lieutenant Governor

Rebecca L. Tepper
Secretary

Bonnie Heiple
Commissioner

March 18, 2024

SENT VIA ELECTRONIC MAIL:
library.director@shutesbury.org

Town of Shutesbury
1 Cooleyville Road
Shutesbury, MA 01072
Attn: MaryAnne Antonellis, Library Director

Re: Shutesbury – DWP
Shutesbury Public Library
66 Leverett Road
Proposed Groundwater Source
Site Exam and Pump Test Approval

Dear Ms. Antonellis:

Please find attached the following information concerning:

- Notice of Decision - Site Exam & Pumping Test (Conditional Approval)

The signature on this cover letter indicates formal issuance of the attached document. If you have any questions, please contact Christine Simard at Christine.Simard@mass.gov or 857-248-2081.

Respectfully,

Andrew Kelly, Section Chief
Drinking Water Program
Bureau of Water Resources

Enclosure: Notice of Decision

ecc: Rebecca Torres – Shutesbury Town Administrator
Shutesbury Board of Health
Matthew Kissane – Fuss & O'Neill, Inc.
Bruce Bouck – MassDEP Boston DWP
Christine Simard, Jim Gibbs – MassDEP WERO DWP

DEP WERO\BWR\WS\Permits\NSA\Shutesbury\Shutesbury Library\ShutesburyLibrary-2024-03-18-LTR-SEandPT CondApvl.docx

Notice of Decision
Site Exam and Pumping Test (Conditional Approval)
Shutesbury Public Library - Shutesbury, MA
March 18, 2024

On February 27, 2024, the Massachusetts Department of Environmental Protection (MassDEP) Drinking Water Program (DWP) received electronic correspondence from Fuss & O'Neill, Inc., on behalf of the Town of Shutesbury, requesting a site exam for a proposed groundwater source to serve the Shutesbury Public Library planned for construction at 66 Leverett Road in Shutesbury, Massachusetts. A site exam and pre-BRP WS 37 permit submittal is required for proposed sources at transient non-community (TNC) Public Water Systems (PWS) with planned yields less than 10,000 gallons per day (GPD), in accordance with MassDEP's Guidelines for PWS, Chapter 4: Groundwater Supply Development and the Source Approval Process (Chapter 4 Guidelines).

Background Information

The proposed PWS well site is located at 66 Leverett Road, a 20.2-acre parcel owned by the Town of Shutesbury since 2004 and identified as Parcel #O-32. The site parcel is currently vacant and comprised primarily of vegetated woodland. The northern portion of the site parcel was formerly improved with a two-story residential building and a three-bay garage. The residential building was demolished in May 2005 and the garage was demolished in August 2021. The southern portion of the site parcel was formerly improved with an Air Force Terminal Very High Frequency Omni-Directional Range (TVOR) facility including a radio tower.

Proposal and Site Visit Summary

On March 6, 2024, a visit to the proposed PWS well site was conducted by Christine Simard of MassDEP, Matthew Kissane of Fuss & O'Neill, and MaryAnne Antonellis and Penny Jacques as representatives of the Town of Shutesbury. MassDEP was provided with Site Utility Plan for the proposed Shutesbury Public Library during the site visit.

The Town of Shutesbury requests an approvable yield of 1,000 GPD [0.7 gallons per minute (GPM) over a 24-hour period] for the proposed PWS well based on expected water demand and the Title 5 wastewater design flows for the new library. Potable water service at the new library is planned for three bathrooms, a kitchenette sink, and a water bubbler. According to the Site Utility Plan, the septic system and stormwater management components are located outside the 100-foot Zone I.

<u>Well Site and Construction</u>

The well site is within a forested area of the site parcel and several trees will be cleared around the well site prior to initiating construction. The well shall be installed into bedrock by Massachusetts-certified well driller and will be constructed in accordance with the Chapter 4 Guidelines. During the site exam, it was noted that private drinking water wells in the area vary in depth between 100 and 500 feet.

Wetlands on the site parcel have been delineated and the Town of Shutesbury Conservation Commission has issued an Order of Conditions for the proposed site work under the Wetlands Protection Act.

The site parcel includes a major watershed boundary between the Chicopee River Basin and Connecticut River Basin. The proposed PWS well and Zone I area on the northern portion of the site parcel lies within the

Connecticut River Basin. The southern portion of the site parcel that lies within the Chicopee River Basin is a mapped as a Zone C surface water protection area of Quabbin Reservoir, a surface water source for the Massachusetts Water Resources Authority (PWS ID# 6000000).

Wellhead Protection

An approvable well yield of 1,000 GPD corresponds to a 100-foot Zone I wellhead protection radius and 422-foot Interim Wellhead Protection Area (IWPA) radius from the proposed PWS well. The entire 100-foot Zone I lies within the site parcel owned by the Town of Shutesbury. The 422-foot IWPA includes portions of residential properties to the west and east of the site parcel. The surrounding residential properties have private drinking water wells and septic systems. The nearest active PWS well is located at the Shutesbury Elementary School (PWS ID# 1272002) approximately 3,500 feet west of the site parcel.

According to MassDEP records, one release site, assigned Release Tracking Number (RTN) 1-21340, extends into the IWPA of the proposed PWS well, on the northern portion of the site parcel. Two additional RTNs, 1-16267 and 1-21489, are in located in close proximity to the IWPA.

RTN 1-21340

On June 22, 2021, MassDEP was notified by the University of Massachusetts Amherst of the detection of elevated concentrations of Per- and Polyfluoroalkyl Substances (PFAS) in potable water wells on and around Leverett Road. RTN 1-21340 was assigned to the condition on June 23, 2021, and a PFAS investigation was initiated by MassDEP. Concentrations of PFAS6 (the sum of six regulated PFAS compounds) have been detected above MassDEP's Maximum Contaminant Level (MCL) of 20 nanograms per liter (ng/L). Point-of-Entry Treatment (POET) systems have been installed to reduce PFAS6 levels to concentrations below the MCL. In a Phase I Initial Site Investigation (ISI) and Tier Classification performed by Tighe & Bond from November 2023, Imminent Hazards (90 ng/L for PFAS6 concentrations) were determined to exist at various nearby properties and the release site was assigned a Tier I classification. Phase II remedial work is expected to begin in 2024 and will include additional groundwater, surface water, and soil sampling to better inform additional assessment activities.

RTN 1-21489

Beginning in September 2021, several investigations have been performed in the southern portion of the site parcel to evaluate soil and groundwater for evidence of a release of oil and/or hazardous materials (OHM) in the vicinity of the former TVOR facility and gasoline UST. On January 28, 2022, an OHM 120-day release notification was reported to MassDEP by the Town of Shutesbury for concentrations of volatile petroleum hydrocarbons in soil exceeding applicable MassDEP RCS-1 reportable concentrations. In November and December of 2022, Fuss & O'Neill conducted further environmental investigations on the release site to further delineate the nature and extent of the release condition, and to confirm the absence or presence of related environmental conditions in the area. Actions taken included the advancement of eight soil borings, the installation of a monitoring well, and sampling of groundwater and soil. Four more wells were installed in January 2023.

In a Phase I ISI and Tier Classification Submittal, authored by Fuss & O'Neill in January 2023, the release site was assigned a Tier I classification and an April 2023 groundwater investigation performed by Fuss & O'Neill as part of planned additional response actions. The April 2023 groundwater investigation revealed a decrease in petroleum-related compounds and attributed elevated heavy metal levels to naturally occurring sources. The mapped release site boundary is approximately 500 feet outside of the IWPA for the proposed PWS well.

The United States Army Corp of Engineers (USACOE) has taken over as the responsible party for this release and is currently assessing next steps.

RTN 1-16267

On July 18, 2006, personnel from the Shutesbury Fire Department notified MassDEP of a release of an unknown quantity of gasoline at the Shutesbury DPW facility located on 59 Leverett Road. Tank tightness testing revealed that a failure in the 1,000-gallon UST located on the premises. The leaking UST was removed on July 25, 2006. IRA activities consisting of the excavation and disposal of impacted soil was approved following the assignment of RTN 1-16267 to the condition. In an Immediate Response Action (IRA) Completion Report and Response Action Outcome (RAO) Statement prepared by ECS Consulting, a Class A2 RAO was recommended on the basis that permanent solutions had been achieved due to a condition of no significant risk, although contamination had not been reduced to background levels. On November 11, 2006, the Class A2 RAO was assigned, and the site was closed.

Pumping Test

A 24-hour constant rate pumping test at the proposed PWS well will be conducted at 133 ⅓ % of the pumping rate for which approval is sought, at minimum. Given the requested pump rate of 0.7 GPM, the 24-hour constant rate pumping test must be conducted at a minimum of pump rate of 0.93 GPM. The pumping rate shall be measured using a flow meter provided by the driller. The water discharge location shall be outside the 100-foot Zone I area to minimize recirculation of water during the pumping test. Water level measurements will be recorded with a transducer installed in the well.

The well will be considered stable when either 1) water fluctuation is less than two inches over the final four hours of the pumping test or 2) using a semi-logarithmic plot extrapolation of the time-drawdown curve derived from the pump test and projected over a 180-day period, 10% of the water column between the top of the pump and the static water level remain (minimally 15 feet for bedrock wells). The approvable well yield is contingent upon the stabilized pumping test rate multiplied by a safety factor of 0.75 but may be restricted depending on the land area available for a conforming Zone I.

Precipitation monitoring shall commence two days prior to commencing the 24-hour constant rate pumping test. A weather monitoring station approximately 0.9 miles from the well site shall be used for precipitation monitoring.

Water quality samples will be collected during the constant rate pump test in accordance with the Chapter 4 Guidelines and Appendix A: Water Quality Testing Requirements for Source Approval. A MassDEP-certified laboratory will perform the laboratory analyses.

CONDITIONAL APPROVAL

The decision herein is based on the proposal submittal and all relevant information received by MassDEP to date. MassDEP, acting under the authority of Chapter 111, Section 17 of the Massachusetts General Laws and pursuant to MassDEP's authority under 310 CMR 22.04(7) to require that each supplier of water operate and maintain its system in a manner that ensures the delivery of safe drinking water to consumers, grants approval to the Town of Shutesbury to proceed with development of the new PWS well and subsequent pumping test activities pursuant to the requirements, conditions and comments listed below.

1. Prior to Commencing Well Installation

a) Submit to MassDEP a well schematic for the proposed PWS well. The schematic should include anticipated well construction information, such as total depth, well casing diameter, material, and length; borehole/annular space diameter; grout materials and depth; pitless adaptor depth; screen interval, if applicable; and above-grade well construction. An annular space smaller than 3 inches may be allowed at MassDEP's discretion.

2. Prior to Pumping Test Activities

a) Submit to MassDEP the following materials regarding the proposed PWS well:

i. A copy of the Well Completion Report. The report shall be submitted electronically by the certified well driller to MassDEP's Well Driller Program. A copy of that submittal shall also be provided to the MassDEP WERO DWP.

ii. Pump depth setting. If the applicant intends to use the permanent well pump for the pumping test, it shall obtain prior approval from MassDEP by submitting information on the well pump (i.e., make, model, manufacturer cut sheet and pump curve).

b) If well yield enhancement techniques are considered, such as hydrofracturing, MassDEP shall be notified verbally or in writing. Results of the enhancement exercise shall be reported to MassDEP in writing.

c) Notify MassDEP of the pumping test schedule at least five (5) days prior to commencement.

3. During the Constant Rate Pumping Test

a) The applicant shall satisfy pumping test requirements for TNC Wells with Planned Yields Less than 10,000 GPD included in the Chapter 4 Guidelines. Those requirements include, but are not limited to, the following:

i. The pump test shall be conducted for a minimum of 24 hours.

ii. For bedrock wells, the pump test must be conducted at 133⅓ % of the pumping rate for which approval is sought.

iii. A flow measuring device capable of providing accurate flow measurements shall be used.

iv. The pumping rate shall be measured and recorded every 2 hours, at a minimum.

v. No shutdowns will be allowed for the duration of the pump test. If shutdown occurs, MassDEP will require the pump test to be rerun.

vi. The discharge from the pump test shall be located to minimize the recirculation of water.

vii. Precipitation during the pumping test shall be measured to the nearest one-hundredth (0.01) of an inch. Precipitation measurements shall commence 2 days prior to the startup of the pump test and continue during the pumping test and recovery period.

viii. Drawdown measurements in the pumping well shall be recorded, to the nearest ¼-inch (0.02 feet), every minute for the first 10 minutes, every 10 minutes for the first hour, and once per hour until pump shutdown.

ix. Prior to pump shutdown, the applicant or its representative shall provide MassDEP with pump rate and drawdown information to determine if the degree of stabilization is sufficient to allow the pump test to be terminated. Drawdown in the well must meet the stabilization criteria in the Chapter 4 Guidelines otherwise the test duration will be lengthened.

x. Following pump shutdown, recovery water level measurements in the pumping well shall be recorded at the same accuracy and frequency as drawdown readings for 8 hours or until the well recovers 95% of drawdown at stabilization, whichever occurs first. If the bedrock well does not recover at least 75% of the total drawdown within 24 hours, the well shall require reassessment.

b) Water samples shall be collected and analyzed in accordance with Chapter 4 Guidelines and Appendix A: Water Quality Testing Requirements for Source Approval. Table 1 outlines the constant-rate pumping test water quality sample plan (minimum required).

Table 1: Constant-Rate Pumping Test Water Quality Sample Plan

Parameters	**Sampling Frequency [1]**
Field Tests: pH, odor, specific conductance, and temperature	Beginning of test; End of test
Secondary contaminants [2]	One hour after startup; End of test
Total coliform bacteria [3]	End of test
Inorganic compounds (IOC) [4]	End of test
Nitrate	End of test
Nitrite	End of test
Lead	End of test
Perchlorate	End of test
Volatile organic compounds (VOC) [5]	End of test
Synthetic organic compounds (SOC) [6]	End of test
Radionuclides [7]	End of test
Per- and polyfluoroalkyl substances (PFAS) [8]	End of test

Notes:

1 Frequency is based on a 24-hour pumping test. Modifications may be necessary if test extended.

2 *Secondary contaminants* include total dissolved solids, color, odor, pH, total alkalinity ($CaCO_3$), hardness ($CaCO_3$), calcium, manganese, potassium, iron, magnesium, sulfate, chloride, silver, turbidity, aluminum, zinc, and copper.

3 If total coliform bacteria result is positive, sample must be analyzed for *E. Coli* bacteria.

4 *IOCs* include antimony, arsenic, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury,

nickel, selenium, sodium, and thallium.

5 *VOCs* include all per 310 CMR 22.07B(1) and 22.07C(5).

6 *SOCs* include all regulated and unregulated per 310 CMR 22.07(A) excluding diquat, endothall, glyphosate, and 2,3,4,8-TCDD (Dioxin).

7 *Radionuclides* include radon, gross alpha activity, radium-226, radium-228, and uranium.

8 *PFAS* analysis by either EPA Method 537 (14 compounds) or EPA Method 537.1 (18 compounds).

4. Following Completion of Constant Rate Pumping Test

a) Submit to MassDEP the following for review and approval:

i. A Source Final Report and completed BRP WS 37 permit application that meets the Chapter 4 Guidelines and permit application completeness checklist requirements. The Source Final Report shall include the following:

- Description of the PWS well and an as-built drawing. The submittal shall demonstrate that the well meets MassDEP's construction requirements.
- Description and evaluation of pumping test activities, supported by data.
- Surveyed site plan showing the well's location, elevation, latitude and longitude coordinates, property boundaries, and Zone I.
- Evidence of Zone I ownership or control of the Zone I per a MassDEP approved method.
- Water quality results, data evaluation, and discussion of unit process(es) if treatment is planned. If the applicant proposes treatment, MassDEP may require submittal of a completed BRP WS 34 permit application.
- Proposed construction plans and specifications (e.g., manufacturer cut sheets for the well pump, water meter, water storage tank, water level cutoff instrumentation and control equipment, etc.). Engineering drawings shall display the imprint of a professional engineer's seal and signature showing current registration in Massachusetts in the appropriate engineering field, as stipulated in Chapter 1 of MassDEP's Guidelines for PWS and the Massachusetts Drinking Water Regulations at 310 CMR 22.04.

ii. A completed Groundwater Under the Direct Influence (GWUDI) of Surface Water Non-Community Verification Form for the PWS well.

Applicants have five years to complete MassDEP's Source Approval Process. Any deviations from the conditions set forth in this conditional approval are subject to written MassDEP approval. Deviations without prior approval may result in action by MassDEP including, but not limited to monetary penalties and revocation of this approval.

MassDEP reminds the applicant to comply with any additional federal, state, and local regulations and ordinances pertinent to the project. This approval is subject to your receipt of and compliance with all other requirements.

Appendix E

Weather Data

https://www.wunderground.com/dashboard/pws/KMASHUTE10/table/2024-04-3/2024-04-3/daily

Appendix F

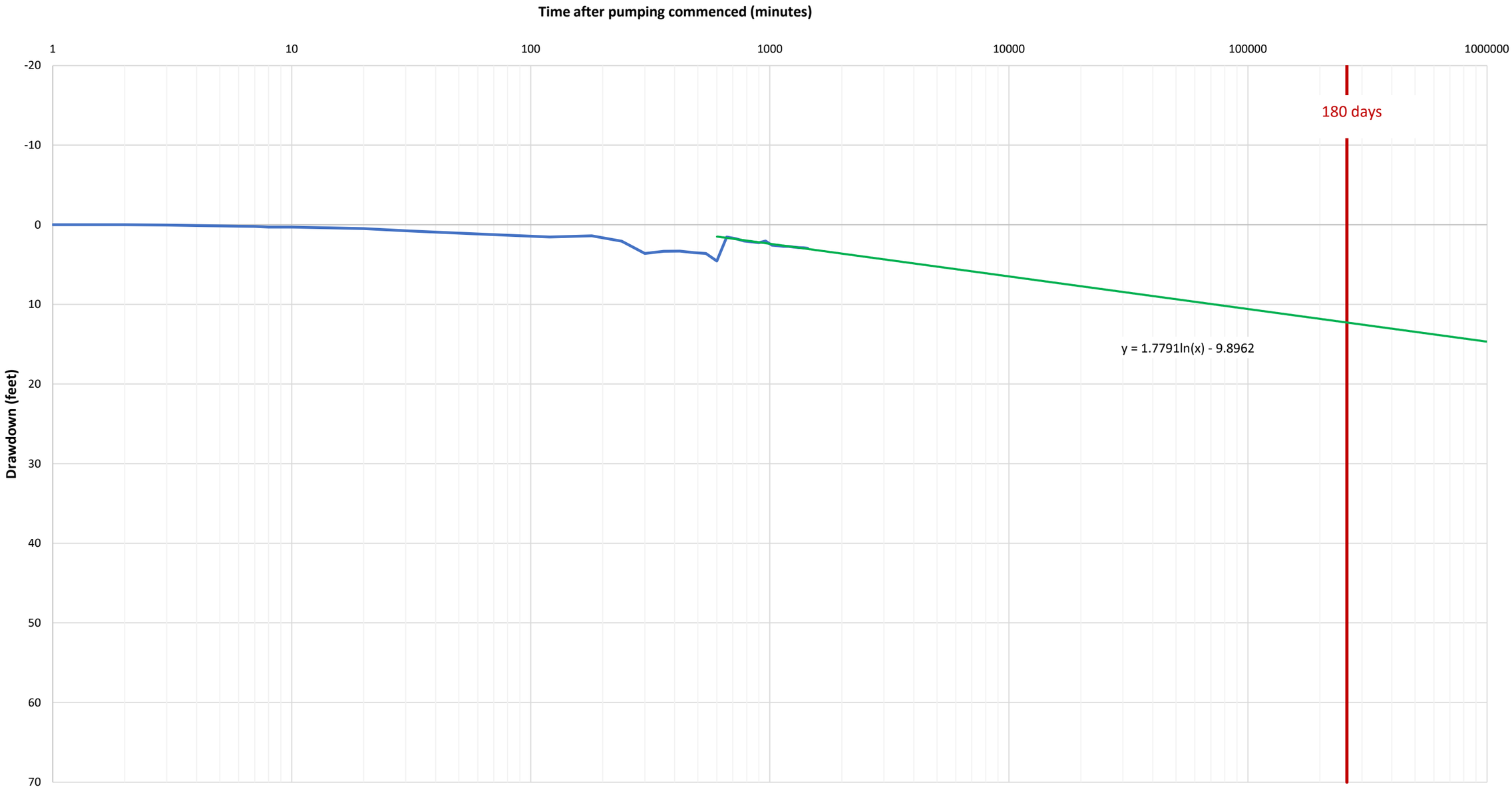
Drawdown Data

Date Time	Depth To Water (ft) (826158)		Drawdown	Time (mintes)
2:36:00 PM	19.15	Pumping Test commenced	0	0
2:37:00 PM	19.15		0	1
2:38:00 PM	19.15		0	2
2:39:00 PM	19.19		0.04	3
2:40:00 PM	19.25		0.1	4
2:41:00 PM	19.29		0.14	5
2:42:00 PM	19.35		0.2	6
2:43:00 PM	19.36		0.21	7
2:44:00 PM	19.45		0.3	8
2:45:00 PM	19.45		0.3	9
2:46:00 PM	19.45		0.3	10
2:56:00 PM	19.63		0.48	20
3:06:00 PM	19.91		0.76	30
3:16:00 PM	20.09		0.94	40
3:26:00 PM	20.21		1.06	50
3:36:00 PM	20.32		1.17	60
4:36:00 PM	20.7		1.55	120
5:36:00 PM	20.55		1.4	180
6:36:00 PM	21.23		2.08	240
7:36:00 PM	22.76		3.61	300
8:36:00 PM	22.48		3.33	360
9:36:00 PM	22.47		3.32	420
10:36:00 PM	22.65		3.5	480
11:36:00 PM	22.77		3.62	540
12:36:00 AM	23.69		4.54	600
1:36:00 AM	20.7		1.55	660
2:36:00 AM	20.9		1.75	720
3:36:00 AM	21.2		2.05	780
4:36:00 AM	21.3		2.15	840
5:36:00 AM	21.42		2.27	900
6:36:00 AM	21.2		2.05	960
7:36:00 AM	21.72		2.57	1020
8:36:00 AM	21.8		2.65	1080
9:36:00 AM	21.88		2.73	1140
10:36:00 AM	21.88		2.73	1200
11:36:00 AM	21.96		2.81	1260
12:36:00 PM	22.02		2.87	1320
1:36:00 PM	22.05		2.9	1380
2:36:00 PM	22.1	Pump shutdown	2.95	1440

Appendix G

Drawdown Plots

New Well Time-Drawdown
with 180-day Projection



Appendix H

Laboratory Analytical Reports

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Matt Kissane
Fuss & O'Neill, Inc.
1550 Main Street, Suite 400
Springfield, MA 01103

Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

PDF REPORT

This signed Certificate of Analysis is our approved release of your analytical results.

- These results are only representative of sample aliquots received at the laboratory.
- ESS Laboratory expects its clients to follow all regulatory sampling guidelines.
- Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory.
- Samples will be disposed of **thirty** days after the final report has been delivered.
- If you have any questions or concerns, please feel free to contact our Customer Service Department (ESSProjectManagement@thielsch.com).

ANALYTICAL SUMMARY

- The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan.
- This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies.
- The analyses with noted observations are in conformance to the Quality Assurance Plan.
- In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.
- Calculations utilize concentration values prior to rounding. The final calculated result is rounded to three significant figures.

QUALITY CONTROL

- The test results presented in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP).
- The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

HELPFUL LINKS

- ESS Laboratory provides a website (www.ESSLaboratory.com) with data content and portal access. Login will be required to access certain helpful information and to reach our Client Connect Data connection.
- Laboratory Certifications can be accessed or downloaded for each state from the website.
- A blank Chain of Custody can be found on the laboratory website.
- LOGIN for access to reviewed data, final reports, invoices, and electronic deliverables.
- LOGIN for access to Quality Control Manual and Data Quality Objectives needed for proposals.

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Matt Kissane
Fuss & O'Neill, Inc.
1550 Main Street, Suite 400
Springfield, MA 01103

Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Client ID: 1838240403-02
Laboratory ID: **24D0127-01**
Matrix: Drinking Water

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36

Total Metals

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Aluminum	200.7	04/04/24 21:51	mg/L	0.025	1	0.05 - 0.2 #	ND
Antimony	200.8	04/05/24 13:26	mg/L	0.0025	5	0.006	ND
Arsenic	200.9	05/08/24 12:24	mg/L	0.0025	1	0.010	ND
Barium	200.7	04/04/24 21:51	mg/L	0.010	1	2	ND
Beryllium	200.7	04/04/24 21:51	mg/L	0.0005	1	0.004	ND
Cadmium	200.8	04/05/24 13:26	mg/L	0.002	5	0.005	ND
Calcium	200.7	04/04/24 21:51	mg/L	0.250	1	---	**13.0**
Chromium	200.7	04/04/24 21:51	mg/L	0.010	1	0.1	ND
Copper	200.7	04/04/24 21:51	mg/L	0.010	1	1.3 (1.0 #)	ND
Iron	200.7	04/04/24 21:51	mg/L	0.050	1	0.3 #	**0.209**
Lead	200.8	04/05/24 13:26	mg/L	0.002	5	0.015	ND
Magnesium	200.7	04/04/24 21:51	mg/L	0.100	1	---	**2.04**
Manganese	200.7	04/04/24 21:51	mg/L	0.010	1	0.05 #	ND
Mercury	245.1	05/07/24 19:54	mg/L	0.00020	1	0.002	H ND
Nickel	200.7	04/04/24 21:51	mg/L	0.010	1	0.10 #	ND
Potassium	200.7	04/04/24 21:51	mg/L	0.500	1	---	**2.39**
Selenium	200.9	05/08/24 19:01	mg/L	0.0050	1	0.05	ND
Silver	200.7	04/04/24 21:51	mg/L	0.005	1	0.1 #	ND
Sodium	200.7	04/04/24 21:51	mg/L	0.500	1	20 #	**7.68**
Thallium	200.8	04/05/24 13:26	mg/L	0.0010	5	0.002	ND
Zinc	200.7	04/04/24 21:51	mg/L	0.0250	1	5 #	ND
Hardness	CALC	04/04/24 21:51	mg/L	0.662	1	---	**40.8**

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Client ID: 1838240403-02
Laboratory ID: **24D0127-01**
Matrix: Drinking Water

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36

524.2 Volatile Organic Compounds

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
1,1,1,2-Tetrachloroethane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
1,1,1-Trichloroethane	524.2	04/04/24 14:59	ug/L	0.5	1	200	ND
1,1,2,2-Tetrachloroethane	524.2	04/04/24 14:59	ug/L	0.4	1	---	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	524.2	04/04/24 14:59	ug/L	1.0	1	210000 #	ND
1,1,2-Trichloroethane	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
1,1-Dichloroethane	524.2	04/04/24 14:59	ug/L	0.5	1	70 #	ND
1,1-Dichloroethene	524.2	04/04/24 14:59	ug/L	0.5	1	7	ND
1,1-Dichloropropene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
1,2,3-Trichlorobenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
1,2,3-Trichloropropane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
1,2,4-Trichlorobenzene	524.2	04/04/24 14:59	ug/L	0.5	1	70	ND
1,2,4-Trimethylbenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
1,2-Dichlorobenzene	524.2	04/04/24 14:59	ug/L	0.5	1	600	ND
1,2-Dichloroethane	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
1,2-Dichloropropane	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
1,3,5-Trimethylbenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
1,3-Dichlorobenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
1,3-Dichloropropane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
1,3-Dichloropropene (Total)	524.2	04/04/24 14:59	ug/L	0.3	1	0.4 #	ND
1,4-Dichlorobenzene	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
2,2-Dichloropropane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
2-Butanone	524.2	04/04/24 14:59	ug/L	10.0	1	4000 #	ND
2-Chlorotoluene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
4-Chlorotoluene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
4-Isopropyltoluene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
4-Methyl-2-Pentanone	524.2	04/04/24 14:59	ug/L	5.0	1	350 #	ND
Acetone	524.2	04/04/24 14:59	ug/L	5.0	1	6300 #	ND
Benzene	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
Bromobenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
Bromochloromethane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Matt Kissane
Fuss & O'Neill, Inc.
1550 Main Street, Suite 400
Springfield, MA 01103

Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Client ID: 1838240403-02
Laboratory ID: **24D0127-01**
Matrix: Drinking Water

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36

524.2 Volatile Organic Compounds

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Bromodichloromethane	524.2	04/04/24 14:59	ug/L	0.5	1	---	**0.6**
Bromoform	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
Bromomethane	524.2	04/04/24 14:59	ug/L	0.5	1	10 #	ND
Carbon Tetrachloride	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
Chlorobenzene	524.2	04/04/24 14:59	ug/L	0.5	1	100	ND
Chloroethane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
Chloroform	524.2	04/04/24 14:59	ug/L	0.5	1	70 #	**1.8**
Chloromethane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
cis-1,2-Dichloroethene	524.2	04/04/24 14:59	ug/L	0.5	1	70	ND
cis-1,3-Dichloropropene	524.2	04/04/24 14:59	ug/L	0.3	1	0.4 #	ND
Dibromochloromethane	524.2	04/04/24 14:59	ug/L	0.4	1	---	ND
Dibromomethane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
Dichlorodifluoromethane	524.2	04/04/24 14:59	ug/L	0.5	1	1400 #	ND
Di-isopropyl ether	524.2	04/04/24 14:59	ug/L	1.0	1	---	ND
Ethyl tertiary-butyl ether	524.2	04/04/24 14:59	ug/L	1.0	1	---	ND
Ethylbenzene	524.2	04/04/24 14:59	ug/L	0.5	1	700	ND
Hexachlorobutadiene	524.2	04/04/24 14:59	ug/L	0.4	1	---	ND
Isopropylbenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
Methyl tert-Butyl Ether	524.2	04/04/24 14:59	ug/L	0.5	1	20 - 40 #	ND
Methylene Chloride	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
Naphthalene	524.2	04/04/24 14:59	ug/L	0.5	1	140 #	ND
n-Butylbenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
n-Propylbenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
sec-Butylbenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
Styrene	524.2	04/04/24 14:59	ug/L	0.5	1	100	ND
tert-Butylbenzene	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
Tertiary-amyl methyl ether	524.2	04/04/24 14:59	ug/L	1.0	1	90 #	ND
Tertiary-butyl Alcohol	524.2	04/04/24 14:59	ug/L	5.0	1	120 #	ND
Tetrachloroethene	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
Tetrahydrofuran	524.2	04/04/24 14:59	ug/L	10.0	1	600 #	ND

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Client ID: 1838240403-02
Laboratory ID: **24D0127-01**
Matrix: Drinking Water

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36

524.2 Volatile Organic Compounds

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Toluene	524.2	04/04/24 14:59	ug/L	0.5	1	1000	ND
trans-1,2-Dichloroethene	524.2	04/04/24 14:59	ug/L	0.5	1	100	ND
trans-1,3-Dichloropropene	524.2	04/04/24 14:59	ug/L	0.3	1	0.4 #	ND
Trichloroethene	524.2	04/04/24 14:59	ug/L	0.5	1	5	ND
Trichlorofluoromethane	524.2	04/04/24 14:59	ug/L	0.5	1	---	ND
Vinyl Chloride	524.2	04/04/24 14:59	ug/L	0.5	1	2	ND
Xylenes (Total)	524.2	04/04/24 14:59	ug/L	0.5	1	10000	ND

Classical Chemistry

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Alkalinity as CaCO3	2320B	04/08/24 19:49	mg/L	10	1	---	**50**
Ammonia as N	350.1	04/08/24 18:05	mg/L	0.10	1	---	ND
Chloride	300.0	04/08/24 16:48	mg/L	0.5	1	250 #	**4.4**
Color	HACH	04/03/24 18:20	Color Units	5	1	15 #	ND
Fluoride	300.0	04/08/24 16:48	mg/L	0.100	1	4.0 M (2.0 #)	**0.282**
pH	150.1	04/03/24 19:22	S.U.	N/A	1	6.5 - 8.5 #	**8.04**
pH Sample Temperature	2550B	04/03/24 19:22	°C	N/A	1	---	**15.8**
Sulfate	300.0	04/08/24 16:48	mg/L	0.5	1	250 #	**9.8**
Total Cyanide	4500 CN CE	04/04/24 11:40	mg/L	0.0050	1	0.2	ND
Total Dissolved Solids	2540C	04/08/24 16:19	mg/L	10	1	---	**96**
Turbidity	180.1	04/03/24 18:37	NTU	1.0	1	---	**1.9**

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Client ID: 1838240403-02
Laboratory ID: **24D0127-01**
Matrix: Drinking Water
Sample Type: Grab

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36
Date Extracted: 4/8/24
Analytical Method: 537.1

Perfluorinated Alkyl Acids

Parameter	Date/Time Analyzed	Units	MDL	MRL	Dilution Factor	DW MCL/ Recommended Limit #	Result
Perfluoroheptanoic acid (PFHpA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorohexanesulfonic acid (PFHxS)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorooctanoic acid (PFOA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorononanoic acid (PFNA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorooctanesulfonic acid (PFOS)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorodecanoic acid (PFDA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
PFAS, Total 6	4/9/2024 20:29	ng/L	0.26	0.88	1	20	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorobutanesulfonic acid (PFBS)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorododecanoic acid (PFDoA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorotetradecanoic acid (PFTA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorotridecanoic acid (PFTrDA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluoroundecanoic acid (PFUnA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND
Perfluorohexanoic acid (PFHxA)	4/9/2024 20:29	ng/L	0.26	0.88	1	---	ND

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Client ID: 1838240403-02
Laboratory ID: **24D0127-01**
Matrix: Drinking Water

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36

Microbiology

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
E.coli	SM9223B	04/03/24 17:45	/100mL	1	1	Absent	Absent
Total Coliform	SM9223B	04/03/24 17:45	/100mL	1	1	Absent	Absent

Inorganic Chemistry

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Odor	2150B Mod	04/04/24 15:45	TON	1	1	3 #	**Ha 1**

ASTM D5174-97

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Total Uranium	STM D5174-9	04/23/24 0:00	ug/L	N/A	1	---	**4.67 +/- 0.081**

EPA 900.0

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Gross Alpha	EPA 900.0	04/22/24 0:00	pCi/L	N/A	1	---	**3.23 +/- 1.53**

EPA 903.1

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Radium-226	EPA 903.1	04/22/24 0:00	pCi/L	N/A	1	---	**0.642 +/- 0.379**

EPA 904.0

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Radium-228	EPA 904.0	04/17/24 0:00	pCi/L	N/A	1	---	**0.133 +/- 0.351**

SM 7500RnB-1996

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Radon	M 7500RnB-19	04/11/24 0:00	pCi/L	N/A	1	---	**11,197 +/- 291**

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Work Order Number: 24D0127
Date Received: 04/03/2024

Client ID: 1838240403-02
Laboratory ID: **24D0127-01**
Matrix: Drinking Water

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36

EPA 331.0

Parameter	Analytical Method	Date/Time Analyzed	Units	MDL	Dilution Factor	DW MCL/ Recommended Limit #	Result
Perchlorate	EPA 331.0	04/11/24 20:52	ug/L	0.012	1	---	**0.054**

EPA 504.1

Parameter	Analytical Method	Date/Time Analyzed	Units	MDL	Dilution Factor	DW MCL/ Recommended Limit #	Result
1,2-Dibromoethane (EDB)	EPA 504.1	04/11/24 0:14	ug/L	0.0051	1	---	ND
1,2-Dibromo-3-Chloropropane	EPA 504.1	04/11/24 0:14	ug/L	0.0062	1	---	ND

EPA 505

Parameter	Analytical Method	Date/Time Analyzed	Units	MDL	Dilution Factor	DW MCL/ Recommended Limit #	Result
PCB-1016	EPA 505	04/10/24 18:03	ug/L	0.079	1	---	ND
PCB-1221	EPA 505	04/10/24 18:03	ug/L	0.050	1	---	ND
PCB-1232	EPA 505	04/10/24 18:03	ug/L	0.070	1	---	ND
PCB-1242	EPA 505	04/10/24 18:03	ug/L	0.050	1	---	ND
PCB-1248	EPA 505	04/10/24 18:03	ug/L	0.080	1	---	ND
PCB-1254	EPA 505	04/10/24 18:03	ug/L	0.070	1	---	ND
PCB-1260	EPA 505	04/10/24 18:03	ug/L	0.040	1	---	ND
Chlordane (technical)	EPA 505	04/10/24 18:03	ug/L	0.040	1	---	ND
Toxaphene	EPA 505	04/10/24 18:03	ug/L	0.060	1	---	ND

EPA 515.3

Parameter	Analytical Method	Date/Time Analyzed	Units	MDL	Dilution Factor	DW MCL/ Recommended Limit #	Result
2,4,5-TP (Silvex)	EPA 515.3	04/13/24 4:55	ug/L	0.030	1	---	ND
Dalapon	EPA 515.3	04/13/24 4:55	ug/L	0.40	1	---	ND
Dicamba	EPA 515.3	04/13/24 4:55	ug/L	0.080	1	---	ND
Dinoseb	EPA 515.3	04/13/24 4:55	ug/L	0.090	1	---	ND
Pentachlorophenol	EPA 515.3	04/13/24 4:55	ug/L	0.010	1	---	ND
Picloram	EPA 515.3	04/13/24 4:55	ug/L	0.030	1	---	ND
2,4-D	EPA 515.3	04/13/24 4:55	ug/L	0.080	1	---	ND

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Client ID: 1838240403-02
Laboratory ID: **24D0127-01**
Matrix: Drinking Water

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36

EPA 525.2

Parameter	Analytical Method	Date/Time Analyzed	Units	MDL	Dilution Factor	DW MCL/ Recommended Limit #	Result
Alachlor	EPA 525.2	04/13/24 11:12	ug/L	0.0098	1	---	ND
Aldrin	EPA 525.2	04/13/24 11:12	ug/L	0.0080	1	---	ND
Atrazine	EPA 525.2	04/13/24 11:12	ug/L	0.0098	1	---	ND
Benzo[a]pyrene	EPA 525.2	04/13/24 11:12	ug/L	0.012	1	---	ND
Butachlor	EPA 525.2	04/13/24 11:12	ug/L	0.020	1	---	ND
Di(2-ethylhexyl)adipate	EPA 525.2	04/13/24 11:12	ug/L	0.020	1	---	ND
Di (2-ethylhexyl)phthalate	EPA 525.2	04/13/24 11:12	ug/L	0.098	1	---	ND
Dieldrin	EPA 525.2	04/13/24 11:12	ug/L	0.020	1	---	ND
Endrin	EPA 525.2	04/13/24 11:12	ug/L	0.0097	1	---	ND
gamma-BHC (Lindane)	EPA 525.2	04/13/24 11:12	ug/L	0.0083	1	---	ND
Heptachlor	EPA 525.2	04/13/24 11:12	ug/L	0.0043	1	---	ND
Heptachlor epoxide	EPA 525.2	04/13/24 11:12	ug/L	0.0039	1	---	ND
Hexachlorobenzene	EPA 525.2	04/13/24 11:12	ug/L	0.0098	1	---	ND
Hexachlorocyclopentadiene	EPA 525.2	04/13/24 11:12	ug/L	0.0098	1	---	ND
Methoxychlor	EPA 525.2	04/13/24 11:12	ug/L	0.0098	1	---	ND
Metolachlor	EPA 525.2	04/13/24 11:12	ug/L	0.0098	1	---	ND
Metribuzin	EPA 525.2	04/13/24 11:12	ug/L	0.0098	1	---	ND
Propachlor	EPA 525.2	04/13/24 11:12	ug/L	0.0098	1	---	ND
Simazine	EPA 525.2	04/13/24 11:12	ug/L	0.030	1	---	ND

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Matrix: Drinking Water

Sampled By: Jon Kitteredge
Date/Time Sampled: 04/03/24 14:36

EPA 531.2

Parameter	Analytical Method	Date/Time Analyzed	Units	MDL	Dilution Factor	DW MCL/ Recommended Limit #	Result
1-Naphthol	EPA 531.2	04/12/24 0:20	ug/L	0.30	1	---	ND
3-Hydroxycarbofuran	EPA 531.2	04/12/24 0:20	ug/L	0.20	1	---	ND
Aldicarb	EPA 531.2	04/12/24 0:20	ug/L	0.20	1	---	ND
Aldicarb sulfone	EPA 531.2	04/12/24 0:20	ug/L	0.20	1	---	ND
Aldicarb sulfoxide	EPA 531.2	04/12/24 0:20	ug/L	0.20	1	---	ND
Baygon (Propoxur)	EPA 531.2	04/12/24 0:20	ug/L	0.20	1	---	ND
Carbaryl	EPA 531.2	04/12/24 0:20	ug/L	0.20	1	---	ND
Carbofuran	EPA 531.2	04/12/24 0:20	ug/L	0.30	1	---	ND
Methiocarb	EPA 531.2	04/12/24 0:20	ug/L	0.40	1	---	ND
Methomyl	EPA 531.2	04/12/24 0:20	ug/L	0.30	1	---	ND
Oxamyl	EPA 531.2	04/12/24 0:20	ug/L	0.30	1	---	ND

Laurel Stoddard
Laboratory Director

REVIEWED
By SLawler at 2:48 pm, May 13, 2024

Subcontracted Analyses:

Analytical Balance - SUB - Middleboro, MA (M-MA022) — Odor
BAL Laboratory - Cranston, RI (M-RIM01) — Total Coliform
Eurofins Eaton Analytical - SUB - South Bend, IN (M-IN035) — Perchlorate; SOC
Pace Analytical - Greensburg - SUB - Greensburg, PA (M-PA1457) — Gross Alpha

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127

Date Received: 04/03/2024

Surrogate Data

524.2 Volatile Organic Compounds

Parameter	Result	Units	Spike Level	Recovery and Limits	Qualifier
Batch DD40425 - 524.2 - 524.2					
24D0127-01					
1,2-Dichlorobenzene-d4	5.40	ug/L	5.000	108% (80-120%)	
4-Bromofluorobenzene	4.41	ug/L	5.000	88% (80-120%)	
DD40425-BLK1					
1,2-Dichlorobenzene-d4	5.42	ug/L	5.000	108% (80-120%)	
4-Bromofluorobenzene	4.72	ug/L	5.000	94% (80-120%)	
DD40425-BS1					
1,2-Dichlorobenzene-d4	5.42	ug/L	5.000	108% (80-120%)	
4-Bromofluorobenzene	5.49	ug/L	5.000	110% (80-120%)	
DD40425-BSD1					
1,2-Dichlorobenzene-d4	5.22	ug/L	5.000	104% (80-120%)	
4-Bromofluorobenzene	5.24	ug/L	5.000	105% (80-120%)	

Perfluorinated Alkyl Acids

Parameter	Result	Units	Spike Level	Recovery and Limits	Qualifier
Batch DD40812 - 537.1 - 537.1					
24D0127-01					
N-deuterioethylperfluoro-1-octanesulfonamidoacetic acid	154	ng/L	140.6	109% (70-130%)	
Perfluoro-n-[1,2-13C2]decanoic acid	37.2	ng/L	35.15	106% (70-130%)	
Perfluoro-n-[1,2-13C2]hexanoic acid	38.7	ng/L	35.15	110% (70-130%)	
Tetrafluoro-2-heptafluoropropoxy-13C3-propanoic acid	37.3	ng/L	35.15	106% (70-130%)	
DD40812-BLK1					
N-deuterioethylperfluoro-1-octanesulfonamidoacetic acid	160	ng/L	160.0	100% (70-130%)	
Perfluoro-n-[1,2-13C2]decanoic acid	41.2	ng/L	40.00	103% (70-130%)	
Perfluoro-n-[1,2-13C2]hexanoic acid	41.4	ng/L	40.00	104% (70-130%)	
Tetrafluoro-2-heptafluoropropoxy-13C3-propanoic acid	43.5	ng/L	40.00	109% (70-130%)	
DD40812-BS1					
N-deuterioethylperfluoro-1-octanesulfonamidoacetic acid	164	ng/L	160.0	103% (70-130%)	
Perfluoro-n-[1,2-13C2]decanoic acid	43.4	ng/L	40.00	108% (70-130%)	
Perfluoro-n-[1,2-13C2]hexanoic acid	45.7	ng/L	40.00	114% (70-130%)	
Tetrafluoro-2-heptafluoropropoxy-13C3-propanoic acid	47.1	ng/L	40.00	118% (70-130%)	
DD40812-BSD1					
N-deuterioethylperfluoro-1-octanesulfonamidoacetic acid	150	ng/L	160.0	94% (70-130%)	
Perfluoro-n-[1,2-13C2]decanoic acid	40.6	ng/L	40.00	101% (70-130%)	
Perfluoro-n-[1,2-13C2]hexanoic acid	42.1	ng/L	40.00	105% (70-130%)	
Tetrafluoro-2-heptafluoropropoxy-13C3-propanoic acid	41.9	ng/L	40.00	105% (70-130%)	

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127

Date Received: 04/03/2024

Surrogate Data

EPA 515.3

Parameter	Result	Units	Spike Level	Recovery and Limits	Qualifier
Batch 95193 - General Prep - EPA 515.3					
24D0127-01					
2,4-Dichlorophenylacetic acid	26	ug/L	25.0	105% (70-130%)	
951931BB					
2,4-Dichlorophenylacetic acid	26.7	ug/L	25.0	107% (70-130%)	
951932BQ					
2,4-Dichlorophenylacetic acid	25.9	ug/L	25.0	103% (70-130%)	

EPA 525.2

Parameter	Result	Units	Spike Level	Recovery and Limits	Qualifier
Batch 95147 - General Prep - EPA 525.2					
24D0127-01					
2-Nitro-m-xylene (Surr)	4.5	ug/L	4.89	92% (70-130%)	
Perylene-d12 (Surr)	4.4	ug/L	4.92	90% (70-130%)	
Triphenylphosphate (Surr)	4.5	ug/L	4.93	91% (70-130%)	
951471AB					
2-Nitro-m-xylene (Surr)	4.24	ug/L	4.94	86% (70-130%)	
Perylene-d12 (Surr)	4.75	ug/L	4.98	95% (70-130%)	
Triphenylphosphate (Surr)	4.61	ug/L	4.98	93% (70-130%)	
951472AQ					
2-Nitro-m-xylene (Surr)	4.38	ug/L	4.98	88% (70-130%)	
Perylene-d12 (Surr)	4.75	ug/L	5.02	95% (70-130%)	
Triphenylphosphate (Surr)	4.70	ug/L	5.02	94% (70-130%)	
951473AQ					
2-Nitro-m-xylene (Surr)	4.49	ug/L	4.96	90% (70-130%)	
Perylene-d12 (Surr)	4.87	ug/L	4.99	98% (70-130%)	
Triphenylphosphate (Surr)	4.54	ug/L	5.00	91% (70-130%)	

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Quality Control Data

Inorganic Chemistry

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch AD40426 - General No Prep - 2150B Mod									
Blank									
Odor	ND		1	TON					
Duplicate **Source: 24D0127-01**									
Odor	1		1	TON		1		0.00% (200%)	

Quality Control Data

Total Metals

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch DD40414 - 3005A/200.7 - 200.7									
Blank									
Aluminum	ND		0.025	mg/L					
Barium	ND		0.010	mg/L					
Beryllium	ND		0.0005	mg/L					
Ca 315.887	ND		0.250	mg/L					
Calcium	ND		0.250	mg/L					
Chromium	ND		0.010	mg/L					
Copper	ND		0.010	mg/L					
Iron	ND		0.050	mg/L					
Magnesium	ND		0.100	mg/L					
Manganese	ND		0.010	mg/L					
Mg 279.077	ND		0.100	mg/L					
Nickel	ND		0.010	mg/L					
Potassium	ND		0.500	mg/L					
Silver	ND		0.005	mg/L					
Sodium	ND		0.500	mg/L					
Zinc	ND		0.0250	mg/L					
Blank									
Antimony	ND		0.0025	mg/L					
Cadmium	ND		0.002	mg/L					
Lead	ND		0.002	mg/L					
Thallium	ND		0.0010	mg/L					
Blank									

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Quality Control Data

Total Metals

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Blank									
Arsenic	ND		0.0025	mg/L					
Selenium	ND		0.0050	mg/L					
LCS									
Aluminum	1.27		0.025	mg/L	1.250		102% (85-115%)		
Barium	0.254		0.010	mg/L	0.2500		102% (85-115%)		
Beryllium	0.0243		0.0005	mg/L	0.02500		97% (85-115%)		
Ca 315.887	2.57		0.250	mg/L	2.500		103% (85-115%)		
Calcium	2.57		0.250	mg/L	2.500		103% (85-115%)		
Chromium	0.251		0.010	mg/L	0.2500		100% (85-115%)		
Copper	0.252		0.010	mg/L	0.2500		101% (85-115%)		
Iron	1.32		0.050	mg/L	1.250		105% (85-115%)		
Magnesium	2.51		0.100	mg/L	2.500		101% (85-115%)		
Manganese	0.253		0.010	mg/L	0.2500		101% (85-115%)		
Mg 279.077	2.51		0.100	mg/L	2.500		101% (85-115%)		
Nickel	0.257		0.010	mg/L	0.2500		103% (85-115%)		
Potassium	12.5		0.500	mg/L	12.50		100% (85-115%)		
Silver	0.127		0.005	mg/L	0.1250		102% (85-115%)		
Sodium	12.7		0.500	mg/L	12.50		101% (85-115%)		
Zinc	0.256		0.0250	mg/L	0.2500		102% (85-115%)		
LCS									
Antimony	0.261		0.0250	mg/L	0.2500		104% (85-115%)		
Cadmium	0.146		0.025	mg/L	0.1250		116% (85-115%)		B+
Lead	0.276		0.025	mg/L	0.2500		110% (85-115%)		
Thallium	0.272		0.0100	mg/L	0.2500		109% (85-115%)		
LCS									
Arsenic	0.288		0.0625	mg/L	0.2500		115% (85-115%)		
Selenium	0.515		0.125	mg/L	0.5000		103% (85-115%)		
LCS Dup									
Aluminum	1.25		0.025	mg/L	1.250		100% (85-115%)	2% (20%)	
Barium	0.254		0.010	mg/L	0.2500		102% (85-115%)	0.2% (20%)	
Beryllium	0.0243		0.0005	mg/L	0.02500		97% (85-115%)	0.1% (20%)	
Ca 315.887	2.50		0.250	mg/L	2.500		100% (85-115%)	3% (20%)	
Calcium	2.50		0.250	mg/L	2.500		100% (85-115%)	3% (20%)	
Chromium	0.249		0.010	mg/L	0.2500		100% (85-115%)	0.6% (20%)	

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Quality Control Data

Total Metals

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS Dup									
Copper	0.252		0.010	mg/L	0.2500		101% (85-115%)	0.2% (20%)	
Iron	1.26		0.050	mg/L	1.250		101% (85-115%)	4% (20%)	
Magnesium	2.45		0.100	mg/L	2.500		98% (85-115%)	2% (20%)	
Manganese	0.253		0.010	mg/L	0.2500		101% (85-115%)	0.2% (20%)	
Mg 279.077	2.45		0.100	mg/L	2.500		98% (85-115%)	2% (20%)	
Nickel	0.256		0.010	mg/L	0.2500		102% (85-115%)	0.6% (20%)	
Potassium	12.3		0.500	mg/L	12.50		98% (85-115%)	1% (20%)	
Silver	0.126		0.005	mg/L	0.1250		101% (85-115%)	0.7% (20%)	
Sodium	12.4		0.500	mg/L	12.50		99% (85-115%)	2% (20%)	
Zinc	0.254		0.0250	mg/L	0.2500		101% (85-115%)	0.8% (20%)	
LCS Dup									
Antimony	0.255		0.0250	mg/L	0.2500		102% (85-115%)	2% (20%)	
Cadmium	0.142		0.025	mg/L	0.1250		113% (85-115%)	3% (20%)	
Thallium	0.267		0.0100	mg/L	0.2500		107% (85-115%)	2% (20%)	
Duplicate **Source: 24D0127-01**									
Aluminum	0.018		0.025	mg/L		0.022		19% (20%)	
Arsenic	ND		0.0025	mg/L		ND			
Barium	0.002		0.010	mg/L		0.002		12% (20%)	
Beryllium	ND		0.0005	mg/L		ND			
Ca 315.887	13.5		0.250	mg/L		13.0		4% (20%)	
Calcium	13.5		0.250	mg/L		13.0		4% (20%)	
Chromium	0.002		0.010	mg/L		0.002		1% (20%)	
Copper	0.005		0.010	mg/L		0.006		12% (20%)	
Iron	0.216		0.050	mg/L		0.209		3% (20%)	
Magnesium	2.11		0.100	mg/L		2.04		4% (20%)	
Manganese	0.005		0.010	mg/L		0.005		0.3% (20%)	
Mg 279.077	2.11		0.100	mg/L		2.04		4% (20%)	
Nickel	ND		0.010	mg/L		ND			
Potassium	2.45		0.500	mg/L		2.39		3% (20%)	
Selenium	0.0007		0.0050	mg/L		0.0007		0.5% (20%)	
Silver	ND		0.005	mg/L		ND			
Sodium	7.82		0.500	mg/L		7.68		2% (20%)	
Zinc	0.0168		0.0250	mg/L		0.0159		6% (20%)	
Matrix Spike **Source: 24D0127-01**									

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Quality Control Data

Total Metals

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Matrix Spike **Source: 24D0127-01**									
Aluminum	1.31		0.025	mg/L	1.250	0.022	103% (70-130%)		
Arsenic	0.292		0.0625	mg/L	0.2500	ND	117% (70-130%)		
Barium	0.259		0.010	mg/L	0.2500	0.002	103% (70-130%)		
Beryllium	0.0250		0.0005	mg/L	0.02500	ND	100% (70-130%)		
Ca 315.887	17.2		0.250	mg/L	2.500	13.0	168% (85-115%)		MT
Calcium	17.2		0.250	mg/L	2.500	13.0	168% (70-130%)		MT
Chromium	0.255		0.010	mg/L	0.2500	0.002	101% (70-130%)		
Copper	0.261		0.010	mg/L	0.2500	0.006	102% (70-130%)		
Iron	1.54		0.050	mg/L	1.250	0.209	107% (70-130%)		
Magnesium	4.87		0.100	mg/L	2.500	2.04	113% (70-130%)		
Manganese	0.260		0.010	mg/L	0.2500	0.005	102% (70-130%)		
Mg 279.077	4.87		0.100	mg/L	2.500	2.04	113% (85-115%)		
Nickel	0.257		0.010	mg/L	0.2500	ND	103% (70-130%)		
Potassium	15.1		0.500	mg/L	12.50	2.39	102% (70-130%)		
Selenium	0.547		0.125	mg/L	0.5000	ND	109% (70-130%)		
Silver	0.129		0.005	mg/L	0.1250	ND	103% (70-130%)		
Sodium	21.0		0.500	mg/L	12.50	7.68	106% (70-130%)		
Zinc	0.272		0.0250	mg/L	0.2500	0.0159	102% (70-130%)		
Batch DE40716 - 245.1/7470A - 245.1									
Blank									
Mercury	ND		0.00020	mg/L					
LCS									
Mercury	0.00592		0.00020	mg/L	0.006000		99% (85-115%)		
LCS Dup									
Mercury	0.00585		0.00020	mg/L	0.006000		98% (85-115%)	1% (20%)	

524.2 Volatile Organic Compounds

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch DD40425 - 524.2 - 524.2									
Blank									
1,1,1,2-Tetrachloroethane	ND		0.5	ug/L					
1,1,1-Trichloroethane	ND		0.5	ug/L					
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L					

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Quality Control Data

524.2 Volatile Organic Compounds

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Blank									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	ug/L					
1,1,2-Trichloroethane	ND		0.5	ug/L					
1,1-Dichloroethane	ND		0.5	ug/L					
1,1-Dichloroethene	ND		0.5	ug/L					
1,1-Dichloropropene	ND		0.5	ug/L					
1,2,3-Trichlorobenzene	ND		0.5	ug/L					
1,2,3-Trichloropropane	ND		0.5	ug/L					
1,2,4-Trichlorobenzene	ND		0.5	ug/L					
1,2,4-Trimethylbenzene	ND		0.5	ug/L					
1,2-Dichlorobenzene	ND		0.5	ug/L					
1,2-Dichloroethane	ND		0.5	ug/L					
1,2-Dichloropropane	ND		0.5	ug/L					
1,3,5-Trimethylbenzene	ND		0.5	ug/L					
1,3-Dichlorobenzene	ND		0.5	ug/L					
1,3-Dichloropropane	ND		0.5	ug/L					
1,4-Dichlorobenzene	ND		0.5	ug/L					
2,2-Dichloropropane	ND		0.5	ug/L					
2-Butanone	ND		10.0	ug/L					
2-Chlorotoluene	ND		0.5	ug/L					
4-Chlorotoluene	ND		0.5	ug/L					
4-Isopropyltoluene	ND		0.5	ug/L					
4-Methyl-2-Pentanone	ND		5.0	ug/L					
Acetone	ND		5.0	ug/L					
Benzene	ND		0.5	ug/L					
Bromobenzene	ND		0.5	ug/L					
Bromochloromethane	ND		0.5	ug/L					
Bromodichloromethane	ND		0.5	ug/L					
Bromoform	ND		0.5	ug/L					
Bromomethane	ND		0.5	ug/L					
Carbon Tetrachloride	ND		0.5	ug/L					
Chlorobenzene	ND		0.5	ug/L					
Chloroethane	ND		0.5	ug/L					
Chloroform	ND		0.5	ug/L					
Chloromethane	ND		0.5	ug/L					

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524.2 Volatile Organic Compounds

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Blank									
cis-1,2-Dichloroethene	ND		0.5	ug/L					
cis-1,3-Dichloropropene	ND		0.3	ug/L					
Dibromochloromethane	ND		0.4	ug/L					
Dibromomethane	ND		0.5	ug/L					
Dichlorodifluoromethane	ND		0.5	ug/L					
Di-isopropyl ether	ND		1.0	ug/L					
Ethyl tertiary-butyl ether	ND		1.0	ug/L					
Ethylbenzene	ND		0.5	ug/L					
Hexachlorobutadiene	ND		0.4	ug/L					
Isopropylbenzene	ND		0.5	ug/L					
Methyl tert-Butyl Ether	ND		0.5	ug/L					
Methylene Chloride	ND		0.5	ug/L					
Naphthalene	ND		0.5	ug/L					
n-Butylbenzene	ND		0.5	ug/L					
n-Propylbenzene	ND		0.5	ug/L					
sec-Butylbenzene	ND		0.5	ug/L					
Styrene	ND		0.5	ug/L					
tert-Butylbenzene	ND		0.5	ug/L					
Tertiary-amyl methyl ether	ND		1.0	ug/L					
Tertiary-butyl Alcohol	ND		5.0	ug/L					
Tetrachloroethene	ND		0.5	ug/L					
Tetrahydrofuran	ND		10.0	ug/L					
Toluene	ND		0.5	ug/L					
trans-1,2-Dichloroethene	ND		0.5	ug/L					
trans-1,3-Dichloropropene	ND		0.3	ug/L					
Trichloroethene	ND		0.5	ug/L					
Trichlorofluoromethane	ND		0.5	ug/L					
Vinyl Chloride	ND		0.5	ug/L					
Xylene O	ND		0.5	ug/L					
Xylene P,M	ND		0.5	ug/L					
Xylenes (Total)	ND		0.5	ug/L					
1,2-Dichlorobenzene-d4	5.42		0.2	ug/L	5.000				
4-Bromofluorobenzene	4.72		0.2	ug/L	5.000				
LCS									

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524.2 Volatile Organic Compounds

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS									
1,1,1,2-Tetrachloroethane	11.0		0.5	ug/L	10.00		110% (70-130%)		
1,1,1-Trichloroethane	10.8		0.5	ug/L	10.00		108% (70-130%)		
1,1,2,2-Tetrachloroethane	10.0		0.4	ug/L	10.00		100% (70-130%)		
1,1,2-Trichloro-1,2,2-trifluoroethane	12.6		1.0	ug/L	10.00		126% (70-130%)		
1,1,2-Trichloroethane	10.0		0.5	ug/L	10.00		100% (70-130%)		
1,1-Dichloroethane	10.8		0.5	ug/L	10.00		108% (70-130%)		
1,1-Dichloroethene	10.4		0.5	ug/L	10.00		104% (70-130%)		
1,1-Dichloropropene	10.8		0.5	ug/L	10.00		108% (70-130%)		
1,2,3-Trichlorobenzene	12.2		0.5	ug/L	10.00		122% (70-130%)		
1,2,3-Trichloropropane	9.4		0.5	ug/L	10.00		94% (70-130%)		
1,2,4-Trichlorobenzene	12.5		0.5	ug/L	10.00		125% (70-130%)		
1,2,4-Trimethylbenzene	11.8		0.5	ug/L	10.00		118% (70-130%)		
1,2-Dichlorobenzene	10.7		0.5	ug/L	10.00		107% (70-130%)		
1,2-Dichloroethane	9.9		0.5	ug/L	10.00		99% (70-130%)		
1,2-Dichloropropane	10.3		0.5	ug/L	10.00		103% (70-130%)		
1,3,5-Trimethylbenzene	11.8		0.5	ug/L	10.00		118% (70-130%)		
1,3-Dichlorobenzene	11.1		0.5	ug/L	10.00		111% (70-130%)		
1,3-Dichloropropane	10.7		0.5	ug/L	10.00		107% (70-130%)		
1,4-Dichlorobenzene	11.1		0.5	ug/L	10.00		111% (70-130%)		
2,2-Dichloropropane	10.3		0.5	ug/L	10.00		103% (70-130%)		
2-Butanone	49.0		10.0	ug/L	50.00		98% (50-150%)		
2-Chlorotoluene	11.4		0.5	ug/L	10.00		114% (70-130%)		
4-Chlorotoluene	11.2		0.5	ug/L	10.00		112% (70-130%)		
4-Isopropyltoluene	11.3		0.5	ug/L	10.00		113% (70-130%)		
4-Methyl-2-Pentanone	46.3		5.0	ug/L	50.00		93% (50-150%)		
Acetone	41.6		5.0	ug/L	50.00		83% (50-150%)		
Benzene	10.7		0.5	ug/L	10.00		107% (70-130%)		
Bromobenzene	11.3		0.5	ug/L	10.00		113% (70-130%)		
Bromochloromethane	10.3		0.5	ug/L	10.00		103% (70-130%)		
Bromodichloromethane	11.1		0.5	ug/L	10.00		111% (70-130%)		
Bromoform	10.6		0.5	ug/L	10.00		106% (70-130%)		
Bromomethane	9.8		0.5	ug/L	10.00		98% (70-130%)		
Carbon Tetrachloride	11.1		0.5	ug/L	10.00		111% (70-130%)		
Chlorobenzene	11.2		0.5	ug/L	10.00		112% (70-130%)		

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Work Order Number: 24D0127
Date Received: 04/03/2024

Quality Control Data

524.2 Volatile Organic Compounds

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS									
Chloroethane	9.5		0.5	ug/L	10.00		95% (70-130%)		
Chloroform	10.0		0.5	ug/L	10.00		100% (70-130%)		
Chloromethane	9.1		0.5	ug/L	10.00		91% (70-130%)		
cis-1,2-Dichloroethene	10.9		0.5	ug/L	10.00		109% (70-130%)		
cis-1,3-Dichloropropene	11.2		0.3	ug/L	10.00		112% (70-130%)		
Dibromochloromethane	11.6		0.4	ug/L	10.00		116% (70-130%)		
Dibromomethane	10.2		0.5	ug/L	10.00		102% (70-130%)		
Dichlorodifluoromethane	7.0		0.5	ug/L	10.00		70% (70-130%)		
Di-isopropyl ether	10.5		1.0	ug/L	10.00		105% (70-130%)		
Ethyl tertiary-butyl ether	9.0		1.0	ug/L	10.00		90% (70-130%)		
Ethylbenzene	11.6		0.5	ug/L	10.00		116% (70-130%)		
Hexachlorobutadiene	11.1		0.4	ug/L	10.00		111% (70-130%)		
Isopropylbenzene	12.9		0.5	ug/L	10.00		129% (70-130%)		
Methyl tert-Butyl Ether	10.1		0.5	ug/L	10.00		101% (70-130%)		
Methylene Chloride	13.7		0.5	ug/L	10.00		137% (70-130%)		B+
Naphthalene	11.3		0.5	ug/L	10.00		113% (70-130%)		
n-Butylbenzene	11.6		0.5	ug/L	10.00		116% (70-130%)		
n-Propylbenzene	11.9		0.5	ug/L	10.00		119% (70-130%)		
sec-Butylbenzene	11.2		0.5	ug/L	10.00		112% (70-130%)		
Styrene	11.7		0.5	ug/L	10.00		117% (70-130%)		
tert-Butylbenzene	11.8		0.5	ug/L	10.00		118% (70-130%)		
Tertiary-amyl methyl ether	10.0		1.0	ug/L	10.00		100% (70-130%)		
Tertiary-butyl Alcohol	42.6		5.0	ug/L	50.00		85% (70-130%)		
Tetrachloroethene	11.3		0.5	ug/L	10.00		113% (70-130%)		
Tetrahydrofuran	7.3		10.0	ug/L	10.00		73% (50-150%)		
Toluene	11.3		0.5	ug/L	10.00		113% (70-130%)		
trans-1,2-Dichloroethene	11.4		0.5	ug/L	10.00		114% (70-130%)		
trans-1,3-Dichloropropene	10.4		0.3	ug/L	10.00		104% (70-130%)		
Trichloroethene	10.5		0.5	ug/L	10.00		105% (70-130%)		
Trichlorofluoromethane	9.3		0.5	ug/L	10.00		93% (70-130%)		
Vinyl Chloride	10.0		0.5	ug/L	10.00		100% (70-130%)		
Xylene O	11.6		0.5	ug/L	10.00		116% (70-130%)		
Xylene P,M	23.4		0.5	ug/L	20.00		117% (70-130%)		
1,2-Dichlorobenzene-d4	5.42		0.2	ug/L	5.000		108% (80-120%)		

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Quality Control Data

524.2 Volatile Organic Compounds

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS									
4-Bromofluorobenzene	5.49		0.2	ug/L	5.000		110% (80-120%)		
LCS Dup									
1,1,1,2-Tetrachloroethane	10.3		0.5	ug/L	10.00		103% (70-130%)	6% (20%)	
1,1,1-Trichloroethane	10.3		0.5	ug/L	10.00		103% (70-130%)	5% (20%)	
1,1,2,2-Tetrachloroethane	9.5		0.4	ug/L	10.00		95% (70-130%)	5% (20%)	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.5		1.0	ug/L	10.00		105% (70-130%)	18% (20%)	
1,1,2-Trichloroethane	9.6		0.5	ug/L	10.00		96% (70-130%)	4% (20%)	
1,1-Dichloroethane	10.2		0.5	ug/L	10.00		102% (70-130%)	6% (20%)	
1,1-Dichloroethene	9.7		0.5	ug/L	10.00		97% (70-130%)	6% (20%)	
1,1-Dichloropropene	10.3		0.5	ug/L	10.00		103% (70-130%)	4% (20%)	
1,2,3-Trichlorobenzene	11.5		0.5	ug/L	10.00		115% (70-130%)	6% (20%)	
1,2,3-Trichloropropane	8.9		0.5	ug/L	10.00		89% (70-130%)	5% (20%)	
1,2,4-Trichlorobenzene	11.7		0.5	ug/L	10.00		117% (70-130%)	6% (20%)	
1,2,4-Trimethylbenzene	11.2		0.5	ug/L	10.00		112% (70-130%)	5% (20%)	
1,2-Dichlorobenzene	10.1		0.5	ug/L	10.00		101% (70-130%)	6% (20%)	
1,2-Dichloroethane	9.6		0.5	ug/L	10.00		96% (70-130%)	3% (20%)	
1,2-Dichloropropane	9.9		0.5	ug/L	10.00		99% (70-130%)	4% (20%)	
1,3,5-Trimethylbenzene	11.1		0.5	ug/L	10.00		111% (70-130%)	6% (20%)	
1,3-Dichlorobenzene	10.6		0.5	ug/L	10.00		106% (70-130%)	5% (20%)	
1,3-Dichloropropane	10.1		0.5	ug/L	10.00		101% (70-130%)	5% (20%)	
1,4-Dichlorobenzene	10.4		0.5	ug/L	10.00		104% (70-130%)	6% (20%)	
2,2-Dichloropropane	9.8		0.5	ug/L	10.00		98% (70-130%)	5% (20%)	
2-Butanone	46.6		10.0	ug/L	50.00		93% (50-150%)	5% (20%)	
2-Chlorotoluene	10.7		0.5	ug/L	10.00		107% (70-130%)	6% (20%)	
4-Chlorotoluene	10.6		0.5	ug/L	10.00		106% (70-130%)	6% (20%)	
4-Isopropyltoluene	10.7		0.5	ug/L	10.00		107% (70-130%)	6% (20%)	
4-Methyl-2-Pentanone	45.5		5.0	ug/L	50.00		91% (50-150%)	2% (20%)	
Acetone	39.6		5.0	ug/L	50.00		79% (50-150%)	5% (20%)	
Benzene	10.3		0.5	ug/L	10.00		103% (70-130%)	4% (20%)	
Bromobenzene	10.6		0.5	ug/L	10.00		106% (70-130%)	6% (20%)	
Bromochloromethane	9.8		0.5	ug/L	10.00		98% (70-130%)	5% (20%)	
Bromodichloromethane	10.8		0.5	ug/L	10.00		108% (70-130%)	3% (20%)	
Bromoform	10.3		0.5	ug/L	10.00		103% (70-130%)	3% (20%)	
Bromomethane	9.3		0.5	ug/L	10.00		93% (70-130%)	6% (20%)	

ESS Laboratory
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BAL Laboratory Analytical Balance

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Quality Control Data

524.2 Volatile Organic Compounds

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS Dup									
Carbon Tetrachloride	10.6		0.5	ug/L	10.00		106% (70-130%)	5% (20%)	
Chlorobenzene	10.6		0.5	ug/L	10.00		106% (70-130%)	5% (20%)	
Chloroethane	9.1		0.5	ug/L	10.00		91% (70-130%)	5% (20%)	
Chloroform	9.4		0.5	ug/L	10.00		94% (70-130%)	6% (20%)	
Chloromethane	8.7		0.5	ug/L	10.00		87% (70-130%)	4% (20%)	
cis-1,2-Dichloroethene	10.2		0.5	ug/L	10.00		102% (70-130%)	6% (20%)	
cis-1,3-Dichloropropene	10.8		0.3	ug/L	10.00		108% (70-130%)	3% (20%)	
Dibromochloromethane	11.0		0.4	ug/L	10.00		110% (70-130%)	5% (20%)	
Dibromomethane	10.0		0.5	ug/L	10.00		100% (70-130%)	2% (20%)	
Dichlorodifluoromethane	6.6		0.5	ug/L	10.00		66% (70-130%)	5% (20%)	B-
Di-isopropyl ether	10.0		1.0	ug/L	10.00		100% (70-130%)	5% (20%)	
Ethyl tertiary-butyl ether	9.0		1.0	ug/L	10.00		90% (70-130%)	0.1% (20%)	
Ethylbenzene	11.1		0.5	ug/L	10.00		111% (70-130%)	5% (20%)	
Hexachlorobutadiene	10.4		0.4	ug/L	10.00		104% (70-130%)	6% (20%)	
Isopropylbenzene	12.2		0.5	ug/L	10.00		122% (70-130%)	5% (20%)	
Methyl tert-Butyl Ether	9.9		0.5	ug/L	10.00		99% (70-130%)	2% (20%)	
Methylene Chloride	10.7		0.5	ug/L	10.00		107% (70-130%)	25% (20%)	D+
Naphthalene	10.7		0.5	ug/L	10.00		107% (70-130%)	6% (20%)	
n-Butylbenzene	10.9		0.5	ug/L	10.00		109% (70-130%)	6% (20%)	
n-Propylbenzene	11.2		0.5	ug/L	10.00		112% (70-130%)	6% (20%)	
sec-Butylbenzene	10.6		0.5	ug/L	10.00		106% (70-130%)	6% (20%)	
Styrene	11.0		0.5	ug/L	10.00		110% (70-130%)	6% (20%)	
tert-Butylbenzene	11.1		0.5	ug/L	10.00		111% (70-130%)	6% (20%)	
Tertiary-amyl methyl ether	10.1		1.0	ug/L	10.00		101% (70-130%)	0.7% (20%)	
Tertiary-butyl Alcohol	41.2		5.0	ug/L	50.00		82% (70-130%)	3% (25%)	
Tetrachloroethene	10.8		0.5	ug/L	10.00		108% (70-130%)	4% (20%)	
Tetrahydrofuran	7.0		10.0	ug/L	10.00		70% (50-150%)	3% (20%)	
Toluene	10.8		0.5	ug/L	10.00		108% (70-130%)	4% (20%)	
trans-1,2-Dichloroethene	10.8		0.5	ug/L	10.00		108% (70-130%)	5% (20%)	
trans-1,3-Dichloropropene	10.1		0.3	ug/L	10.00		101% (70-130%)	3% (20%)	
Trichloroethene	10.2		0.5	ug/L	10.00		102% (70-130%)	3% (20%)	
Trichlorofluoromethane	8.8		0.5	ug/L	10.00		88% (70-130%)	6% (20%)	
Vinyl Chloride	9.5		0.5	ug/L	10.00		95% (70-130%)	5% (20%)	
Xylene O	10.8		0.5	ug/L	10.00		108% (70-130%)	7% (20%)	

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127

Date Received: 04/03/2024

Quality Control Data

524.2 Volatile Organic Compounds

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS Dup									
Xylene P,M	22.1		0.5	ug/L	20.00		110% (70-130%)	6% (20%)	
1,2-Dichlorobenzene-d4	5.22		0.2	ug/L	5.000		104% (80-120%)		
4-Bromofluorobenzene	5.24		0.2	ug/L	5.000		105% (80-120%)		

Classical Chemistry

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch DD40330 - General Preparation - HACH									
Blank									
Color	ND		5	Color Units					
Batch DD40331 - General Preparation - 180.1									
Blank									
Turbidity	ND		1.0	NTU					
LCS									
Turbidity	3.9			NTU	4.000		96% (90-110%)		
Batch DD40421 - TCN Prep - 4500 CN CE									
Blank									
Total Cyanide	ND		0.0050	mg/L					
LCS									
Total Cyanide	0.0202		0.0050	mg/L	0.02006		101% (90-110%)		
LCS									
Total Cyanide	0.149		0.0050	mg/L	0.1504		99% (90-110%)		
LCS Dup									
Total Cyanide	0.150		0.0050	mg/L	0.1504		100% (90-110%)	0.6% (20%)	
Batch DD40813 - NH4 Prep - 350.1									
Blank									
Ammonia as N	ND		0.10	mg/L					
LCS									
Ammonia as N	0.98		0.10	mg/L	0.9994		98% (80-120%)		
Batch DD40816 - General Preparation - 300.0									
Blank									
Chloride	ND		0.5	mg/L					
Fluoride	ND		0.100	mg/L					
Sulfate	ND		0.5	mg/L					

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Classical Chemistry

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS									
Chloride	9.5			mg/L	10.00		95% (90-110%)		
Fluoride	2.03			mg/L	2.000		102% (90-110%)		
Sulfate	9.7			mg/L	10.00		97% (90-110%)		
Duplicate **Source: 24D0127-01**									
Chloride	4.4		0.5	mg/L		4.4		0.9% (20%)	
Fluoride	0.281		0.100	mg/L		0.282		0.5% (20%)	
Sulfate	9.8		0.5	mg/L		9.8		0.2% (20%)	
Matrix Spike **Source: 24D0127-01**									
Chloride	14.7			mg/L	10.00	4.4	103% (90-110%)		
Fluoride	2.32			mg/L	2.000	0.282	102% (90-110%)		
Sulfate	19.3			mg/L	10.00	9.8	94% (90-110%)		
Batch DD40823 - General Preparation - 2540C									
Blank									
Total Dissolved Solids	ND		10	mg/L					
LCS									
Total Dissolved Solids	400			mg/L	392.0		102% (80-120%)		
Duplicate **Source: 24D0127-01**									
Total Dissolved Solids	100		10	mg/L		96		4% (10%)	
Batch DD40842 - General Preparation - 2320B									
Blank									
Alkalinity as CaCO3	ND		10	mg/L					
LCS									
Alkalinity as CaCO3	96			mg/L	90.20		106% (85-115%)		

Perfluorinated Alkyl Acids

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch DD40812 - 537.1 - 537.1									
Blank									
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	0.30	1.00	ng/L					
4,8-Dioxa-3H-perfluorononanoic acid	ND	0.30	1.00	ng/L					
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND	0.30	1.00	ng/L					
Hexafluoropropylene oxide dimer acid	ND	0.30	1.00	ng/L					
N-ethyl perfluorooctanesulfonamidoacetic acid	ND	0.30	1.00	ng/L					

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Quality Control Data

Perfluorinated Alkyl Acids

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Blank									
N-methyl perfluorooctanesulfonamidoacetic acid	ND	0.30	1.00	ng/L					
Perfluorobutanesulfonic acid	ND	0.30	1.00	ng/L					
Perfluorodecanoic acid	ND	0.30	1.00	ng/L					
Perfluorododecanoic acid	ND	0.30	1.00	ng/L					
Perfluoroheptanoic acid	ND	0.30	1.00	ng/L					
Perfluorohexanesulfonic acid	ND	0.30	1.00	ng/L					
Perfluorohexanoic acid	ND	0.30	1.00	ng/L					
Perfluorononanoic acid	ND	0.30	1.00	ng/L					
Perfluorooctanesulfonic acid	ND	0.30	1.00	ng/L					
Perfluorooctanoic acid	ND	0.30	1.00	ng/L					
Perfluorotetradecanoic acid	ND	0.30	1.00	ng/L					
Perfluorotridecanoic acid	ND	0.30	1.00	ng/L					
Perfluoroundecanoic acid	ND	0.30	1.00	ng/L					
N-deuterioethylperfluoro-1-octanesulfonamidoacetic	160			ng/L	160.0				
Perfluoro-n-[1,2-13C2]decanoic acid	41.2			ng/L	40.00				
Perfluoro-n-[1,2-13C2]hexanoic acid	41.4			ng/L	40.00				
Tetrafluoro-2-heptafluoropropoxy-13C3-propanoic ac	43.5			ng/L	40.00				
LCS									
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.43	0.30	1.00	ng/L	0.3780		114% (50-150%)		J
4,8-Dioxa-3H-perfluorononanoic acid	0.47	0.30	1.00	ng/L	0.3780		125% (50-150%)		J
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.44	0.30	1.00	ng/L	0.3740		119% (50-150%)		J
Hexafluoropropylene oxide dimer acid	0.50	0.30	1.00	ng/L	0.4000		126% (50-150%)		J
N-ethyl perfluorooctanesulfonamidoacetic acid	0.44	0.30	1.00	ng/L	0.4000		110% (50-150%)		J
N-methyl perfluorooctanesulfonamidoacetic acid	0.46	0.30	1.00	ng/L	0.4000		115% (50-150%)		J
Perfluorobutanesulfonic acid	0.42	0.30	1.00	ng/L	0.3540		118% (50-150%)		J
Perfluorodecanoic acid	0.49	0.30	1.00	ng/L	0.4000		123% (50-150%)		J
Perfluorododecanoic acid	0.47	0.30	1.00	ng/L	0.4000		117% (50-150%)		J
Perfluoroheptanoic acid	0.51	0.30	1.00	ng/L	0.4000		127% (50-150%)		J
Perfluorohexanesulfonic acid	0.43	0.30	1.00	ng/L	0.3650		119% (50-150%)		J
Perfluorohexanoic acid	0.55	0.30	1.00	ng/L	0.4000		138% (50-150%)		J
Perfluorononanoic acid	0.52	0.30	1.00	ng/L	0.4000		130% (50-150%)		J
Perfluorooctanesulfonic acid	0.47	0.30	1.00	ng/L	0.3704		127% (50-150%)		J
Perfluorooctanoic acid	0.56	0.30	1.00	ng/L	0.4000		140% (50-150%)		J
Perfluorotetradecanoic acid	0.46	0.30	1.00	ng/L	0.4000		115% (50-150%)		J

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Quality Control Data

Perfluorinated Alkyl Acids

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS									
Perfluorotridecanoic acid	0.47	0.30	1.00	ng/L	0.4000		116% (50-150%)		J
Perfluoroundecanoic acid	0.49	0.30	1.00	ng/L	0.4000		122% (50-150%)		J
N-deuterioethylperfluoro-1-octanesulfonamidoacetic	164			ng/L	160.0		103% (70-130%)		
Perfluoro-n-[1,2-13C2]decanoic acid	43.4			ng/L	40.00		108% (70-130%)		
Perfluoro-n-[1,2-13C2]hexanoic acid	45.7			ng/L	40.00		114% (70-130%)		
Tetrafluoro-2-heptafluoropropoxy-13C3-propanoic ac	47.1			ng/L	40.00		118% (70-130%)		
LCS Dup									
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.45	0.30	1.00	ng/L	0.3780		118% (50-150%)	3% (30%)	J
4,8-Dioxa-3H-perfluorononanoic acid	0.49	0.30	1.00	ng/L	0.3780		130% (50-150%)	4% (30%)	J
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.47	0.30	1.00	ng/L	0.3740		126% (50-150%)	6% (30%)	J
Hexafluoropropylene oxide dimer acid	0.53	0.30	1.00	ng/L	0.4000		132% (50-150%)	5% (30%)	J
N-ethyl perfluorooctanesulfonamidoacetic acid	0.41	0.30	1.00	ng/L	0.4000		103% (50-150%)	7% (30%)	J
N-methyl perfluorooctanesulfonamidoacetic acid	0.49	0.30	1.00	ng/L	0.4000		123% (50-150%)	6% (30%)	J
Perfluorobutanesulfonic acid	0.43	0.30	1.00	ng/L	0.3540		121% (50-150%)	2% (30%)	J
Perfluorodecanoic acid	0.51	0.30	1.00	ng/L	0.4000		127% (50-150%)	3% (30%)	J
Perfluorododecanoic acid	0.48	0.30	1.00	ng/L	0.4000		119% (50-150%)	2% (30%)	J
Perfluoroheptanoic acid	0.52	0.30	1.00	ng/L	0.4000		129% (50-150%)	2% (30%)	J
Perfluorohexanesulfonic acid	0.43	0.30	1.00	ng/L	0.3650		119% (50-150%)	0.2% (30%)	J
Perfluorohexanoic acid	0.56	0.30	1.00	ng/L	0.4000		140% (50-150%)	1% (30%)	J
Perfluorononanoic acid	0.53	0.30	1.00	ng/L	0.4000		133% (50-150%)	3% (30%)	J
Perfluorooctanesulfonic acid	0.49	0.30	1.00	ng/L	0.3704		132% (50-150%)	4% (30%)	J
Perfluorooctanoic acid	0.55	0.30	1.00	ng/L	0.4000		137% (50-150%)	2% (30%)	J
Perfluorotetradecanoic acid	0.48	0.30	1.00	ng/L	0.4000		119% (50-150%)	4% (30%)	J
Perfluorotridecanoic acid	0.47	0.30	1.00	ng/L	0.4000		118% (50-150%)	2% (30%)	J
Perfluoroundecanoic acid	0.52	0.30	1.00	ng/L	0.4000		131% (50-150%)	7% (30%)	J
N-deuterioethylperfluoro-1-octanesulfonamidoacetic	150			ng/L	160.0		94% (70-130%)		
Perfluoro-n-[1,2-13C2]decanoic acid	40.6			ng/L	40.00		101% (70-130%)		
Perfluoro-n-[1,2-13C2]hexanoic acid	42.1			ng/L	40.00		105% (70-130%)		
Tetrafluoro-2-heptafluoropropoxy-13C3-propanoic ac	41.9			ng/L	40.00		105% (70-130%)		

Quality Control Data

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Matt Kissane
Fuss & O'Neill, Inc.
1550 Main Street, Suite 400
Springfield, MA 01103

Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Quality Control Data

EPA 331.0

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch 95223 - General Prep - EPA 331.0									
Blank									
Perchlorate	ND	0.012	0.050	ug/L					
LCS									
Perchlorate	0.0532	0.012	0.050	ug/L	0.0500		106% (50-150%)		

EPA 504.1

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch 95055 - General Prep - EPA 504.1									
Blank									
1,2-Dibromo-3-Chloropropane	ND	0.0060	0.010	ug/L					
1,2-Dibromoethane (EDB)	ND	0.0050	0.010	ug/L					
LCS									
1,2-Dibromo-3-Chloropropane	0.228	0.0060	0.010	ug/L	0.250		91% (70-130%)		
1,2-Dibromoethane (EDB)	0.233	0.0050	0.010	ug/L	0.250		93% (70-130%)		
LCS									
1,2-Dibromo-3-Chloropropane	0.244	0.0060	0.010	ug/L	0.250		97% (70-130%)		
1,2-Dibromoethane (EDB)	0.248	0.0050	0.010	ug/L	0.250		99% (70-130%)		
LCS									
1,2-Dibromo-3-Chloropropane	0.00950	0.0060	0.010	ug/L	0.0100		95% (50-150%)		Ja
1,2-Dibromoethane (EDB)	0.0114	0.0050	0.010	ug/L	0.0100		114% (50-150%)		

EPA 505

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch 95014 - General Prep - EPA 505									
Blank									
Chlordane (technical)	ND	0.040	0.10	ug/L					
PCB-1016	ND	0.079	0.080	ug/L					
PCB-1221	ND	0.050	0.10	ug/L					
PCB-1232	ND	0.070	0.10	ug/L					
PCB-1242	ND	0.050	0.10	ug/L					
PCB-1248	ND	0.080	0.10	ug/L					
PCB-1254	ND	0.070	0.10	ug/L					

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127

Date Received: 04/03/2024

Quality Control Data

EPA 505

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Blank									
PCB-1260	ND	0.040	0.10	ug/L					
Toxaphene	ND	0.060	0.50	ug/L					
LCS									
Chlordane (technical)	0.0967	0.040	0.10	ug/L	0.100		97% (50-150%)		Ja
LCS									
Toxaphene	0.426	0.060	0.50	ug/L	0.500		85% (50-150%)		Ja
Duplicate **Source: 810-99893-1**									
Chlordane (technical)	ND	0.040	0.10	ug/L		ND	0% (-%)	0% (30%)	
PCB-1016	ND	0.079	0.080	ug/L		ND	0% (-%)	0% (30%)	
PCB-1221	ND	0.050	0.10	ug/L		ND	0% (-%)	0% (30%)	
PCB-1232	ND	0.070	0.10	ug/L		ND	0% (-%)	0% (30%)	
PCB-1242	ND	0.050	0.10	ug/L		ND	0% (-%)	0% (30%)	
PCB-1248	ND	0.080	0.10	ug/L		ND	0% (-%)	0% (30%)	
PCB-1254	ND	0.070	0.10	ug/L		ND	0% (-%)	0% (30%)	
PCB-1260	ND	0.040	0.10	ug/L		ND	0% (-%)	0% (30%)	
Toxaphene	ND	0.060	0.50	ug/L		ND	0% (-%)	0% (30%)	

EPA 515.3

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch 95193 - General Prep - EPA 515.3									
Blank									
2,4,5-TP (Silvex)	ND	0.030	0.10	ug/L					
2,4-D	ND	0.080	0.10	ug/L					
2,4-Dichlorophenylacetic acid	26.7			ug/L	25.0				
Dalapon	ND	0.40	1.0	ug/L					
Dicamba	ND	0.080	0.10	ug/L					
Dinoseb	ND	0.090	0.10	ug/L					
Pentachlorophenol	ND	0.010	0.040	ug/L					
Picloram	ND	0.030	0.10	ug/L					
LCS									
2,4,5-TP (Silvex)	0.108	0.030	0.10	ug/L	0.100		108% (48-148%)		
2,4-D	0.179	0.080	0.10	ug/L	0.200		90% (24-138%)		
2,4-Dichlorophenylacetic acid	25.9			ug/L	25.0		103% (70-130%)		

ESS Laboratory
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BAL Laboratory Analytical Balance

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Quality Control Data

EPA 515.3

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS									
Dinoseb	0.276	0.090	0.10	ug/L	0.200		138% (39-141%)		
Pentachlorophenol	0.0490	0.010	0.040	ug/L	0.0400		122% (30-171%)		
Picloram	0.0809	0.030	0.10	ug/L	0.100		81% (24-150%)		Ja

EPA 525.2

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch 95147 - General Prep - EPA 525.2									
Blank									
2-Nitro-m-xylene (Surr)	4.24			ug/L	4.94				
Alachlor	ND	0.0099	0.099	ug/L					
Aldrin	ND	0.0081	0.099	ug/L					
Atrazine	ND	0.0099	0.099	ug/L					
Benzo[a]pyrene	ND	0.012	0.020	ug/L					
Butachlor	ND	0.020	0.099	ug/L					
Di (2-ethylhexyl)phthalate	ND	0.099	0.60	ug/L					
Di(2-ethylhexyl)adipate	ND	0.020	0.60	ug/L					
Dieldrin	ND	0.020	0.040	ug/L					
Endrin	ND	0.0098	0.0099	ug/L					
gamma-BHC (Lindane)	ND	0.0084	0.020	ug/L					
Heptachlor	ND	0.0044	0.0099	ug/L					
Heptachlor epoxide	ND	0.0040	0.0099	ug/L					
Hexachlorobenzene	ND	0.0099	0.099	ug/L					
Hexachlorocyclopentadiene	ND	0.0099	0.099	ug/L					
Methoxychlor	ND	0.0099	0.099	ug/L					
Metolachlor	ND	0.0099	0.099	ug/L					
Metribuzin	ND	0.0099	0.099	ug/L					
Perylene-d12 (Surr)	4.75			ug/L	4.98				
Propachlor	ND	0.0099	0.099	ug/L					
Simazine	ND	0.030	0.070	ug/L					
Triphenylphosphate (Surr)	4.61			ug/L	4.98				
LCS									
2-Nitro-m-xylene (Surr)	4.38			ug/L	4.98		88% (70-130%)		
Aldrin	0.0640	0.0081	0.10	ug/L	0.0702		91% (50-150%)		Ja

ESS Laboratory
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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Quality Control Data

EPA 525.2

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS									
Butachlor	0.104	0.020	0.10	ug/L	0.100		104% (50-150%)		
Di (2-ethylhexyl)phthalate	0.667	0.10	0.60	ug/L	0.601		111% (50-150%)		
Di(2-ethylhexyl)adipate	0.704	0.020	0.60	ug/L	0.601		117% (50-150%)		
Dieldrin	0.0269	0.020	0.040	ug/L	0.0200		134% (50-150%)		Ja
Endrin	0.0104	0.0099	0.010	ug/L	0.0100		104% (50-150%)		
gamma-BHC (Lindane)	0.0188	0.0084	0.020	ug/L	0.0200		94% (50-150%)		Ja
Heptachlor	0.0114	0.0044	0.010	ug/L	0.0100		114% (50-150%)		
Heptachlor epoxide	0.0106	0.0040	0.010	ug/L	0.0100		106% (50-150%)		
Hexachlorobenzene	0.0884	0.010	0.10	ug/L	0.100		88% (50-150%)		Ja
Hexachlorocyclopentadiene	0.0647	0.010	0.10	ug/L	0.100		65% (50-150%)		Ja
Methoxychlor	0.0818	0.010	0.10	ug/L	0.100		82% (50-150%)		Ja
Metolachlor	0.0934	0.010	0.10	ug/L	0.100		93% (50-150%)		Ja
Metribuzin	0.101	0.010	0.10	ug/L	0.100		101% (50-150%)		
Perylene-d12 (Surr)	4.75			ug/L	5.02		95% (70-130%)		
Propachlor	0.0828	0.010	0.10	ug/L	0.100		83% (50-150%)		Ja
Simazine	0.0409	0.030	0.070	ug/L	0.0702		58% (50-150%)		Ja
Triphenylphosphate (Surr)	4.70			ug/L	5.02		94% (70-130%)		
LCS									
2-Nitro-m-xylene (Surr)	4.49			ug/L	4.96		90% (70-130%)		
Aldrin	2.18	0.0081	0.10	ug/L	2.00		109% (70-130%)		
Butachlor	2.31	0.020	0.10	ug/L	2.00		116% (70-130%)		
Di (2-ethylhexyl)phthalate	1.94	0.10	0.60	ug/L	2.00		97% (70-130%)		
Di(2-ethylhexyl)adipate	2.13	0.020	0.60	ug/L	2.00		107% (70-130%)		
Dieldrin	2.58	0.020	0.040	ug/L	2.00		129% (70-130%)		
Endrin	2.23	0.0099	0.010	ug/L	2.00		112% (70-130%)		
gamma-BHC (Lindane)	2.19	0.0084	0.020	ug/L	2.00		110% (70-130%)		
Heptachlor	2.31	0.0044	0.010	ug/L	2.00		116% (70-130%)		
Heptachlor epoxide	1.96	0.0040	0.010	ug/L	2.00		98% (70-130%)		
Hexachlorobenzene	1.95	0.010	0.10	ug/L	2.00		98% (70-130%)		
Hexachlorocyclopentadiene	1.80	0.010	0.10	ug/L	2.00		90% (70-130%)		
Methoxychlor	1.96	0.010	0.10	ug/L	2.00		98% (70-130%)		
Metolachlor	2.04	0.010	0.10	ug/L	2.00		102% (70-130%)		
Metribuzin	2.31	0.010	0.10	ug/L	2.00		116% (70-130%)		
Perylene-d12 (Surr)	4.87			ug/L	4.99		98% (70-130%)		

CERTIFICATE OF ANALYSIS

Matt Kissane
Fuss & O'Neill, Inc.
1550 Main Street, Suite 400
Springfield, MA 01103

Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127

Date Received: 04/03/2024

Quality Control Data

EPA 525.2

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
LCS									
Propachlor	2.06	0.010	0.10	ug/L	2.00		103% (70-130%)		
Simazine	2.01	0.030	0.070	ug/L	2.00		101% (70-130%)		
Triphenylphosphate (Surr)	4.54			ug/L	5.00		91% (70-130%)		

EPA 531.2

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Batch 95270 - General Prep - EPA 531.2									
Blank									
1-Naphthol	ND	0.30	1.0	ug/L					
3-Hydroxycarbofuran	ND	0.20	0.50	ug/L					
Aldicarb	ND	0.20	0.50	ug/L					
Aldicarb sulfone	ND	0.20	0.70	ug/L					
Aldicarb sulfoxide	ND	0.20	0.50	ug/L					
Baygon (Propoxur)	ND	0.20	0.50	ug/L					
Carbaryl	ND	0.20	0.50	ug/L					
Carbofuran	ND	0.30	0.90	ug/L					
Methiocarb	ND	0.40	1.0	ug/L					
Methomyl	ND	0.30	0.50	ug/L					
Oxamyl	ND	0.30	1.0	ug/L					
Matrix Spike Dup Source: 810-99893-1									
1-Naphthol	1.99	0.30	1.0	ug/L	2.00	ND	99% (70-130%)	5% (30%)	
3-Hydroxycarbofuran	1.81	0.20	0.50	ug/L	2.00	ND	90% (70-130%)	1% (30%)	
Aldicarb	1.85	0.20	0.50	ug/L	2.00	ND	92% (70-130%)	1% (30%)	
Aldicarb sulfone	1.69	0.20	0.70	ug/L	2.00	ND	84% (70-130%)	1% (30%)	
Aldicarb sulfoxide	1.82	0.20	0.50	ug/L	2.00	ND	91% (70-130%)	1% (30%)	
Baygon (Propoxur)	1.70	0.20	0.50	ug/L	2.00	ND	85% (70-130%)	1% (30%)	
Carbaryl	1.76	0.20	0.50	ug/L	2.00	ND	88% (70-130%)	4% (30%)	
Carbofuran	1.87	0.30	0.90	ug/L	2.00	ND	93% (70-130%)	2% (30%)	
Methiocarb	1.71	0.40	1.0	ug/L	2.00	ND	86% (70-130%)	5% (30%)	
Methomyl	1.82	0.30	0.50	ug/L	2.00	ND	91% (70-130%)	4% (30%)	
Oxamyl	1.88	0.30	1.0	ug/L	2.00	ND	94% (70-130%)	4% (30%)	
Matrix Spike Source: 810-99893-1									
1-Naphthol	1.89	0.30	1.0	ug/L	2.00	ND	94% (70-130%)		

ESS Laboratory
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Quality Control Data

EPA 531.2

Parameter	Result	MDL	MRL	Units	Spike Level	Source Result	Recovery and Limits	RPD and Limits	Qualifier
Matrix Spike **Source: 810-99893-1**									
3-Hydroxycarbofuran	1.82	0.20	0.50	ug/L	2.00	ND	91% (70-130%)		
Aldicarb	1.84	0.20	0.50	ug/L	2.00	ND	92% (70-130%)		
Aldicarb sulfone	1.71	0.20	0.70	ug/L	2.00	ND	86% (70-130%)		
Aldicarb sulfoxide	1.80	0.20	0.50	ug/L	2.00	ND	90% (70-130%)		
Baygon (Propoxur)	1.72	0.20	0.50	ug/L	2.00	ND	86% (70-130%)		
Carbaryl	1.83	0.20	0.50	ug/L	2.00	ND	91% (70-130%)		
Carbofuran	1.91	0.30	0.90	ug/L	2.00	ND	95% (70-130%)		
Methiocarb	1.79	0.40	1.0	ug/L	2.00	ND	90% (70-130%)		
Methomyl	1.74	0.30	0.50	ug/L	2.00	ND	87% (70-130%)		
Oxamyl	1.80	0.30	1.0	ug/L	2.00	ND	90% (70-130%)		

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Project Name: Shutesbury PWS Pumping Test 20091032.A11

Work Order Number: 24D0127
Date Received: 04/03/2024

Work Order Narrative

Revision 1 May 13, 2024: This report has been revised to include Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, Nickel, Selenium, Sodium, Thallium and Fluoride per the client's request.

See the Notes and Definitions section for further information regarding data qualifiers.

Notes and Definitions

B-	Blank Spike recovery is below lower control limit (B-).
B+	Blank Spike recovery is above upper control limit (B+).
D+	Relative percent difference for duplicate is outside of criteria (D+).
H	Estimated value. Sample hold times were exceeded (H).
Ha	Estimated value. Sample hold times were exceeded.
HT	The maximum holding time listed in 40 CFR Part 136 Table II for pH, Dissolved Oxygen, Sulfite and Residual Chlorine is fifteen minutes.
Ja	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
MT	Due to high target values, matrix spike analyte(s) is masked (MT).
J	Reported between MDL and MRL
CFU	Colony Forming Units
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too Numerous to Count
dry	Sample results reported on a dry weight basis

CHAIN OF CUSTODY

ESS LABORATORY
185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
[redacted]
www.esslaboratory.com

ESS Lab # 24D0127 | Page of

Turn Time ☐ >5 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: **Criteria:**

Is this project for any of the following?:
☐ CT RCP ☑ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)
☐ Limit Checker ☐ State Forms ☐ EQuIS
☐ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☐ Other (Specify) →

CLIENT INFORMATION

Client: Fuss and O'Neill
Address: 1550 Main Street, Suite 4[illegible]
Springfield, mass
Phone:
Email Distribution List:

PROJECT INFORMATION

Project Name: Shutesbury PWS Pumping test
Project Location: Shutesbury, MASS
Project Number: 20091032.A11
Project Manager: Matt Icisseme
Bill to: Matt Icisseme
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Total Coliforms	Gross Alpha Wit	SOC	Perchlorate	Secondary Contaminants**	Metals	Cyanide	Ammonia	Other	VOC 524	8 PFAS	Total Number of Bottles
1	4/3/24	1436	Drinking Water		183824040 3-02	1	1	1	1	1	3	1	1	1	1	2	11
	1																

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Sampled by : Jon Kimbrough

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only
Cooler Temperature (°C): 4

Comments: * Please specify "Other" preservative and containers types in this space

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration
☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Jon Kimbrough	4/3/24	1436	4/3/24 15:03	4/3/24		17:07	Payton Davis
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Fuss & O'Neill, Inc. - TJM

Shipped/Delivered Via: ESS Courier

ESS Project ID: 24D0127
Date Received: 4/3/2024
Project Due Date: 4/10/2024
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 0.2 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** (Yes) / No / NA
10. Were any analyses received outside of hold time? Yes / (No)

11. Any Subcontracting needed? (Yes) / No
    ESS Sample IDs: 1
    Analysis: **Odor, Perchlorate, T. Coliform, SOC,**
    TAT: **Gross alpha 5 day**
12. Were VOAs received? (Yes) / No
    a. Air bubbles in aqueous VOAs? Yes / (No)
    b. Does methanol cover soil completely? Yes / No / NA
13. Are the samples properly preserved? Yes / (No)
    a. If metals preserved upon receipt: Date: ____ Time: ____ By/Acid Lot#: ____
    b. If dissolved metals are requested, are they: Yes / No Field Filtered
    c. Low Level VOA vials frozen: Date: ____ Time: ____ Yes / No To Be Lab Filtered By: ____

Sample Receiving Notes:

One other glass from SOC kit received empty. One 250 sulfuric poly received empty- cannot run ammonia.

FRB for PFAS added as sample 2. VOA TB added as sample 3. Secondary contaminants starred on COC-

no further explaination in comment section.

14. Was there a need to contact Project Manager? (Yes) / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? ____ Date: ____ Time: ____ By: ____

Resolution:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	535052	Yes	N/A	Yes	100 mL Bacti	NP	
1	535053	Yes	N/A	Yes	Other Poly	NP	
1	535054	Yes	N/A	Yes	Other Poly	Trizma	
1	535055	Yes	N/A	Yes	Other Poly	Trizma	
1	535056	Yes	No	Yes	VOA Vial	HCl	
1	535057	Yes	No	Yes	VOA Vial	HCl	
1	535058	Yes	No	Yes	VOA Vial	HCl	
1	535059	Yes	N/A	Yes	250 mL Amber	NP	
1	535060	Yes	N/A	Yes	250 mL Poly	NaOH pH>12	
1	535061	Yes	N/A	Yes	250 mL Poly	HNO3	
1	535134	Yes	N/A	Yes	250 mL Poly	HNO3	
1	535135	Yes	N/A	Yes	250 mL Poly	HNO3	
1	535136	Yes	N/A	Yes	1L Poly	NP	
1	535137	Yes	N/A	Yes	Other Poly	HNO3	
1	535138	Yes	N/A	Yes	Other Poly	HNO3	
1	535139	Yes	N/A	Yes	Other Poly	HNO3	
1	535140	Yes	N/A	Yes	1L Amber	Other	
1	535141	Yes	N/A	Yes	1L Amber	Other	
1	535142	Yes	N/A	Yes	Other Glass	Other	
1	535143	Yes	No	Yes	VOA Vial	Na2S2O3	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Fuss & O'Neill, Inc. - TJM

ESS Project ID: 24D0127

Date Received: 4/3/2024

1	535144	Yes	No	Yes	VOA Vial	Na2S2O3
1	535145	Yes	No	Yes	VOA Vial	Na2S2O3
1	535146	Yes	No	Yes	VOA Vial	Na2S2O3
1	535147	Yes	No	Yes	VOA Vial	Other
1	535148	Yes	No	Yes	VOA Vial	Other
1	535149	Yes	No	Yes	VOA Vial	NP
1	535150	Yes	No	Yes	VOA Vial	NP
1	535151	Yes	No	Yes	VOA Vial	NP
2	535152	Yes	N/A	Yes	Other Poly	Trizma
3	535153	Yes	No	Yes	VOA Vial	Na2S2O3

2nd Review

Were all containers scanned into storage/lab? Initials TD

Are barcode labels on correct containers? Yes / No

Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA

Are all Hex Chrome stickers attached? Yes / No / NA

Are all QC stickers attached? Yes / No / NA

Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: [signature] Date & Time: 1743 4/3/24

Reviewed By: [signature] Date & Time: 4/3/24 1749

CHAIN OF CUSTODY

ESS LABORATORY
185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
[redacted]
www.esslaboratory.com

ESS Lab # 24D0127 | Page of

Turn Time: ☐ >5 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: Criteria:

Is this project for any of the following?: ☐ CT RCP ☑ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)
☐ Limit Checker ☐ State Forms ☐ EQuIS
☐ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☐ Other (Specify) →

CLIENT INFORMATION

Client: Fuss and O'Neill
Address: 1550 Main Street, Suite 4[illegible]
Springfield, mass
Phone:
Email Distribution List:

PROJECT INFORMATION

Project Name: Shutesbury PWS Pumping test
Project Location: Shutesbury, MASS
Project Number: 20091032.A11
Project Manager: Matt Icisseme
Bill to: Matt Icisseme
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Total Coliforms	Gross Alpha Wit	SOC	Perchlorate	Secondary Contaminants**	Metals	Cyanide	Ammonia	Odor	VOC 524	6 PFAS	Mercury	Fluoride	Sb, As, Ba, Be, Cd, Cr, Pb	Ni, Se, Na, Tl	ML - 5/9/24	Total Number of Bottles
1	4/3/24	1436	Drinking Water		183824040 3-02	1	1	1	1	1	3	1	1	1	1	2						11

Secondary Contaminents per client - JA 4/5/2024

1 — total dissolved solids, color, odor, pH, total alkalinity (CaCO3), hardness (CaCO3), calcium, manganese, potassium, iron, magnesium, sulfate, chloride, silver, turbidity, aluminum, zinc, and copper

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Sampled by : Jon Kimbrough

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only
Cooler Temperature (°C): 4

Comments: * Please specify "Other" preservative and containers types in this space

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration
☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Jon Kimbrough	4/3/24	1436	[illegible] 4/3/24 15:03	4/3/24		17:07	Payton Davis
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Fuss & O'Neill, Inc. - TJM

Shipped/Delivered Via: ESS Courier

ESS Project ID: 24D0127
Date Received: 4/3/2024
Project Due Date: 4/10/2024
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 0.2 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** (Yes) / No / NA
10. Were any analyses received outside of hold time? Yes / (No)

11. Any Subcontracting needed? (Yes) / No
    ESS Sample IDs: 1
    Analysis: **Odor, Perchlorate, T. Coliform, SOC,**
    TAT: **Gross alpha 5 day**
12. Were VOAs received? (Yes) / No
    a. Air bubbles in aqueous VOAs? Yes / (No)
    b. Does methanol cover soil completely? Yes / No / NA
13. Are the samples properly preserved? Yes / (No)
    a. If metals preserved upon receipt: Date: ____ Time: ____ By/Acid Lot#: ____
    b. If dissolved metals are requested, are they: Yes / No Field Filtered
    c. Low Level VOA vials frozen: Date: ____ Time: ____ Yes / No To Be Lab Filtered By: ____

Sample Receiving Notes:

One other glass from SOC kit received empty. One 250 sulfuric poly received empty- cannot run ammonia.

FRB for PFAS added as sample 2. VOA TB added as sample 3. Secondary contaminants starred on COC- no further explaination in comment section.

14. Was there a need to contact Project Manager? (Yes) / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? ____ Date: ____ Time: ____ By: ____

Resolution:

Perserve and narrate ammonia analysis, secondary contaminent provided

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	535052	Yes	N/A	Yes	100 mL Bacti	NP	
1	535053	Yes	N/A	Yes	Other Poly	NP	
1	535054	Yes	N/A	Yes	Other Poly	Trizma	
1	535055	Yes	N/A	Yes	Other Poly	Trizma	
1	535056	Yes	No	Yes	VOA Vial	HCl	
1	535057	Yes	No	Yes	VOA Vial	HCl	
1	535058	Yes	No	Yes	VOA Vial	HCl	
1	535059	Yes	N/A	Yes	250 mL Amber	NP	
1	535060	Yes	N/A	Yes	250 mL Poly	NaOH pH>12	
1	535061	Yes	N/A	Yes	250 mL Poly	HNO3	
1	535134	Yes	N/A	Yes	250 mL Poly	HNO3	
1	535135	Yes	N/A	Yes	250 mL Poly	HNO3	
1	535136	Yes	N/A	Yes	1L Poly	NP	
1	535137	Yes	N/A	Yes	Other Poly	HNO3	
1	535138	Yes	N/A	Yes	Other Poly	HNO3	
1	535139	Yes	N/A	Yes	Other Poly	HNO3	
1	535140	Yes	N/A	Yes	1L Amber	Other	
1	535141	Yes	N/A	Yes	1L Amber	Other	
1	535142	Yes	N/A	Yes	Other Glass	Other	
1	535143	Yes	No	Yes	VOA Vial	Na2S2O3	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Fuss & O'Neill, Inc. - TJM

ESS Project ID: 24D0127

Date Received: 4/3/2024

1	535144	Yes	No	Yes	VOA Vial	Na2S2O3
1	535145	Yes	No	Yes	VOA Vial	Na2S2O3
1	535146	Yes	No	Yes	VOA Vial	Na2S2O3
1	535147	Yes	No	Yes	VOA Vial	Other
1	535148	Yes	No	Yes	VOA Vial	Other
1	535149	Yes	No	Yes	VOA Vial	NP
1	535150	Yes	No	Yes	VOA Vial	NP
1	535151	Yes	No	Yes	VOA Vial	NP
2	535152	Yes	N/A	Yes	Other Poly	Trizma
3	535153	Yes	No	Yes	VOA Vial	Na2S2O3

2nd Review

Were all containers scanned into storage/lab? Initials TD

Are barcode labels on correct containers? Yes / No

Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA

Are all Hex Chrome stickers attached? Yes / No / NA

Are all QC stickers attached? Yes / No / NA

Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: [signature] Date & Time: 1743 4/3/24

Reviewed By: [signature] Date & Time: 4/3/24 1749

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 24, 2024

Mr. Shawn Morrell
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910

RE: Project: 24D0127
Pace Project No.: 30674936

Dear Mr. Morrell:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carla Cmar
carla.cmar@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Mary Ellen Dean, ESS Laboratory
Missy Pagliarini, ESS
ESS Reporting, ESS Laboratory

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 24D0127
Pace Project No.: 30674936

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 24D0127
Pace Project No.: 30674936

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30674936001	**24D0127-01**	Drinking Water	04/03/24 14:36	04/09/24 10:05

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 24D0127
Pace Project No.: 30674936

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30674936001	**24D0127-01**	SM 7500RnB-1996	REH1	1	PASI-PA
		EPA 900.0	KET	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		ASTM D5174-97	SLC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 24D0127
Pace Project No.: 30674936

Sample: 24D0127-01 **Lab ID: 30674936001** Collected: 04/03/24 14:36 Received: 04/09/24 10:05 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments:
- Received updated COC 4/9/24 for anlaysis.
- No dates/times on radon vials; time on bottles = 14:26.
- We received a radon sample today that was out of hold. Our system will flag this sample as "out of hold" However, there is no hold time for radon in water and it is not a regulated parameter. There is only one reference for a hold-time for radon in water and it has a "recommended" hold-time of 4 days.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radon	SM 7500RnB-1996	**11,197 ± 291 (126) C:NA T:NA**	pCi/L	04/11/24 00:30	10043-92-2	H3
		Pace Analytical Services - Greensburg				
Gross Alpha	EPA 900.0	**3.23 ± 1.53 (2.05) C:NA T:NA**	pCi/L	04/22/24 08:12	12587-46-1	
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.642 ± 0.379 (0.158) C:NA T:92%**	pCi/L	04/22/24 12:57	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.133 ± 0.351 (0.787) C:78% T:78%**	pCi/L	04/17/24 11:22	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Uranium	ASTM D5174-97	**4.67 ± 0.081 (0.323) C:NA T:NA**	ug/L	04/23/24 13:08	7440-61-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 24D0127
Pace Project No.: 30674936

QC Batch: 661205
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226, DW
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30674936001

METHOD BLANK: 3220429 Matrix: Drinking Water
Associated Lab Samples: 30674936001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0480 ± 0.249 (0.517) C:NA T:92%	pCi/L	04/22/24 12:57	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 24D0127
Pace Project No.: 30674936

QC Batch: 661206
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228, DW
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30674936001

METHOD BLANK: 3220430 Matrix: Drinking Water
Associated Lab Samples: 30674936001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.423 ± 0.313 (0.633) C:79% T:93%	pCi/L	04/17/24 11:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 24D0127
Pace Project No.: 30674936

QC Batch: 661921
QC Batch Method: EPA 900.0
Analysis Method: EPA 900.0
Analysis Description: 900.0 Gross Alpha/Beta
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30674936001

METHOD BLANK: 3223777 Matrix: Water
Associated Lab Samples: 30674936001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.270 ± 0.675 (1.63) C:NA T:NA	pCi/L	04/22/24 08:14	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 24D0127
Pace Project No.: 30674936

QC Batch: 661101
QC Batch Method: SM 7500RnB-1996
Analysis Method: SM 7500RnB-1996
Analysis Description: 7500Rn B Radon
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30674936001

METHOD BLANK: 3219708 Matrix: Water
Associated Lab Samples: 30674936001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	-2.9 ± 18.6 (32.8) C:NA T:NA	pCi/L	04/10/24 23:56	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 24D0127
Pace Project No.: 30674936

QC Batch: 661547
QC Batch Method: ASTM D5174-97
Analysis Method: ASTM D5174-97
Analysis Description: D5174.97 Total Uranium KPA, DW
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30674936001

METHOD BLANK: 3222292
Matrix: Drinking Water
Associated Lab Samples: 30674936001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	0.022 ± 0.002 (0.323) C:NA T:NA	ug/L	04/23/24 13:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 24D0127
Pace Project No.: 30674936

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.

updated COC received via email 4/9/24 – PS

SUBCONTRACT ORDER
24D0127

Print Date/Time: 4/8/2024 11:10:22AM

SENDING LABORATORY:

ESS Laboratory
185 Frances Avenue
Cranston, RI 02910
Phone: (401) 461-7181

RECEIVING LABORATORY:

Pace Analytical - Greensburg
1638 Roseytown Road
Greensburg, PA 15601
Phone: (724) 850-5600

☐ **These samples require MCL exceedance reporting**

PROJECT NOTES

Project Name: 24D0127 **Project Location:** MA

Project PO Number: 20091032.A11

Send Report To: smorrell@thielsch.com; mdean@thielsch.com; ESSProjectManagement@thielsch.com

Send Invoice To: ESSAdministration@thielsch.com

Sample ID: 24D0127-01 **Matrix:** Drinking Water **Sampled:** 04/03/24 14:36 001

DEP Location Name: N/A **Sample Type:** N/A

DEP Location ID#: N/A **Sampled By:** N/A

Analysis		Due Date	Hold Time Expires
Gross Alpha	Please include Rad 226/228, Uranium, Gross Alpha, and Radon	Standard	9/30/2024

Analysis Comments: N/A

4/9/24 MED

WO# : 30674936

30674936

Received by Pace Greensburg
Therm ID 16 Corr Factor +/- -0.2
Receipt Temp 4.9
Corrected Temp 4.7
Correct Preservation (Y) N

Released By	Date	Received By	Date
		4/9/24	1005
Released By	Date	Received By	Date

SUBCONTRACT ORDER
24D0127

Print Date/Time: 4/8/2024 9:35:10AM

SENDING LABORATORY:

ESS Laboratory
185 Frances Avenue
Cranston, RI 02910
Phone: (401) 461-7181

RECEIVING LABORATORY:

Pace Analytical - Greensburg
1638 Roseytown Road
Greensburg, PA 15601
Phone: (724) 850-5600

☐ **These samples require MCL exceedance reporting**

PROJECT NOTES

Project Name: 24D0127 **Project Location:** MA

Project PO Number: 20091032.A11

Send Report To: smorrell@thielsch.com; mdean@thielsch.com; ESSProjectManagement@thielsch.com

Send Invoice To: ESSAdministration@thielsch.com

007

Sample ID: 24D0127-01 **Matrix:** Drinking Water **Sampled:** 04/03/24 14:36

DEP Location Name: N/A **Sample Type:** N/A

DEP Location ID#: N/A **Sampled By:** N/A

Analysis	Due Date	Hold Time Expires
Gross Alpha	Standard	9/30/2024

Analysis Comments: N/A

Received by Pace Greensburg
Therm ID 16 Corr Factor +/- 0.2
Receipt Temp 1.7
Corrected Temp 1.7
Correct Preservation Y / N

WO#: 30674936

PM: CMC **Due Date: 04/30/24**
CLIENT: ESS

Released By	Date	Received By	Date
	4/8/24 10:27		4/9/24 1005
Released By	Date	Received By	Date

WO# : 30674936

PM: CMC Due Date: 04/30/24
CLIENT: ESS

Client Name: ESS

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other
Tracking Number: 1Z 037 497 01 7712 1865

Initial / Date
Examined By: PS 4/9/24
Labeled By: PS 4/9/24
Temped By: JS 4/9/24

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals Intact: ☐ Yes ☐ No
Thermometer Used: 16 Type of Ice: (Wet) Blue None
Cooler Temperature: Observed Temp 1.9 °C Correction Factor: -0.2 °C Final Temp: 1.7 °C
Temp should be above freezing to 6°C

pH paper Lot# 1002931 | D.P.D. Residual Chlorine Lot #

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1. Received updated coc via PM. 4/9/24
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:		✓		5.
-Includes date/time/ID				- No dates/times on Radon vials
Matrix:	DW			- time on bottles = 14:26
Samples Arrived within Hold Time: PS 4/9/24	X	✓		6. Radon out of Hold.
Short Hold Time Analysis (<72hr remaining):	✓			7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dechlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				pH<2 / Radon
All containers meet method preservation requirements:	✓			Initial when completed PS Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)		✓		19. Headspace in vial 113 and 213.
Trip Blank Present:				Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed JS Date: 4/9/24 Survey Meter SN: 25614380

Comments: * Radon Vials received - Analysis for Radon not on COC.

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client _____

Site 24D0127

Page 1 of 1

Profile Number 4174

Notes * Log Rad 226/228, Uranium, Gross Alpha, Radon

		Amber Glass					Plastic								Vials					Other									
Sample Line Item	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	GN	BG1U		
001	DW						3											3											

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG[illegible]			40mL clear VOA vial
AG[illegible]			40mL clear VOA vial Na Thiosulfate
GJN			40mL clear VOA vial HCl
AG[illegible]			4oz amber wide jar
AG[illegible]			4oz wide jar unpreserved
AG1[illegible]	[illegible]	[illegible]	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

WO#: 30674936

PM: CMC **Due Date: 04/30/24**

CLIENT: ESS

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag

WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Shawn Morrell
ESS Laboratory
185 Frances Ave
Cranston, Rhode Island 02910

Generated 4/16/2024 8:38:19 AM

JOB DESCRIPTION

24D0127

JOB NUMBER

810-99893-1

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend IN 46617

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization

Generated
4/16/2024 8:38:19 AM

Authorized for release by
Amanda Scott, Project Manager
Amanda.Scott@et.eurofinsus.com
(574)233-4777

Table of Contents

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 810-99893-1 — Eurofins Eaton Analytical South Bend

Job Narrative
810-99893-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/9/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Receipt Exceptions
The following sample was improperly preserved in the field: 24D0127-01 (810-99893-1). The preservative used is not compatible with the analytes requested. This does not meet regulatory requirements. Method 525.2. Both bottle of this sample have neutral pH. pH for this method should be <2.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

LCMS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Client Sample ID: 24D0127-01 — Lab Sample ID: 810-99893-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	0.054		0.050	0.012	ug/L	1		331.0	Total/NA

Client Sample ID: LTB 5-15-23 — Lab Sample ID: 810-99893-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 24D0127-01
Date Collected: 04/03/24 14:36
Date Received: 04/09/24 09:00

Lab Sample ID: 810-99893-1
Matrix: Drinking Water

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	ND		0.098	0.0098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Aldrin	ND		0.098	0.0080	ug/L		04/11/24 07:13	04/13/24 11:12	1
Atrazine	ND		0.098	0.0098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Benzo[a]pyrene	ND		0.020	0.012	ug/L		04/11/24 07:13	04/13/24 11:12	1
Butachlor	ND		0.098	0.020	ug/L		04/11/24 07:13	04/13/24 11:12	1
Di(2-ethylhexyl)adipate	ND		0.59	0.020	ug/L		04/11/24 07:13	04/13/24 11:12	1
Di (2-ethylhexyl)phthalate	ND		0.59	0.098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Dieldrin	ND		0.039	0.020	ug/L		04/11/24 07:13	04/13/24 11:12	1
Endrin	ND		0.0098	0.0097	ug/L		04/11/24 07:13	04/13/24 11:12	1
gamma-BHC (Lindane)	ND		0.020	0.0083	ug/L		04/11/24 07:13	04/13/24 11:12	1
Heptachlor	ND		0.0098	0.0043	ug/L		04/11/24 07:13	04/13/24 11:12	1
Heptachlor epoxide	ND		0.0098	0.0039	ug/L		04/11/24 07:13	04/13/24 11:12	1
Hexachlorobenzene	ND		0.098	0.0098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Hexachlorocyclopentadiene	ND		0.098	0.0098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Methoxychlor	ND		0.098	0.0098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Metolachlor	ND		0.098	0.0098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Metribuzin	ND		0.098	0.0098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Propachlor	ND		0.098	0.0098	ug/L		04/11/24 07:13	04/13/24 11:12	1
Simazine	ND		0.069	0.030	ug/L		04/11/24 07:13	04/13/24 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene (Surr)	*92*		*70 - 130*	*04/11/24 07:13*	*04/13/24 11:12*	*1*
Perylene-d12 (Surr)	*90*		*70 - 130*	*04/11/24 07:13*	*04/13/24 11:12*	*1*
Triphenylphosphate (Surr)	*91*		*70 - 130*	*04/11/24 07:13*	*04/13/24 11:12*	*1*

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0051	ug/L		04/10/24 12:37	04/11/24 00:14	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0062	ug/L		04/10/24 12:37	04/11/24 00:14	1

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.080	0.079	ug/L		04/10/24 09:28	04/10/24 18:03	1
PCB-1221	ND		0.10	0.050	ug/L		04/10/24 09:28	04/10/24 18:03	1
PCB-1232	ND		0.10	0.070	ug/L		04/10/24 09:28	04/10/24 18:03	1
PCB-1242	ND		0.10	0.050	ug/L		04/10/24 09:28	04/10/24 18:03	1
PCB-1248	ND		0.10	0.080	ug/L		04/10/24 09:28	04/10/24 18:03	1
PCB-1254	ND		0.10	0.070	ug/L		04/10/24 09:28	04/10/24 18:03	1
PCB-1260	ND		0.10	0.040	ug/L		04/10/24 09:28	04/10/24 18:03	1
Chlordane (technical)	ND		0.10	0.040	ug/L		04/10/24 09:28	04/10/24 18:03	1
Toxaphene	ND		0.50	0.060	ug/L		04/10/24 09:28	04/10/24 18:03	1

Method: EPA 515.3 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	ND		0.10	0.030	ug/L		04/11/24 11:33	04/13/24 04:55	1
Dalapon	ND		1.0	0.40	ug/L		04/11/24 11:33	04/13/24 04:55	1
Dicamba	ND		0.10	0.080	ug/L		04/11/24 11:33	04/13/24 04:55	1
Dinoseb	ND		0.10	0.090	ug/L		04/11/24 11:33	04/13/24 04:55	1
Pentachlorophenol	ND		0.040	0.010	ug/L		04/11/24 11:33	04/13/24 04:55	1
Picloram	ND		0.10	0.030	ug/L		04/11/24 11:33	04/13/24 04:55	1

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Client Sample ID: 24D0127-01

Lab Sample ID: 810-99893-1

Date Collected: 04/03/24 14:36

Matrix: Drinking Water

Date Received: 04/09/24 09:00

Method: EPA 515.3 - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		0.10	0.080	ug/L		04/11/24 11:33	04/13/24 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*105*		*70 - 130*	*04/11/24 11:33*	*04/13/24 04:55*	*1*

Method: EPA 531.2 - Carbamate Pesticides (HPLC) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Naphthol	ND		1.0	0.30	ug/L			04/12/24 00:20	1
3-Hydroxycarbofuran	ND		0.50	0.20	ug/L			04/12/24 00:20	1
Aldicarb	ND		0.50	0.20	ug/L			04/12/24 00:20	1
Aldicarb sulfone	ND		0.70	0.20	ug/L			04/12/24 00:20	1
Aldicarb sulfoxide	ND		0.50	0.20	ug/L			04/12/24 00:20	1
Baygon (Propoxur)	ND		0.50	0.20	ug/L			04/12/24 00:20	1
Carbaryl	ND		0.50	0.20	ug/L			04/12/24 00:20	1
Carbofuran	ND		0.90	0.30	ug/L			04/12/24 00:20	1
Methiocarb	ND		1.0	0.40	ug/L			04/12/24 00:20	1
Methomyl	ND		0.50	0.30	ug/L			04/12/24 00:20	1
Oxamyl	ND		1.0	0.30	ug/L			04/12/24 00:20	1

Method: EPA 331.0 - Perchlorate (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.054**		0.050	0.012	ug/L			04/11/24 20:52	1

Client Sample ID: LTB 5-15-23

Lab Sample ID: 810-99893-2

Date Collected: 04/03/24 00:00

Matrix: Drinking Water

Date Received: 04/09/24 09:00

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0052	ug/L		04/10/24 12:37	04/11/24 08:36	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0062	ug/L		04/10/24 12:37	04/11/24 08:36	1

Surrogate Summary

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Matrix: Drinking Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		2NMX	PRY	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
810-99893-1	24D0127-01	92	90	91
LCS 810-95147/3-A	Lab Control Sample	90	98	91
LLCS 810-95147/2-A	Lab Control Sample	88	95	94
MB 810-95147/1-A	Method Blank	86	95	93

Surrogate Legend

2NMX = 2-Nitro-m-xylene (Surr)
PRY = Perylene-d12 (Surr)
TPP = Triphenylphosphate (Surr)

Method: 515.3 - Herbicides (GC)

Matrix: Drinking Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA2
Lab Sample ID	Client Sample ID	(70-130)
810-99893-1	24D0127-01	105
LLCS 810-95193/2-B	Lab Control Sample	103
MB 810-95193/1-B	Method Blank	107

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 810-95147/1-A
Matrix: Drinking Water
Analysis Batch: 95357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nlac. lor	u D		0g099	0g0099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Nlzrin	u D		0g099	0g0081	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
NtraBine	u D		0g099	0g0099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
[enBo]ap5yrene	u D		0g020	0g012	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
[Atac. lor	u D		0g099	0g020	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Dix2-et. yl. e) ylnazi5ate	u D		0g[0	0g020	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Di x2-et. yl. e) ylr5. t. alate	u D		0g[0	0g099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Dielzrin	u D		0g040	0g020	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Enzrin	u D		0g0099	0g0098	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
haH Ha-[MC xLinzanem	u D		0g020	0g0084	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Me5tac. lor	u D		0g0099	0g0044	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Me5tac. lor e5o) ize	u D		0g0099	0g0040	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Me) ac. lorobenBene	u D		0g099	0g0099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Me) ac. lorocyclo5entaziene	u D		0g099	0g0099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
6 et. o) yc. lor	u D		0g099	0g0099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
6 etolac. lor	u D		0g099	0g0099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
6 etribABin	u D		0g099	0g0099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
Pro5ac. lor	u D		0g099	0g0099	Ah/L		04/11/24 07:13	04/13/24 09:d3	1
SiH aBine	u D		0g070	0g030	Ah/L		04/11/24 07:13	04/13/24 09:d3	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene (Surr)	*86*		*70 - 130*	*04/11/24 07:13*	*04/13/24 09:53*	*1*
Perylene-d12 (Surr)	*95*		*70 - 130*	*04/11/24 07:13*	*04/13/24 09:53*	*1*
Triphenylphosphate (Surr)	*93*		*70 - 130*	*04/11/24 07:13*	*04/13/24 09:53*	*1*

Lab Sample ID: LCS 810-95147/3-A
Matrix: Drinking Water
Analysis Batch: 95357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nlzrin	2g00	2gl8		Ah/L		109	70 - 130
[Atac. lor	2g00	2g31		Ah/L		11(	70 - 130
Dix2-et. yl. e) ylnazi5ate	2g00	2gl3		Ah/L		107	70 - 130
Di x2-et. yl. e) ylr5. t. alate	2g00	1g94		Ah/L		97	70 - 130
Dielzrin	2g00	2gl8		Ah/L		129	70 - 130
Enzrin	2g00	2g23		Ah/L		112	70 - 130
haH Ha-[MC xLinzanem	2g00	2gl9		Ah/L		110	70 - 130
Me5tac. lor	2g00	2g31		Ah/L		11(	70 - 130
Me5tac. lor e5o) ize	2g00	1g9(		Ah/L		98	70 - 130
Me) ac. lorobenBene	2g00	1g9d		Ah/L		98	70 - 130
Me) ac. lorocyclo5entaziene	2g00	1g80		Ah/L		90	70 - 130
6 et. o) yc. lor	2g00	1g9(		Ah/L		98	70 - 130
6 etolac. lor	2g00	2g04		Ah/L		102	70 - 130
6 etribABin	2g00	2g31		Ah/L		11(	70 - 130
Pro5ac. lor	2g00	2g0(		Ah/L		103	70 - 130
SiH aBine	2g00	2g01		Ah/L		101	70 - 130

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 810-95147/3-A
Matrix: Drinking Water
Analysis Batch: 95357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene (Surr)	90		70 - 130
Perylene-d12 (Surr)	98		70 - 130
Triphenylphosphate (Surr)	91		70 - 130

Lab Sample ID: LLCS 810-95147/2-A
Matrix: Drinking Water
Analysis Batch: 95357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95147

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nlzrin	0g0702	0g0(40	J	Ah/L		91	d0 - 1d0
[Atac. lor	0g100	0g104		Ah/L		104	d0 - 1d0
Dix2-et. yl. e) ylnazi5ate	0g(01	0g704		Ah/L		117	d0 - 1d0
Di x2-et. yl. e) ylr5. t. alate	0g(01	0g((7		Ah/L		111	d0 - 1d0
Dielzrin	0g0200	0g02(9	J	Ah/L		134	d0 - 1d0
Enzrin	0g0100	0g0104		Ah/L		104	d0 - 1d0
haH Ha-[MC xLinzanem	0g0200	0g0188	J	Ah/L		94	d0 - 1d0
Me5tac. lor	0g0100	0g0114		Ah/L		114	d0 - 1d0
Me5tac. lor e5o) ize	0g0100	0g010(		Ah/L		10(	d0 - 1d0
Me) ac. lorobenBene	0g100	0g0884	J	Ah/L		88	d0 - 1d0
Me) ac. lorocyclo5entaziene	0g100	0g0(47	J	Ah/L		(d	d0 - 1d0
6 et. o) yc. lor	0g100	0g0818	J	Ah/L		82	d0 - 1d0
6 etolac. lor	0g100	0g0934	J	Ah/L		93	d0 - 1d0
6 etribABin	0g100	0g101		Ah/L		101	d0 - 1d0
Pro5ac. lor	0g100	0g0828	J	Ah/L		83	d0 - 1d0
SiH aBine	0g0702	0g0409	J	Ah/L		d8	d0 - 1d0

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
2-Nitro-m-xylene (Surr)	88		70 - 130
Perylene-d12 (Surr)	95		70 - 130
Triphenylphosphate (Surr)	94		70 - 130

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MBL 810-95055/1-A
Matrix: Drinking Water
Analysis Batch: 95118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95055

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1\2-DibroH oet. ane xED[m	u D		0g010	0g00d0	Ah/L		04/10/24 12:37	04/10/24 23:d2	1
1\2-DibroH o-3-C. loro5ro5ane	u D		0g010	0g00(0	Ah/L		04/10/24 12:37	04/10/24 23:d2	1

Lab Sample ID: LCS 810-95055/2-A
Matrix: Drinking Water
Analysis Batch: 95118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1\2-DibroH oet. ane xED[m	0g2d0	0g233		Ah/L		93	70 - 130
1\2-DibroH o-3-C. loro5ro5ane	0g2d0	0g228		Ah/L		91	70 - 130

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 810-95055/3-A
Matrix: Drinking Water
Analysis Batch: 95118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1\2-DibroHoet. ane xED[m	0g2d0	0g248		Ah/L		99	70 - 130
1\2-DibroHo-3-C. loro5ro5ane	0g2d0	0g244		Ah/L		97	70 - 130

Lab Sample ID: LLCS 810-95055/4-A
Matrix: Drinking Water
Analysis Batch: 95118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95055

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1\2-DibroHoet. ane xED[m	0g0100	0g0114		Ah/L		114	d0 - 1d0
1\2-DibroHo-3-C. loro5ro5ane	0g0100	0g009d0	J	Ah/L		9d	d0 - 1d0

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Lab Sample ID: MB 810-95014/1-A
Matrix: Drinking Water
Analysis Batch: 95041

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PC[-101(	u D		0g080	0g079	Ah/L		04/10/24 09:28	04/10/24 14:09	1
PC[-1221	u D		0g10	0g0d0	Ah/L		04/10/24 09:28	04/10/24 14:09	1
PC[-1232	u D		0g10	0g070	Ah/L		04/10/24 09:28	04/10/24 14:09	1
PC[-1242	u D		0g10	0g0d0	Ah/L		04/10/24 09:28	04/10/24 14:09	1
PC[-1248	u D		0g10	0g080	Ah/L		04/10/24 09:28	04/10/24 14:09	1
PC[-12d4	u D		0g10	0g070	Ah/L		04/10/24 09:28	04/10/24 14:09	1
PC[-12(0	u D		0g10	0g040	Ah/L		04/10/24 09:28	04/10/24 14:09	1
C. lorzane xtec. nicalm	u D		0g10	0g040	Ah/L		04/10/24 09:28	04/10/24 14:09	1
so) a5. ene	u D		0gd0	0g0(0	Ah/L		04/10/24 09:28	04/10/24 14:09	1

Lab Sample ID: LLCS 810-95014/2-A
Matrix: Drinking Water
Analysis Batch: 95041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95014

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
C. lorzane xtec. nicalm	0gl00	0g09(7	J	Ah/L		97	d0 - 1d0

Lab Sample ID: LLCS 810-95014/3-A
Matrix: Drinking Water
Analysis Batch: 95041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95014

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
so) a5. ene	0gd00	0g42(	J	Ah/L		8d	d0 - 1d0

Lab Sample ID: 810-99893-1 DU
Matrix: Drinking Water
Analysis Batch: 95041

Client Sample ID: 24D0127-01
Prep Type: Total/NA
Prep Batch: 95014

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PC[-101(	u D		u D		Ah/L		u C	30
PC[-1221	u D		u D		Ah/L		u C	30
PC[-1232	u D		u D		Ah/L		u C	30

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: 810-99893-1 DU
Matrix: Drinking Water
Analysis Batch: 95041

Client Sample ID: 24D0127-01
Prep Type: Total/NA
Prep Batch: 95014

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
PC[-1242	u D			u D		Ah/L				u C	30
PC[-1248	u D			u D		Ah/L				u C	30
PC[-12d4	u D			u D		Ah/L				u C	30
PC[-12(0	u D			u D		Ah/L				u C	30
C. lorzane xtec. nicalm	u D			u D		Ah/L				u C	30
so) a5. ene	u D			u D		Ah/L				u C	30

Method: 515.3 - Herbicides (GC)

Lab Sample ID: MB 810-95193/1-B
Matrix: Drinking Water
Analysis Batch: 95344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2v4vd-sP xSilf e) m	u D		0g10	0g030	Ah/L		04/11/24 11:33	04/12/24 1(:08	1
Dala5on	u D		1g0	0g40	Ah/L		04/11/24 11:33	04/12/24 1(:08	1
DicaHba	u D		0g10	0g080	Ah/L		04/11/24 11:33	04/12/24 1(:08	1
DinoTeb	u D		0g10	0g090	Ah/L		04/11/24 11:33	04/12/24 1(:08	1
Pentac. loro5. enol	u D		0g040	0g010	Ah/L		04/11/24 11:33	04/12/24 1(:08	1
PicloraH	u D		0g10	0g030	Ah/L		04/11/24 11:33	04/12/24 1(:08	1
2v4-D	u D		0g10	0g080	Ah/L		04/11/24 11:33	04/12/24 1(:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*107*		*70 - 130*	*04/11/24 11:33*	*04/12/24 16:08*	*1*

Lab Sample ID: LLCS 810-95193/2-B
Matrix: Drinking Water
Analysis Batch: 95344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95193

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
2v4vd-sP xSilf e) m			0g100	0g108		Ah/L		108	48 - 148		
DinoTeb			0g200	0g27(		Ah/L		138	39 - 141		
Pentac. loro5. enol			0g0400	0g0490		Ah/L		122	30 - 171		
PicloraH			0g100	0g0809	J	Ah/L		81	24 - 1d0		
2v4-D			0g200	0g179		Ah/L		90	24 - 138		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*103*		*70 - 130*

Method: 531.2 - Carbamate Pesticides (HPLC)

Lab Sample ID: MBL 810-95188/1-A
Matrix: Drinking Water
Analysis Batch: 95270

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-u a5. t. ol	u D		1g0	0g30	Ah/L			04/11/24 19:09	1
3-Myzro) ycarbo,Aran	u D		0gd0	0g20	Ah/L			04/11/24 19:09	1
Nlzicarb	u D		0gd0	0g20	Ah/L			04/11/24 19:09	1

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Method: 531.2 - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: MBL 810-95188/1-A
Matrix: Drinking Water
Analysis Batch: 95270

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nlzicarb TAl,one	u D		0g70	0g20	Ah/L			04/11/24 19:09	1
Nlzicarb TAl,o) ize	u D		0gd0	0g20	Ah/L			04/11/24 19:09	1
[ayhon xPro5o) Arm	u D		0gd0	0g20	Ah/L			04/11/24 19:09	1
Carbaryl	u D		0gd0	0g20	Ah/L			04/11/24 19:09	1
Carbo,Aran	u D		0g90	0g30	Ah/L			04/11/24 19:09	1
6 et. iocarb	u D		1g0	0g40	Ah/L			04/11/24 19:09	1
6 et. oHyl	u D		0gd0	0g30	Ah/L			04/11/24 19:09	1
O) aHyl	u D		1g0	0g30	Ah/L			04/11/24 19:09	1

Lab Sample ID: 810-99893-1 MS
Matrix: Drinking Water
Analysis Batch: 95270

Client Sample ID: 24D0127-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-u a5. t. ol	u D		2g00	1g89		Ah/L		94	70 - 130
3-Myzro) ycarbo,Aran	u D		2g00	1g82		Ah/L		91	70 - 130
Nlzicarb	u D		2g00	1g84		Ah/L		92	70 - 130
Nlzicarb TAl,one	u D		2g00	1g71		Ah/L		8(	70 - 130
Nlzicarb TAl,o) ize	u D		2g00	1g80		Ah/L		90	70 - 130
[ayhon xPro5o) Arm	u D		2g00	1g72		Ah/L		8(	70 - 130
Carbaryl	u D		2g00	1g83		Ah/L		91	70 - 130
Carbo,Aran	u D		2g00	1g91		Ah/L		9d	70 - 130
6 et. iocarb	u D		2g00	1g79		Ah/L		90	70 - 130
6 et. oHyl	u D		2g00	1g74		Ah/L		87	70 - 130
O) aHyl	u D		2g00	1g80		Ah/L		90	70 - 130

Lab Sample ID: 810-99893-1 MSD
Matrix: Drinking Water
Analysis Batch: 95270

Client Sample ID: 24D0127-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-u a5. t. ol	u D		2g00	1g99		Ah/L		99	70 - 130	d	30
3-Myzro) ycarbo,Aran	u D		2g00	1g81		Ah/L		90	70 - 130	1	30
Nlzicarb	u D		2g00	1g8d		Ah/L		92	70 - 130	1	30
Nlzicarb TAl,one	u D		2g00	1g[9		Ah/L		84	70 - 130	1	30
Nlzicarb TAl,o) ize	u D		2g00	1g82		Ah/L		91	70 - 130	1	30
[ayhon xPro5o) Arm	u D		2g00	1g70		Ah/L		8d	70 - 130	1	30
Carbaryl	u D		2g00	1g7(		Ah/L		88	70 - 130	4	30
Carbo,Aran	u D		2g00	1g87		Ah/L		93	70 - 130	2	30
6 et. iocarb	u D		2g00	1g71		Ah/L		8(	70 - 130	d	30
6 et. oHyl	u D		2g00	1g82		Ah/L		91	70 - 130	4	30
O) aHyl	u D		2g00	1g88		Ah/L		94	70 - 130	4	30

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Method: 331.0 - Perchlorate (LC/MS/MS)

Lab Sample ID: MBL 810-95223/12
Matrix: Drinking Water
Analysis Batch: 95223

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perc. lorate	u D		0g0d0	0g012	Ah/L			04/11/24 20:21	1

Lab Sample ID: LLCS 810-95223/13
Matrix: Drinking Water
Analysis Batch: 95223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perc. lorate			0g0d00	0g0d32		Ah/L		10(	d0 - 1d0		

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4/16/2024

GC/MS Semi VOA

Prep Batch: 95147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	525.2	
MB 810-95147/1-A	Method Blank	Total/NA	Drinking Water	525.2	
LCS 810-95147/3-A	Lab Control Sample	Total/NA	Drinking Water	525.2	
LLCS 810-95147/2-A	Lab Control Sample	Total/NA	Drinking Water	525.2	

Analysis Batch: 95357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	525.2	95147
MB 810-95147/1-A	Method Blank	Total/NA	Drinking Water	525.2	95147
LCS 810-95147/3-A	Lab Control Sample	Total/NA	Drinking Water	525.2	95147
LLCS 810-95147/2-A	Lab Control Sample	Total/NA	Drinking Water	525.2	95147

GC Semi VOA

Prep Batch: 95014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	505	
MB 810-95014/1-A	Method Blank	Total/NA	Drinking Water	505	
LLCS 810-95014/2-A	Lab Control Sample	Total/NA	Drinking Water	505	
LLCS 810-95014/3-A	Lab Control Sample	Total/NA	Drinking Water	505	
810-99893-1 DU	24D0127-01	Total/NA	Drinking Water	505	

Analysis Batch: 95041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	505	95014
MB 810-95014/1-A	Method Blank	Total/NA	Drinking Water	505	95014
LLCS 810-95014/2-A	Lab Control Sample	Total/NA	Drinking Water	505	95014
LLCS 810-95014/3-A	Lab Control Sample	Total/NA	Drinking Water	505	95014
810-99893-1 DU	24D0127-01	Total/NA	Drinking Water	505	95014

Prep Batch: 95055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	504.1	
810-99893-2	LTB 5-15-23	Total/NA	Drinking Water	504.1	
MBL 810-95055/1-A	Method Blank	Total/NA	Drinking Water	504.1	
LCS 810-95055/2-A	Lab Control Sample	Total/NA	Drinking Water	504.1	
LCS 810-95055/3-A	Lab Control Sample	Total/NA	Drinking Water	504.1	
LLCS 810-95055/4-A	Lab Control Sample	Total/NA	Drinking Water	504.1	

Analysis Batch: 95118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	504.1	95055
810-99893-2	LTB 5-15-23	Total/NA	Drinking Water	504.1	95055
MBL 810-95055/1-A	Method Blank	Total/NA	Drinking Water	504.1	95055
LCS 810-95055/2-A	Lab Control Sample	Total/NA	Drinking Water	504.1	95055
LCS 810-95055/3-A	Lab Control Sample	Total/NA	Drinking Water	504.1	95055
LLCS 810-95055/4-A	Lab Control Sample	Total/NA	Drinking Water	504.1	95055

Prep Batch: 95193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	515.3	

GC Semi VOA (Continued)

Prep Batch: 95193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 810-95193/1-B	Method Blank	Total/NA	Drinking Water	515.3	
LLCS 810-95193/2-B	Lab Control Sample	Total/NA	Drinking Water	515.3	

Cleanup Batch: 95265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	Aliquot	95193
MB 810-95193/1-B	Method Blank	Total/NA	Drinking Water	Aliquot	95193
LLCS 810-95193/2-B	Lab Control Sample	Total/NA	Drinking Water	Aliquot	95193

Analysis Batch: 95344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	515.3	95265
MB 810-95193/1-B	Method Blank	Total/NA	Drinking Water	515.3	95265
LLCS 810-95193/2-B	Lab Control Sample	Total/NA	Drinking Water	515.3	95265

HPLC/IC

Filtration Batch: 95188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Dissolved	Drinking Water	Filtration	
MBL 810-95188/1-A	Method Blank	Dissolved	Drinking Water	Filtration	
810-99893-1 MS	24D0127-01	Dissolved	Drinking Water	Filtration	
810-99893-1 MSD	24D0127-01	Dissolved	Drinking Water	Filtration	

Analysis Batch: 95270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Dissolved	Drinking Water	531.2	95188
MBL 810-95188/1-A	Method Blank	Dissolved	Drinking Water	531.2	95188
810-99893-1 MS	24D0127-01	Dissolved	Drinking Water	531.2	95188
810-99893-1 MSD	24D0127-01	Dissolved	Drinking Water	531.2	95188

LCMS

Analysis Batch: 95223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-99893-1	24D0127-01	Total/NA	Drinking Water	331.0	
MBL 810-95223/12	Method Blank	Total/NA	Drinking Water	331.0	
LLCS 810-95223/13	Lab Control Sample	Total/NA	Drinking Water	331.0	

Lab Chronicle

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Client Sample ID: 24D0127-01

Lab Sample ID: 810-99893-1

Date Collected: 04/03/24 14:36

Matrix: Drinking Water

Date Received: 04/09/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			95147	KM	EA SB	04/11/24 07:13
Total/NA	Analysis	525.2		1	95357	CG	EA SB	04/13/24 11:12
Total/NA	Prep	504.1			95055	KB	EA SB	04/10/24 12:37 - 04/10/24 18:30 [1]
Total/NA	Analysis	504.1		1	95118	RS	EA SB	04/11/24 00:14
Total/NA	Prep	505			95014	AM	EA SB	04/10/24 09:28 - 04/10/24 11:20 [1]
Total/NA	Analysis	505		1	95041	CM	EA SB	04/10/24 18:03
Total/NA	Prep	515.3			95193	ER	EA SB	04/11/24 11:33
Total/NA	Cleanup	Aliquot			95265	ER	EA SB	04/11/24 16:32
Total/NA	Analysis	515.3		1	95344	SS	EA SB	04/13/24 04:55
Dissolved	Filtration	Filtration			95188	KB	EA SB	04/11/24 11:06
Dissolved	Analysis	531.2		1	95270	RS	EA SB	04/12/24 00:20
Total/NA	Analysis	331.0		1	95223	CM	EA SB	04/11/24 20:52

Client Sample ID: LTB 5-15-23

Lab Sample ID: 810-99893-2

Date Collected: 04/03/24 00:00

Matrix: Drinking Water

Date Received: 04/09/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	504.1			95055	KB	EA SB	04/10/24 12:37 - 04/10/24 18:30 [1]
Total/NA	Analysis	504.1		1	95118	RS	EA SB	04/11/24 08:36

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-IN035	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
505	505	Drinking Water	PCB-1016
505	505	Drinking Water	PCB-1221
505	505	Drinking Water	PCB-1232
505	505	Drinking Water	PCB-1242
505	505	Drinking Water	PCB-1248
505	505	Drinking Water	PCB-1254
505	505	Drinking Water	PCB-1260
515.3	515.3	Drinking Water	Dicamba
525.2	525.2	Drinking Water	Aldrin
525.2	525.2	Drinking Water	Butachlor
525.2	525.2	Drinking Water	Dieldrin
525.2	525.2	Drinking Water	Metolachlor
525.2	525.2	Drinking Water	Metribuzin
525.2	525.2	Drinking Water	Propachlor
531.2		Drinking Water	1-Naphthol
531.2		Drinking Water	3-Hydroxycarbofuran
531.2		Drinking Water	Baygon (Propoxur)
531.2		Drinking Water	Carbaryl
531.2		Drinking Water	Methiocarb
531.2		Drinking Water	Methomyl

Method Summary

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA SB
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW2	EA SB
505	Organochlorine Pesticides/PCBs (GC)	EPA	EA SB
515.3	Herbicides (GC)	EPA	EA SB
531.2	Carbamate Pesticides (HPLC)	EPA	EA SB
331.0	Perchlorate (LC/MS/MS)	EPA	EA SB
504.1	Microextraction	EPA-DW	EA SB
505	Extraction, Organochlorine Pesticides/PCBs	EPA	EA SB
515.3	Extraction of Chlorinated Acids	EPA-DW	EA SB
525.2	Extraction of Semivolatile Compounds	EPA	EA SB
Aliquot	Preparation, Extract aliquot	None	EA SB
Filtration	Sample Filtration	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency

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

EPA-DW2 = "Methods For The Determination of Organic Compounds in Drinking Water - Supplement III ",, EPA/600/R-95-131, August 1995

None = None

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: ESS Laboratory
Project/Site: 24D0127

Job ID: 810-99893-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-99893-1	24D0127-01	Drinking Water	04/03/24 14:36	04/09/24 09:00
810-99893-2	LTB 5-15-23	Drinking Water	04/03/24 00:00	04/09/24 09:00

SUBCONTRACT ORDER
24D0127

Print Date/Time: 4/8/2024 9:36:15AM

810-99893 Chain of Custody

SENDING LABORATORY:
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910
Phone: (401) 461-7181

RECEIVING LABORAT
Eurofins Eaton Analytical
110 South Hill Street
South Bend, IN 46617
Phone: (574) 233-4777

☐ **These samples require MCL exceedance reporting**

PROJECT NOTES

Project Name: 24D0127 **Project Location:** MA

Project PO Number: 20091032.A11

Send Report To: smorrell@thielsch.com; mdean@thielsch.com; ESSProjectManagement@thielsch.com

Send Invoice To: ESSAdministration@thielsch.com

Sample ID: 24D0127-01 **Matrix:** Drinking Water **Sampled:** 04/03/24 14:36

DEP Location Name: N/A **Sample Type:** N/A

DEP Location ID#: N/A **Sampled By:** N/A

Analysis	Due Date	Hold Time Expires
Perchlorate	Standard	5/1/2024

Analysis Comments: N/A

Analysis	Due Date	Hold Time Expires
SOC	Standard	4/3/2025

Analysis Comments: N/A

S31
SOS
SO4
S15(1)
S23

LTB 5-15-23
SO4

Initial Temp: 1.0
Corrected Temp: 0.2
IR Gun #: 18
WE

Released By	Date	Received By	Date
[signature]	4/8/24 1024	[signature]	4-9-24 0900
Released By	Date	Received By	Date

Page 1 of 1

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 810-99893-1

Login Number: 99893

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: DePriest, Kellie

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

CERTIFICATE OF ANALYSIS

Shawn Morrell
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910-2211

Project Name: Drinking Water

Work Order Number: A4D0157
Date Received: 04/04/2024

PDF REPORT

This signed Certificate of Analysis is our approved release of your analytical results.

- These results are only representative of sample aliquots received at the laboratory.
- Analytical Balance expects its clients to follow all regulatory sampling guidelines.
- Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory.
- Samples will be disposed of **thirty** days after the final report has been delivered.
- If you have any questions or concerns, please feel free to contact our Customer Service Department (info@H2Otest.net).

ANALYTICAL SUMMARY

- The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan.
- This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies.
- The analyses with noted observations are in conformance to the Quality Assurance Plan.
- In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.
- Calculations utilize concentration values prior to rounding. The final calculated result is rounded to three significant figures.

QUALITY CONTROL

- The test results presented in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP).
- The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Shawn Morrell
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910-2211

Project Name: Drinking Water

Work Order Number: A4D0157
Date Received: 04/04/2024

Client ID: 24D0127-01
Laboratory ID: **A4D0157-01**
Matrix: Drinking Water

Sampled By: Client
Date/Time Sampled: 04/03/24 14:36

Inorganic Chemistry

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
Odor	2150B Mod	04/04/24 15:45	TON	1	1	3 #	**1**

Laurel Stoddard
Laboratory Director

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Shawn Morrell
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910-2211

Project Name: Drinking Water

Work Order Number: A4D0157
Date Received: 04/04/2024

Work Order Narrative

See the Notes and Definitions section for further information regarding data qualifiers.

Notes and Definitions

H	Estimated value. Sample hold times were exceeded.
J	Reported between MDL and MRL
CFU	Colony Forming Units
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too Numerous to Count
dry	Sample results reported on a dry weight basis

A4D0157

ESS LABORATORY

185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
[redacted]
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 24D0157 | Page of

A4D0157

Turn Time ☐ >5 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: **Criteria:**

Is this project for any of the following?:

☐ CT RCP ☑ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERA[BLES]

☐ Limit Checker ☐ State Fo[rm]
☐ Excel ☐ Hard C[opy]
☐ CLP-Like Package ☐ Other (

CLIENT INFORMATION

Client: Fuss and O'Neill
Address: 1550 Main Street, Suite [illegible]
Springfield, Mass
Phone:
Email Distribution List:

PROJECT INFORMATION

Project Name: Shutesbury PWS Pumping test
Project Location: Shutesbury, MASS
Project Number: 20091032.A11
Project Manager: Matt Kissane
Bill to: Matt Kissane
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Total Coliform	Gross Alpha kit	SOC	Perchlorate	Secondary Contaminants	IOC Metals	Cyanide	Ammonia	ODO	VOA 524	PFAS							Total Number of Bottles
1	4/3/24	1936	Drinking Water		18382240403-02	1	1	1	1	1	3	1	1	1	1	2							1

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Sampled by : Jon Kilfredge

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only

Cooler Temperature (°C): 0.2

Comments: * Please specify "Other" preservative and containers types in this space

7.4 C UPON DELIVERY Iced 4°C

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration

☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
[signature]	4/3/24	1936	[signature] 4/3/24 15:05	[signature] 4/3/24		17:07	Payton Davis
[signature]	4/4/24	8:45	[signature] 4/4/24 8:52	[signature] 4/4/24 13:48	4/4/24	13:49	[signature]

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 27 SEP 2023

M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA

NON POTABLE WATER (CHEMISTRY) **Effective Date** **03 MAR 2023** **Expiration Date** **30 JUN 2024**

Analytes	Methods
ALUMINUM	EPA 200.8
ANTIMONY	EPA 200.8
ARSENIC	EPA 200.8
BERYLLIUM	EPA 200.8
CADMIUM	EPA 200.8
CHROMIUM	EPA 200.8
COBALT	EPA 200.8
COPPER	SM 3111B
COPPER	EPA 200.8
IRON	SM 3111B
LEAD	EPA 200.8
MANGANESE	SM 3111B
MANGANESE	EPA 200.8
MOLYBDENUM	EPA 200.8
NICKEL	EPA 200.8
SELENIUM	EPA 200.8
SILVER	SM 3111B
SILVER	EPA 200.8
THALLIUM	EPA 200.8
VANADIUM	EPA 200.8
ZINC	SM 3111B
ZINC	EPA 200.8
PH	SM 4500-H-B
SPECIFIC CONDUCTIVITY	SM 2510B
TOTAL DISSOLVED SOLIDS	SM 2540C
HARDNESS (CACO3), TOTAL	SM 2340B
CALCIUM	SM 3111B
MAGNESIUM	SM 3111B
SODIUM	SM 3111B
POTASSIUM	SM 3111B
ALKALINITY, TOTAL	SM 2320B
ALKALINITY, TOTAL	EPA 310.2
CHLORIDE	SM 4110B
SULFATE	SM 4110B
AMMONIA-N	EPA 350.1
NITRATE-N	EPA 353.2
NITRATE-N	SM 4110B
KJELDAHL-N	EPA 351.2
ORTHOPHOSPHATE	SM 4500-P-E
ORTHOPHOSPHATE	SM 4110B
PHOSPHORUS, TOTAL	SM 4500-P-B,E
CHEMICAL OXYGEN DEMAND	HACH METHOD 8000
BIOCHEMICAL OXYGEN DEMAND	SM 5210B

Certified Parameter List as of: 27 SEP 2023

M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA

NON POTABLE WATER (CHEMISTRY) **Effective Date** **03 MAR 2023** **Expiration Date** **30 JUN 2024**

Analytes	Methods
NON-FILTERABLE RESIDUE	SM 2540D
CHLORINE, TOTAL RESIDUAL	SM 4500-CL-G
OIL AND GREASE	EPA 1664

POTABLE WATER (CHEMISTRY) **Effective Date** **27 SEP 2023** **Expiration Date** **30 JUN 2024**

Analytes	Methods
ALUMINUM	EPA 200.8
ANTIMONY	EPA 200.8
ARSENIC	EPA 200.8
BARIUM	EPA 200.8
BERYLLIUM	EPA 200.8
CADMIUM	EPA 200.8
CHROMIUM	EPA 200.8
COPPER	EPA 200.8
COPPER	SM 3111B
IRON	SM 3111B
LEAD	EPA 200.8
MANGANESE	EPA 200.8
MANGANESE	SM 3111B
MERCURY	EPA 200.8
NICKEL	EPA 200.8
SELENIUM	EPA 200.8
SILVER	EPA 200.8
SILVER	SM 3111B
THALLIUM	EPA 200.8
ZINC	EPA 200.8
ZINC	SM 3111B
NITRATE-N	EPA 353.2
NITRATE-N	SM 4110B
NITRATE-N	SM 4500-NO3-D
NITRITE-N	EPA 353.2
NITRITE-N	SM 4110B
NITRITE-N	SM 4500-NO2-B
FLUORIDE	SM 4110B
FLUORIDE	SM 4500-F-C
SODIUM	SM 3111B
CHLORIDE	SM 4110B
SULFATE	SM 4110B
TURBIDITY	SM 2130B
CHLORINE, RESIDUAL FREE	SM 4500-CL-G
CALCIUM	SM 3111B
ALKALINITY, TOTAL	SM 2320B

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 27 SEP 2023

M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA

POTABLE WATER (CHEMISTRY) **Effective Date** **27 SEP 2023** **Expiration Date** **30 JUN 2024**

Analytes	Methods
TOTAL DISSOLVED SOLIDS	SM 2540C
PH	SM 4500-H-B

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 24 APR 2023

M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA

NON POTABLE WATER (MICROBIOLOGY) **Effective Date** **01 JUL 2015** **Expiration Date** **30 JUN 2024**

Analytes		Methods
E. COLI	AMBIENT WATER	EPA 1603
E. COLI	AMBIENT WATER	EPA 1604
ENTEROCOCCI	AMBIENT WATER	EPA 1600
FECAL COLIFORM	WASTEWATER	MF-SM9222D
E. COLI	WASTEWATER	EPA 1603
ENTEROCOCCI	WASTEWATER	EPA 1600

POTABLE WATER (MICROBIOLOGY) **Effective Date** **23 NOV 2022** **Expiration Date** **30 JUN 2024**

Analytes		Methods
HETEROTROPHIC PLATE COUNT		SM9215B
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	MF-SM9222B
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	EPA 1604
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	ENZ. SUB. SM9223
FECAL COLIFORM	SOURCE WATER (ENUMERATION)	MF-SM9222D
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	ENZ. SUB. SM9223
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	EPA 1604
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	NA-MUG-SM9222G
TOTAL COLIFORM	SOURCE WATER (ENUMERATION)	EPA 1604
E. COLI	SOURCE WATER (ENUMERATION)	EPA 1603
E. COLI	SOURCE WATER (ENUMERATION)	EPA 1604
ENTEROCOCCI	SOURCE WATER (P/A)	EPA 1600
ENTEROCOCCI	SOURCE WATER (P/A)	ENTEROLERT

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Shawn Morrell
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910

Project Name: ESS Laboratory Sampling

Work Order Number: D404057
Date Received: 04/03/2024

PDF REPORT

This signed Certificate of Analysis is our approved release of your analytical results.

- These results are only representative of sample aliquots received at the laboratory.
- Analytical Laboratory Services, Inc. expects its clients to follow all regulatory sampling guidelines.
- Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory.
- Samples will be disposed of **thirty** days after the final report has been delivered.
- If you have any questions or concerns, please feel free to contact our Customer Service Department (ESSProjectManagement@thielsch.com).

ANALYTICAL SUMMARY

- The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan.
- This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies.
- The analyses with noted observations are in conformance to the Quality Assurance Plan.
- In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.
- Calculations utilize concentration values prior to rounding. The final calculated result is rounded to three significant figures.

QUALITY CONTROL

- The test results presented in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP).
- The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Shawn Morrell
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910

Project Name: ESS Laboratory Sampling

Work Order Number: D404057
Date Received: 04/03/2024

Client ID: 24D0127-01
Laboratory ID: **D404057-01**
Matrix: Drinking Water

Sampled By: Jon K
Date/Time Sampled: 04/03/24 14:36

Microbiology

Parameter	Analytical Method	Date/Time Analyzed	Units	Detection Limit	Dilution Factor	DW MCL/ Recommended Limit #	Result
E.coli	SM9223B	04/03/24 17:45	/100mL	1	1	Absent	Absent
Total Coliform	SM9223B	04/03/24 17:45	/100mL	1	1	Absent	Absent

Laurel Stoddard
Laboratory Director

ESS Laboratory
DIVISION OF THE RISE GROUP

BAL Laboratory Analytical Balance

CERTIFICATE OF ANALYSIS

Shawn Morrell
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910

Project Name: ESS Laboratory Sampling

Work Order Number: D404057
Date Received: 04/03/2024

Work Order Narrative

See the Notes and Definitions section for further information regarding data qualifiers.

Notes and Definitions

J	Reported between MDL and MRL
CFU	Colony Forming Units
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too Numerous to Count
dry	Sample results reported on a dry weight basis

ESS LABORATORY

185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
[redacted]
www.esslaboratory.com

BAL

CHAIN OF CUSTODY D40057

ESS Lab # 7400127 | Page of

Turn Time ☐>5 ☐5 ☐4 ☐3 ☐2 ☐1 ☐ Same Day

Regulatory State: Criteria:

Is this project for any of the following?:
☐ CT RCP ☑ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)
☐ Limit Checker ☐ State Forms ☐ EQuIS
☐ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☐ Other (Specify) →

CLIENT INFORMATION

Client: Fuss and O'Neill
Address: 1550 Main Street, Suite 402
Springfield, Mass
Phone:
Email Distribution List:

PROJECT INFORMATION

Project Name: Shutesbury PWS Pumping test
Project Location: Shutesbury, MASS
Project Number: 20191032.A11
Project Manager: Matt Kissne
Bill to: Matt Kissne
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Total Coliforms	Gross Alpha 1&2	SOC	Perchlorate	Secondary Contaminants**	3 metals	Cyanide	Ammonia	Color	VOC 524	PFAS	Total Number of Bottles
1	4/3/24	1436	Drinking Water		18382/0403-02	1	1	1	1	1	3	1	1	1	1	2	16

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Sampled by : Jan Kijowski

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only
Cooler Temperature (°C): 0.4

Comments: * Please specify "Other" preservative and containers types in this space

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration
☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
[signature]	4/3/24	1436	[signature] 4/3/24 15:03	[signature] 4/3/24		17:07	[signature] Taylor Davis
[signature]	4/3/24	1726	[signature]				

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 25 APR 2023

M-RIM01 BAL LABORATORY
CRANSTON RI

NON POTABLE WATER (MICROBIOLOGY) **Effective Date** **29 JAN 2019** **Expiration Date** **30 JUN 2024**

Analytes		Methods
E. COLI	AMBIENT WATER	MPN-SM9221F
ENTEROCOCCI	AMBIENT WATER	ENTEROLERT
FECAL COLIFORM	WASTEWATER	MPN-SM9221E
FECAL COLIFORM	WASTEWATER	MF-SM9222D
E. COLI	WASTEWATER	MPN-SM9221F
ENTEROCOCCI	WASTEWATER	ENTEROLERT

POTABLE WATER (MICROBIOLOGY) **Effective Date** **15 DEC 2022** **Expiration Date** **30 JUN 2024**

Analytes		Methods
HETEROTROPHIC PLATE COUNT		SM9215B
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	EPA 1604
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	ENZ. SUB. SM9223
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	ENZ. SUB. SM9223
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	EPA 1604
TOTAL COLIFORM	SOURCE WATER (ENUMERATION)	MF-SM9222B
TOTAL COLIFORM	SOURCE WATER (ENUMERATION)	EPA 1604
E. COLI	SOURCE WATER (ENUMERATION)	EPA 1604
E. COLI	SOURCE WATER (ENUMERATION)	NA-MUG-SM9222G

State of Rhode Island and Providence Plantations
DEPARTMENT OF HEALTH

APPENDIX TO ANALYTICAL LABORATORY CERTIFICATE No. LAI00036

BAL Laboratory
185 Frances Avenue
Cranston, RI 02910
401 785-0241

Expiration Date: December 31, 2023 **Date Issued: August 25, 2023**

Potable Water - Microbiology

Total Coliform	SM9221B
Total Coliform MF	SM9222B (m-Endo)
Total Coliform	SM9223B Colilert
Total Coliform	SM9223 B Colisure PA
Total Coliform	SM9223 COL ertQT
Total Coliform	SM9223 COLert-18QT
E.Coli	SM9222B M-Endo + G(EC MUG)
Fecal Coliform	SM9222D m FC
Fecal Coliform	SM9223 COLert-18QT
Fecal Coliforms	SM9221E
Total Coliform	EPA 1604 MF
E.Coli	EPA 1604 MF (MI)
E.Coli	EPA 1603 MF (mTEC)
E.Coli	SM9221B F ECMUG
E.Coli	SM9223 Colilert PA
E.Coli	SM9223 B Colisure PA
E.Coli	SM9223 COL ertQT MPN
E.Coli	SM9223 COLert-18QT MPN
Heterotrophic Plate Count	SM9215B
E.Coli	SM9213D
E.Coli	EPA 1103.1 m TEC
Enterococci MPN	Enterolert IDEXX

Non-Potable Water - Microbiology

Total Coliform	SM9221B LTB
Total Coliform	EPA1604 (MI)
Fecal Coliform	SM9221B + E + C
Fecal Coliform	SM9222D m FC
Fecal Coliform MPN	SM9223B (Colilert18 Quanti-Tray)
E. coli MPN	EPA 1604 (MI)
E. coli	SM9221B + F ECMUG
E. coli	EPA 1103.1 (mTEC)
E. coli	SM9213D

Certification Officer

State of Rhode Island and Providence Plantations
DEPARTMENT OF HEALTH

APPENDIX TO ANALYTICAL LABORATORY CERTIFICATE No. LAI00036

BAL Laboratory
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401 785-0241

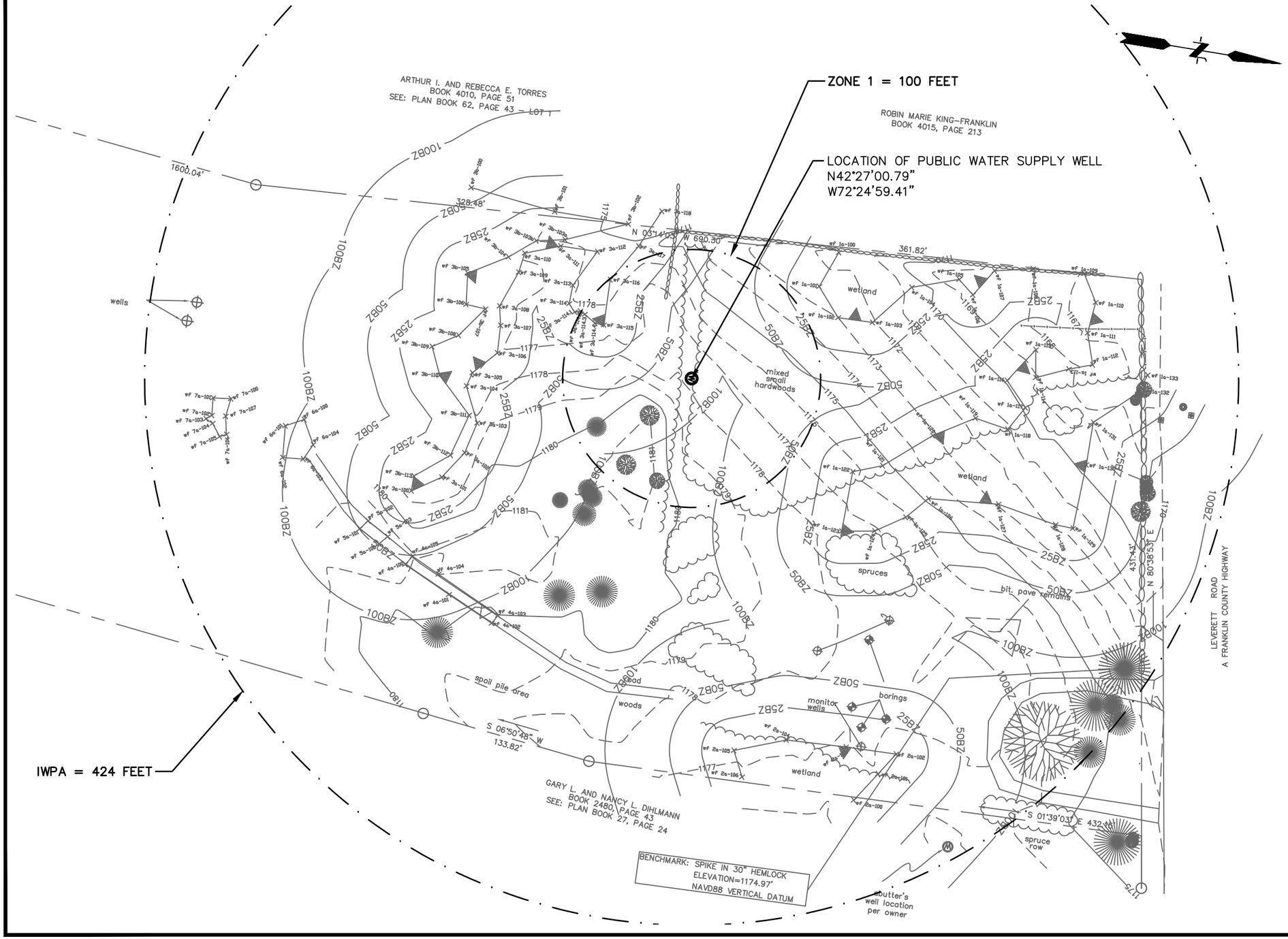
Expiration Date: December 31, 2023 **Date Issued: August 25, 2023**

E. coli	EPA 1603 mTEC
Enterococci MPN	Enterolert IDEXX
Enterococci MF	EPA 1600 mEI

Certification Officer

Appendix I

Site Survey Plan



MAP REFERENCE

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE BASED ON SURVEY COMPLETED BY HAROLD L. EATON & ASSOCIATES. CAD FILE PROVIDED VIA EMAIL ON JUNE 8, 2023
2. VERTICAL BENCHMARK:

   SPIKE IN 30" HEMLOCK
   ELEVATION=1174.97
   NAVD88 VERTICAL DATUM
3. WETLAND DELINEATION COMPLETED BY FUSS & O'NEILL ON AUGUST 5, 2022 AND AUGUST 16, 2022.
4. LOCATION OF PUBLIC WATER SUPPLY WELL IS BASED ON GPS DATA.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
-				

SCALE:
HORZ.: 1" = 80'
VERT.: -
DATUM:
HORZ.: -
VERT.: -
0 40' 80'
GRAPHIC SCALE

FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

TOWN OF SHUTESBURY

PROPOSED SHUTESBURY PUBLIC LIBRARY
WELL LOCATION MAP

66 LEVERETT RAOD

SHUTESBURY MASSACHUSETTS

PROJ. No.: 20221110.a10
DATE: JUNE 2024

FIG. 3