Old White Meeting House
320 US-2
South Hero, Vermont 05486

VT DEC SMS #2024-5472
KAS #510210643

SITE INVESTIGATION REPORT

April 8, 2025

Prepared for:

Northwest Regional Planning Commission
75 Fairfield Street
St Albans, VT 05478

kas
environmental science & engineering

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

www.kas-consulting.com

802 383.0486 p
802 383.0490 f

Table of Contents

Appendices

Certification

This report, which summarizes the Site Investigation completed at the Old White Meeting House property located at 320 US-2 in South Hero, Vermont, has been prepared under my direction in accordance with KAS' approved Work Plan & Site-Specific Quality Assurance Project Plan Addendum revised on February 5, 2025 and current Vermont Department of Environmental Conservation (VT DEC) requirements as presented in the *Investigation and Remediation of Contaminated Properties Rule* (I-Rule) document dated February 23, 2024.

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

Jeremy Roberts, P.G.
Vice-President / Environmental Program Manager

Executive Summary

This report presents the results of a Site Investigation conducted at the Old White Meeting House property located at 320 US-2 in South Hero, Vermont ("Site" or "property"; see Site Location Map, Appendix A). This work was performed by KAS, Inc. (KAS) for the Northwest Regional Planning Commission (NPRC) on behalf of the property owner (Town of South Hero) and was funded by NRPC through EPA Brownfields Assessment Cooperative Agreement #BF00A01264.

The property consists of approximately 0.51 acres of land that is currently developed with one building. The property building was constructed in the early 1800's for use as a church and town hall. As time went on, the lower portion of the building was reportedly used by the Town of South Hero as a town garage. The Site Investigation was proposed to further define the lead impacts to shallow soil identified during the completion of a Phase II Environmental Site Assessment (ESA) in May 2024, to evaluate whether a risk is posed to the potential reuse of the property and if so, to evaluate what corrective action(s) may be employed to minimize risk to the environment and human health. The Site Investigation work scope included an assessment of shallow soils around the property building to target areas of future proposed soil disturbance.

Environmental Conditions Assessment – Shallow Soils

On February 27, 2025, KAS advanced eight (8) shallow soil borings (SB25-01 through SB25-08) outside the property building to further evaluate lead impacts to soil. One discrete sample was collected at each shallow boring location from the 0 – 3" and 12 – 18" below grade (bg) interval for analysis of total lead via EPA Method 6020B. In addition, the samples were submitted for analysis of total arsenic via EPA Method 6020B and polycyclic aromatic hydrocarbons (PAHs) via EPA Method 8270E. On February 27, 2025, KAS also collected three (3) additional soil samples from the 0-3" bg interval along the southern, eastern and western sides of the Site building to match the sample depth and location previously obtained from sample locations SB24-01, SB24-03 and SB24-04 (see Site Map, Appendix A). These samples were analyzed using the Synthetic Precipitation Leaching Procedure (SPLP) for arsenic and lead to determine the potential for metals to leach into groundwater beneath the Site.

Arsenic and lead were reported at a concentration above the laboratory method detection limits in all the soil samples obtained on February 27, 2025. The arsenic concentrations were reported below the applicable urban background standard at all locations. Total lead was reported in five (5) of the eight (8) shallow samples collected from 0-3" bg and six (6) of the eight (8) samples collected from 12-18" bg at concentrations above the urban background standard of 111 mg/kg. The reported lead concentrations ranged from 11 – 1,000 mg/kg.

The SPLP analysis indicated a concentration of lead was present in the three (3) soil samples obtained immediately outside the building foundation above Vermont Groundwater Enforcement Standard (VGES). The SPLP concentrations of lead ranged from 0.43 – 0.98 mg/L (VGES = 0.015 mg/L). The SPLP analysis for arsenic reported non-detectable concentrations.

PAHs were detected in all eight (8) of the samples collected from 0-3" bg and in four (4) of the eight (8) samples obtained from 12-18" bg on February 27, 2025, with PAHs expressed as the toxic equivalent quotient (TEQ) for Benzo(a)pyrene (BaP) reported below the urban background concentration in all samples.

Conclusions / Recommendations

Based on the soil data obtained to date, data gaps exist at the Site which include 1) the full extent of lead impacts to shallow soils has not been defined across the property, and 2) groundwater impacts cannot be ruled out using the existing data. The Site does not appear to meet the criteria for exemption from an Evaluation of Corrective Action Alternatives (ECAA) or corrective action to the lead impacted soil at the Site not meeting the designation criteria to be considered "development soil" (i.e. soil needs to be deemed non-hazardous to meet this designation).

Based on the results of the Site Investigation conducted at the Site, KAS recommends the following:

1. An ECAA be prepared for the Site ahead of the preparation of a CAP. As part of the ECAA, additional soil samples should be collected at the Site to determine if lead impacts > VSS extend to the property boundaries. During this work, additional samples should also be collected from areas that will be disturbed for waste characterization purposes and additional Toxicity Characteristic Leaching Procedure (TCLP) analysis to further assess how much of the lead impacted soil is considered hazardous for lead content; and,

2. Due to the elevated levels of SPLP lead at select locations, groundwater monitoring wells should be installed immediately outside the building foundation to assess potential risk to groundwater. This data will be used in the ECAA and to assess the need for groundwater management / cleanup at the Site.

1.0 Introduction

This report presents the results of a Site Investigation conducted at the Old White Meeting House property located at 320 US-2 in South Hero, Vermont ("Site" or "property"; see Site Location Map, Appendix A). This work was performed by KAS, Inc. (KAS) for the Northwest Regional Planning Commission (NRPC) of St. Albans, Vermont on behalf of the property owner (Town of South Hero). This work was funded by NRPC through EPA Brownfields Assessment Cooperative Agreement #BF00A01264. A Site Vicinity Map and Site Map are included in Appendix A.

This document was prepared according to current Vermont Department of Environmental Conservation (VT DEC) requirements as presented in the *Investigation and Remediation of Contaminated Properties Rule* (I-Rule) document dated February 23, 2024. All work was done following the work plan Site-Specific Quality Assurance Project Plan (SSQAPP) dated January 24, 2025, revised February 5, 2025.

The owner and responsible party contact information is outlined below.

Owner / Responsible Party	Mailing Address	Contact Name	Phone	Email Address
Town of South Hero	P.O. Box 175 So Hero, VT 05468	Ms. Sue Arguin	(802) 372-5552	townadmin@southherovt.org

2.0 Background

KAS completed a Phase I Environmental Site Assessment (ESA) at the property in November 2021 in compliance with ASTM Standard E1527-21. The assessment revealed the following recognized environmental conditions (RECs) in connection with the property:

REC 1: The historical use of the property for vehicle servicing activities; and,
REC 2: The potential presence of elevated lead in shallow soils due to the likely historical presence of lead-based paint on the exterior of the property building.

KAS recommended the completion of a Phase II ESA to ascertain the presence or absence of contamination as a result of the RECs identified and to assess potential liability and business environmental risk associated with owning and redeveloping the property.

In May 2024, KAS completed a Phase II ESA which included an assessment of shallow soils immediately around the property building and the collection of sub-slab soil and soil gas data beneath the property building. One discrete sample was collected at each shallow boring location from the 0 – 3" below grade (bg) zone for analysis of total lead. In addition, KAS also advanced two borings through the concrete slab inside the former garage bays. One grab soil sample was collected at each location from soils directly below the building slab for laboratory analysis of volatile organic compounds (VOCs) via EPA Method 8260C. Following the collection of the sub-slab soil samples, these two locations were each finished with a sub-slab soil gas monitoring point. No elevated photoionization detector (PID) readings were encountered in any of the soil samples obtained from the borings advanced across the Site. The measured PID readings ranged from 0.1 – 0.7 parts per million by volume (ppmv). No odors were observed in the borings. Subsurface soils encountered during the advancement of soil borings consisted primarily of silty sand with some locations containing gravel fill. No VOCs were reported above laboratory method detection limits in the samples collected from beneath the slab of the building.

Total lead was reported in three (3) of the four (4) shallow samples collected outside the property building at concentrations above the applicable Vermont Soil Standard (VSS; urban background standard of 111 mg/kg). The reported lead concentrations ranged from 25 – 2,500 mg/kg. Due to the elevated lead concentrations reported, KAS instructed the laboratory to run Toxicity Characteristic Leaching Procedure (TCLP) analysis for three (3) of the samples to evaluate whether the soil would be considered hazardous by lead content. The TCLP-lead results ranged from 0.7 – 12 mg/L, with one of the locations (SB24-03) exceeding the threshold of 5.0 mg/L for hazardous waste.

On May 29, 2024, KAS installed two (2) sub-slab soil gas monitoring points (SVP-1 and SVP-2). A discrete soil gas sample was collected from both soil gas monitoring points on June 5, 2024. No VOCs were reported at a concentration above the resident sub-slab vapor intrusion standard (VIS).

Based on the Phase II ESA data, KAS recommended additional soil samples be collected near the locations where lead exceeded VSS to further define the vertical and horizontal extent of impacts. During this work, KAS also recommended shallow soil samples be collected from areas of planned future disturbance to assess the potential for polycyclic aromatic hydrocarbon (PAH), lead and arsenic impacts with select samples submitted for Synthetic Precipitation Leaching Procedure (SPLP) and Toxicity Characteristic Leaching Procedure (TCLP) analysis.

Due to the Phase II ESA findings, the report was shared with the VT DEC to satisfy statutory reporting obligations. On October 17, 2024, the VT DEC listed the property as an active hazardous waste site under SMS #2024-5472 and requested a Site Investigation be completed in accordance with the I-Rule.

3.0 Scope of Work / Work Plan Deviations / Objectives / SOPs / Digsafe

3.1 Scope of Work and Work Plan Deviations

The Site Investigation work scope was designed to further evaluate the contaminants of concern identified during the Phase I ESA and/or Phase II ESA and was intended to provide environmental data concerning the sampled media to assist in evaluating the Site for future use and redevelopment. The following tasks were completed as part of the Site Investigation:

1. Work Plan & SSQAPP Addendum to KAS' approved Generic QAPP (RFA #23132), and submittal, notifications, approvals, project coordination, and health and safety plan (HASP) preparation;
2. Collection of shallow soil samples at the property for laboratory analysis to evaluate the potential presence of arsenic, lead and polycyclic aromatic hydrocarbons (PAHs);
3. Assessment of the potential for impacts to sensitive receptors and a qualitative evaluation of risks posed by the discovered subsurface impacts;
4. Refinement of the conceptual site model; and,
5. Preparation of a summary report (this document).

All components of the Site Investigation scope of work were accomplished and no deviations from the approved work scope occurred except for the following:

1. The laboratory did not analyze any soil samples for toxicity characteristic using the TCLP, as instructed on the chain of custody; and,

2. Due to a field error, only one duplicate sample was collected for PAHs, lead and arsenic analysis as opposed to the two duplicates called out in the SSQAPP.

These deviations are not believed to have an impact on the overall findings and data quality obtained from the Site Investigation.

3.2 Objectives

The primary goal of the Site Investigation was to further define lead impacts in shallow soils beneath the Site to evaluate whether a risk is posed to the potential reuse of the property. Additional goals of the Site Investigation were to assess the potential for urban fill contaminants to be present in soil beneath the Site and to assess potential risk to groundwater. This information was used to evaluate whether a risk is posed to nearby sensitive receptors and/or adjacent properties and if so, what corrective action(s) may be employed to minimize risk to the environment and human health.

3.3 Property Zoning and Applicable Standards

The Site lies in a designated urban background area according to the VT DEC and therefore the VT urban background soil standard for arsenic, lead and PAHs applies to the data obtained from the Site property.

3.4 Standard Operating Procedures (SOPs)

The following standard operating procedures (SOPs) were used during the Site Investigation activities. A copy of each SOP is available upon request.

KAS Protocol	Title
001	Soil Screening Headspace Measurement
004	Soil Boring Advancement
005	Shallow Soil Sampling
006	Sample Containerization, Preservation, Handling and Packaging
034	Use and Maintenance of MiniRae Photoionization Detector

3.5 Digsafe Notification / Utility Clearance

The property was pre-marked for Digsafe notification on February 24, 2025 (Digsafe Ticket # 20250900073). Each proposed boring location was determined to be clear of any known subsurface utilities.

4.0 Environmental Assessment – Soils

4.1 Exterior Property Grounds – Shallow Soil Boring Advancement and Soil Sampling

On February 27, 2024, KAS assessed shallow soils at eight (8) locations at the Site (SB25-01 through SB25-08) to further evaluate the extent of lead impacts in areas that will be disturbed during planned redevelopment (see Site Map, Appendix A). A Geoprobe 6011DT drill rig was used to collect soil samples from each boring for laboratory testing. The soil borings were advanced to a maximum depth of 18" bg. At each of the soil borings a discrete sample was collected for laboratory analysis of total lead from the 0-3" and 12-18" bg intervals for a total of sixteen (16) samples. The soil samples were logged for lithological characterization and field screened for the

presence of VOCs using a PID. The location of each boring was logged in the field using a handheld GPS.

At each boring location, KAS also collected a discrete laboratory analytical sample from the 0-3" and 12-18" bg intervals for laboratory analysis of arsenic and PAHs. No clear distinction between a fill and native layer was identified, therefore the sampling depth intervals were not altered.

While on-site on February 27, 2025, three (3) additional soil borings / soil samples were obtained from the 0-3" bg interval along the south, east and west sides of the building to match the sample depth and location previously obtained from SB24-01, SB24-03 and SB24-04 (see Site Map, Appendix A). These samples were analyzed using the SPLP for arsenic and lead to determine the potential for metals to leach into the groundwater. All samples were transported under chain of custody procedures to Eastern Analytical, Inc (Eurofins).

For quality assurance / quality control (QAQC) purposes, one duplicate sample per analytical parameter was collected. All excess soil boring cuttings were placed back in the boring upon completion of sampling.

Soil Screening Summary

No elevated PID readings were encountered in any of the soil samples except at sample SB24-03R. No odors or staining was observed in this sample and the source of the elevated PID reading is not clear. The measured PID readings ranged from 0.1 – 12.2 ppmv. Soil encountered during the advancement of soil borings consisted primarily of silty sand with some gravel fill observed. Some red brick fragments were noted between 14 – 24" bg at soil boring SB25-06.

Soil Sampling Results

Arsenic and lead were reported at a concentration above the laboratory reporting limit in all the soil samples obtained on February 27, 2025. The arsenic concentrations were reported below the applicable urban background standard at all locations. Total lead was reported in five (5) of the eight (8) shallow samples collected from 0-3" bg and six (6) of the eight (8) samples collected from 12-18" bg at concentrations above the urban background standard of 111 mg/kg. The reported lead concentrations ranged from 11 – 1,000 mg/kg.

The SPLP analysis indicated a concentration of lead was present in the three (3) soil samples obtained immediately outside the building foundation above Vermont Groundwater Enforcement Standard (VGES). The SPLP concentrations of lead ranged from 0.43 – 0.98 mg/L (VGES = 0.015 mg/L). The SPLP analysis for arsenic reported non-detectable concentrations.

PAHs were detected in all eight (8) of the shallower samples collected from 0-3" bg and in four (4) of the eight (8) samples obtained from 12-18" bg on February 27, 2025, with PAHs expressed as the toxic equivalent quotient (TEQ) for Benzo(a)pyrene (BaP) reported below the urban background concentration in all samples.

Soil Concentration Maps for PAHs and lead are included in Appendix A.

QA/QC Results

One duplicate sample was collected for PAH, lead, and arsenic analysis. The relative percent difference (RPD), which is defined as one hundred times the difference between the parent sample

and the duplicate sample divided by the mean of the two samples ranged from -5.1% to 28.6% for PAHs and metals, which suggests adequate QA/QC measures were maintained.

A tabulated summary of the soil sampling results is included in Appendix C and the laboratory report is provided in Appendix D.

5.0 Data Validation

Upon receipt of the laboratory analytical data collected during this Site Investigation, KAS' quality assurance officer (QAO) performed data validation as described in the SSQAPP Addendum. The validation evaluated the usability of the data generated throughout the investigation. The Data Validation Report is included in Appendix E.

All work was completed in accordance with the approved SSQAPP Addendum unless otherwise stated in Section 3.1 and the Data Validation Report included in Appendix E.

QAPP Modifications

Representative samples were collected appropriately. The scope of work and sampling procedures detailed in the SSQAPP Addendum was not modified based on field conditions unless otherwise stated in Section 3.1 and the Data Validation Report included in Appendix E.

Verification of Sampling Procedures & Chain of Custody

As indicated in the Data Validation Report, KAS' QAO determined that the sampling appears to have been performed appropriately and is representative of the field conditions encountered. Data should be accepted based on field sampling procedures documented.

Lab QA/QC Findings

It was documented that representative samples were collected appropriately. The data collected for this investigation was accepted by the QAO.

6.0 Conceptual Site Model

6.1 Site Conditions and Property History

The property is located off the northern side of US Route 2 in South Hero, Vermont. The property lies between Wally's Point Road and Hill Road within the northern portion of the Town of South Hero. The property consists of approximately 0.51 acres and is located within a residential zoning district according to the Town of South Hero.[1] The property coordinates are – 73.304884° west longitude and 44.645901° north latitude.[2] The property is generally flat throughout and is accessed via paved entrances off US Route 2. No bedrock outcroppings or surface water have been noted on the property or in the vicinity. The general area predominantly consists of a mix of residential and commercial development.

[1] Town of South Hero
[2] Envirosite

One building is present on the property consisting of an approximately 2,000-SF two-story wood frame structure. The building is dated 1816 according to the signage near its front door. Two overhead garage doors with garage bays are present along the lower portion of the building. The lower portion of the building is vacant except for some storage of various thrift shop items. The upper floors are used to store and display thrift shop items as part of the Granny's Attic. A Site Map which shows relevant Site features is included in Appendix C.

The property building was constructed in the early 1800's for use as a church and town hall. As time went on, the lower portion of the building was reportedly used by the Town of South Hero as a town garage which reportedly included some degree of vehicle servicing. No other historical uses of the property are known.

Based on a review of topographic maps and aerial photography, the Site lies at an approximate elevation of 150 feet above mean sea level (AMSL). Lake Champlain is located approximately 0.5 miles to the north of the property. Based on Site topography, the surface drainage from the Site is anticipated to flow in a general northerly direction. The property area is served by municipal sewer and water, natural gas, electricity, and telecommunications. No other subsurface infrastructure is known to be present beneath or near the Site.

As of the date of this report, neighboring property uses consist of the following:

North: Former So Hero Fire Department followed by open agricultural land
South: US Route 2 followed by residential properties
West: Farmers Market and restaurant
East: Blue Paddle Bistro (restaurant)

6.2 Geology

According to the Surficial Geology Map of Vermont[3], the overburden deposits near the property primarily consist of till. According to the Bedrock Geology Map of Vermont[4], the property is underlain by dark-gray calcareous shale with beds of bluish-gray limestone.

No bedrock outcrop points are present on the property and no wetland areas have been identified on or near the property according to Vermont Department of Environmental Conservation (VT DEC) records.

6.3 Hydrogeology

The depth to groundwater beneath the property is unknown but is estimated to be less than 10.0 feet below grade and flow in a general northerly direction based on Site topography and the location to nearby surface waters.

6.4 Apparent Source(s) of Release

Prior to completion of the Phase II ESA, no releases of hazardous materials at the property were reported. The Phase I ESA completed by KAS in November 2021 identified the presence of lead-based paint on the outside of the property building and the potential past use of the property building for vehicle maintenance. No other potential sources on site are known to exist or have been identified at this time.

[3] Surficial Geologic Map of Vermont, 1970
[4] Bedrock Geologic Map of Vermont, 2011

Lead impacts to shallow soils around the property building are believed to be related to the historical presence of lead-based paint on the exterior of the building as the building was constructed pre-1978.

The past use of the building as a garage does not appear to have resulted in evidence of a release of regulated VOCs and since the completion of the Phase I ESA, the Town of South Hero has clarified that the property building was not used for any vehicle repair work in the past.

6.5 Contaminant Fate and Transport

Lead impacts > VSS have been identified in shallow soils at several locations around the property building. Transport of lead to these soils likely occurred through the chipping and flaking of exterior paint containing lead onto the surrounding soil, or the leaching of lead into soil through rainwater coming in contact with the exterior paint and dripping onto the soil below. The lead impacts appear to extend at least 10 – 20 feet away from the building foundation and may be widespread across the property; however, the full extent of these impacts is not clear based on the testing completed to date.

The lead concentrations in soil have been shown to increase with depth at several locations. The higher levels of lead at the 12 – 18" bg interval versus the 0 – 3" bg interval may be due to the surface grade around the Site building changing over time. It is possible topsoil / soil was brought in to raise the elevation around the building at one time which would mean the 12 – 18" bg interval was previously representative of the surface grade. However, it is also possible lead has leached downward overtime via rainwater resulting in higher concentrations at slightly deeper soil depths.

Generally, lead and other metals exhibit low mobility (do not easily dissolve in water) and will persist in the environment once adsorbed onto soils. Heavy metals are slow to degrade under natural conditions. Shallow soil samples collected at three locations immediately outside the Site building foundation have indicated that the potential exists for lead to leach into the groundwater at concentrations exceeding VGES. Given this information and that the reported lead concentrations in soil beneath the Site have been shown to increase with depth at several locations, the risk for groundwater impacts cannot be ruled out at this time.

6.6 Exposure Pathways and Sensitive Receptor Risk Assessment

A review of potential exposure pathways and a sensitive receptor risk assessment of the area surrounding the property is provided below, and a determination of the potential risk to identified exposure pathways and receptors has been made based on proximity to the impacted areas, the presumed groundwater flow direction, contaminant mobility and volatility, and contaminant concentration levels in soil.

Exposure Pathway / Sensitive Receptor	**Pathway Complete or Incomplete**	**Supporting Documentation**
Direct human contact to soil or groundwater	Deemed Complete	Impacted soils have been identified to be present at surface depths and some of these soils are not capped with hardscape cover.
Soil to groundwater (drinking water)	Unknown	The SPLP lead data collected at select shallow soil locations indicates there is potential risk of lead leaching into groundwater at concentrations above VGES. There are no supply wells within one ½ mile of the Site.

Exposure Pathway / Sensitive Receptor	Pathway Complete or Incomplete	Supporting Documentation
Inhalation of soil vapor	Deemed Incomplete	Soil gas testing beneath the Site does not support the likely presence of a complete vapor intrusion pathway.
Soil to surface water	Deemed Incomplete	Impacts to nearby surface water are not likely based on existing data.
Groundwater to surface water	Deemed Incomplete	Impacts to nearby surface water are not likely based on existing data.
Groundwater or vapor migration to utility corridors	Deemed Incomplete	Groundwater or vapor migration via the nearest utility line corridors is not believed to be a concern based on available data.

Routes of potential exposure to current and future site users include absorption via dermal contact and/or ingestion of soil. Impacted soils > VSS have been identified at shallow depths at various locations at the Site property. Some of these locations do not currently have hardscape cover and/or restricted access and shallow soil in these areas could present a direct contact risk. Potential exposure to groundwater is not deemed to be of concern given the presumed depth to groundwater and the lack of groundwater use for the Site property.

7.0 Data Gap Analysis

Taking into consideration the conceptual site model presented in Section 6.0, KAS has completed an evaluation of potential data gaps at the Site. A complete picture of the property history and use has been obtained through prior completion of a Phase I ESA.

The current data set has not fully defined the extent of lead impacts to shallow soils across the property and it is presumed impacts > VSS extend further away from the Site building than the soil boring locations completed to date. However, the data set is deemed sufficient to adequately assess potential arsenic and PAH impacts to soil at the Site.

Shallow soil samples collected at three (3) locations immediately outside the Site building foundation have indicated that the potential exists for lead to leach into the groundwater at concentrations exceeding VGES. The reported lead concentrations in soil beneath the Site have been shown to increase with depth at several locations. Therefore, the existing data set is deemed inadequate to rule out potential risk to groundwater.

The Site does not appear to meet the criteria for exemption from an Evaluation of Corrective Action Alternatives (ECAA) or corrective action due to the lead impacted soil at the Site not meeting the criteria to be considered "development soil" (i.e. soil needs to be deemed non-hazardous to meet this designation). The TCLP-lead results previously obtained in shallow soil around the Site building ranged from 0.7 – 12 mg/L, with one of the locations (SB24-03) exceeding the threshold of 5.0 mg/L for hazardous waste. Therefore, at least some of the lead impacted soil at the Site is deemed to be hazardous and does not meet the designation to be considered "development soil".

8.0 Conclusions

KAS has completed a Site Investigation in accordance with the approved Work Plan / SSQAPP revised February 5, 2025 and following the requirements set forth in the VT DEC I-Rule. Based on the results of the investigative work conducted, KAS presents the following conclusions:

1. On February 27, 2025, KAS advanced eight (8) shallow soil borings (SB25-01 through SB25-08) outside the property building to further evaluate lead impacts to soil. One discrete sample was collected at each shallow boring location from the 0 – 3" and 12 – 18" bg intervals for analysis of total lead via EPA Method 6020B. In addition, the samples were submitted for analysis of total arsenic via EPA Method 6020B and PAHs via EPA Method 8270E;

2. On February 27, 2025, KAS also collected three (3) additional soil samples from the 0-3" bg interval along the southern, eastern and western sides of the Site building to match the sample depth and location previously obtained at samples SB24-01, SB24-03 and SB24-04 (see Site Map, Appendix A). These samples were analyzed using the SPLP for arsenic and lead to determine the potential for metals to leach into the groundwater;

3. Arsenic and lead were reported at a concentration above the laboratory reporting limit in all the soil samples obtained on February 27, 2025. The arsenic concentrations were reported below the applicable urban background standard at all locations. Total lead was reported in five (5) of the eight (8) shallow samples collected from 0-3" bg and six (6) of the eight (8) samples collected from 12-18" bg at concentrations above the urban background standard of 111 mg/kg. The reported lead concentrations ranged from 11 – 1,000 mg/kg;

4. The SPLP analysis indicated a concentration of lead was present in the three (3) soil samples obtained immediately outside the building foundation above VGES. The SPLP concentrations of lead ranged from 0.43 – 0.98 mg/L (VGES = 0.015 mg/L). The SPLP analysis for arsenic reported non-detectable concentrations;

5. PAHs were detected in all eight (8) of the shallower samples collected from 0-3" bg and in four (4) of the eight (8) samples obtained from 12-18" bg on February 27, 2025, with PAHs expressed as the TEQ for BaP reported below the urban background concentration in all samples;

6. The objectives of the Site Investigation have been met; however, based on the soil data obtained to date, data gaps exist which include 1) the full extent of lead impacts to shallow soils has not been defined across the property, and 2) groundwater impacts cannot be ruled out using the existing data; and,

7. The Site does not appear to meet the criteria for exemption from an ECAA or corrective action due to the lead impacted soil at the Site not meeting the designation criteria to be considered "development soil" (i.e. soil needs to be deemed non-hazardous to meet this designation).

9.0 Recommendations

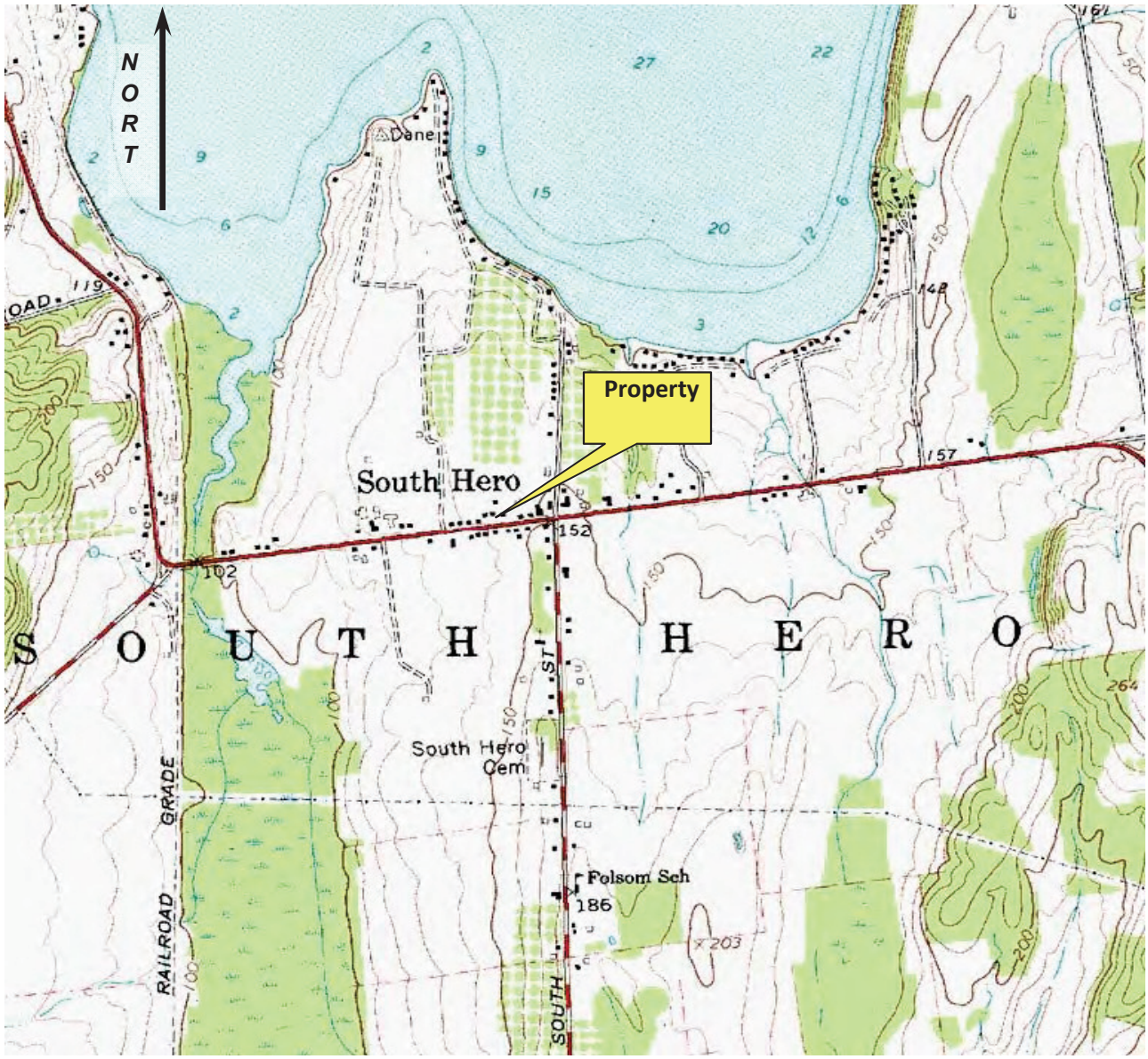
Based on the results of the Site Investigation conducted at the Site, KAS recommends the following:

1. An ECAA be prepared for the Site ahead of the preparation of a Corrective Action Plan (CAP). As part of the ECAA, additional soil samples should be collected at the Site to determine if lead impacts > VSS extend to the property boundaries. During this work, additional samples should also be collected from areas that will be disturbed for waste characterization purposes and additional TCLP analysis to further assess how much of the lead impacted soil is considered hazardous for lead content; and,

2. Due to the elevated levels of SPLP lead at select locations, groundwater monitoring wells should be installed immediately outside the building foundation to assess potential risk to groundwater. This data will be used in the ECAA and to assess the need for groundwater management / cleanup at the Site.

Appendix A

Site Location Map
Site Vicinity Map
Site Map
Soil: Total Lead Concentration Map (0-3")
Soil: Total Lead Concentration Map (12-18")
Soil: PAHs as TEQ Benzo(a)pyrene Concentration Map (0-3")
Soil: PAHs as TEQ Benzo(a)pyrene Concentration Map (12-18")



KAS Job Number *510210643*

Source: *www.topoquest.com, USGS South Hero, VT Quadrangle, 1966, photorevised 1983*

Old White Meeting House

320 US-2, South Hero, VT

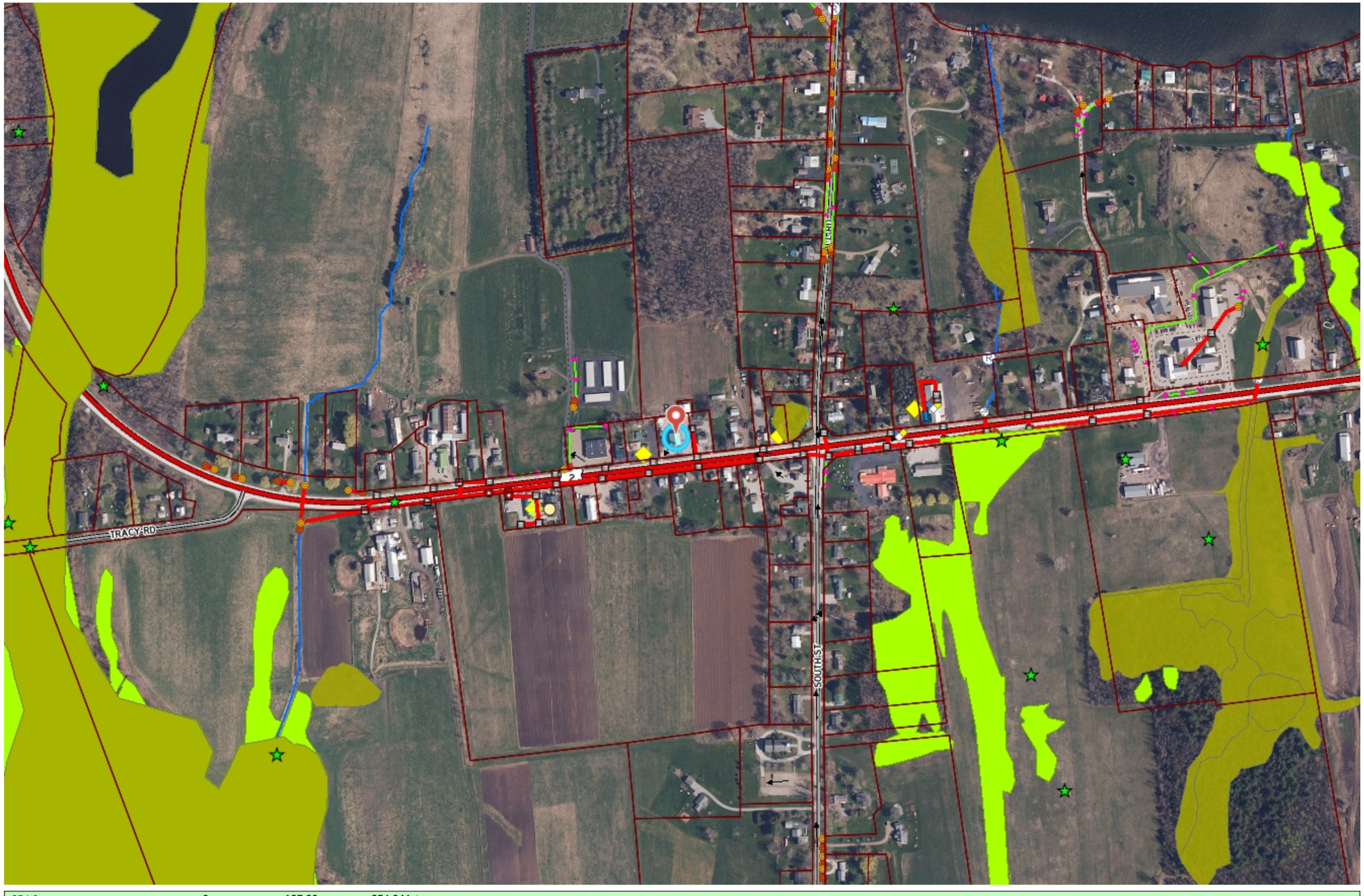
Site Location Map

Date: 11/05/21	Drawing No. 0	Scale: NTS	By: JR

Old White Meeting House Site Vicinity Map

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Wetland Projects
- Wetland - VSWI
  - Class 1 Wetland
  - Class 2 Wetland
  - Wetland Buffer
- Wetlands Advisory Layer
- Existing stormwater point
  - Pipe Cross (not connected)
  - Catchbasin
  - Dry Well
  - Drop Inlet
  - Grate/Curb Inlet
  - Yard drain
  - Junction Box
  - Stormwater Manhole
  - Outfall
  - Culvert inlet
  - Culvert outlet
  - Pond outlet structure
  - Treatment feature (see notes)
  - Retrofit
  - Unknown Point
  - Information Point
  - <all other values>
- Existing stormwater line
  - Storm line
  - Storm line (old Sanitary line)
  - Tunnel (storm)
  - Swale
  - Footing drain
  - Under drain
  - Roof drain
  - Infiltration pipe
  - French drain
  - Trench drain
  - Emergency spillway
  - Stream
  - Overland flow
- Existing stormwater area
- Sanitary Points
- Sanitary Lines

1: 5,000

1in = 417 ft.
1cm = 50 meters

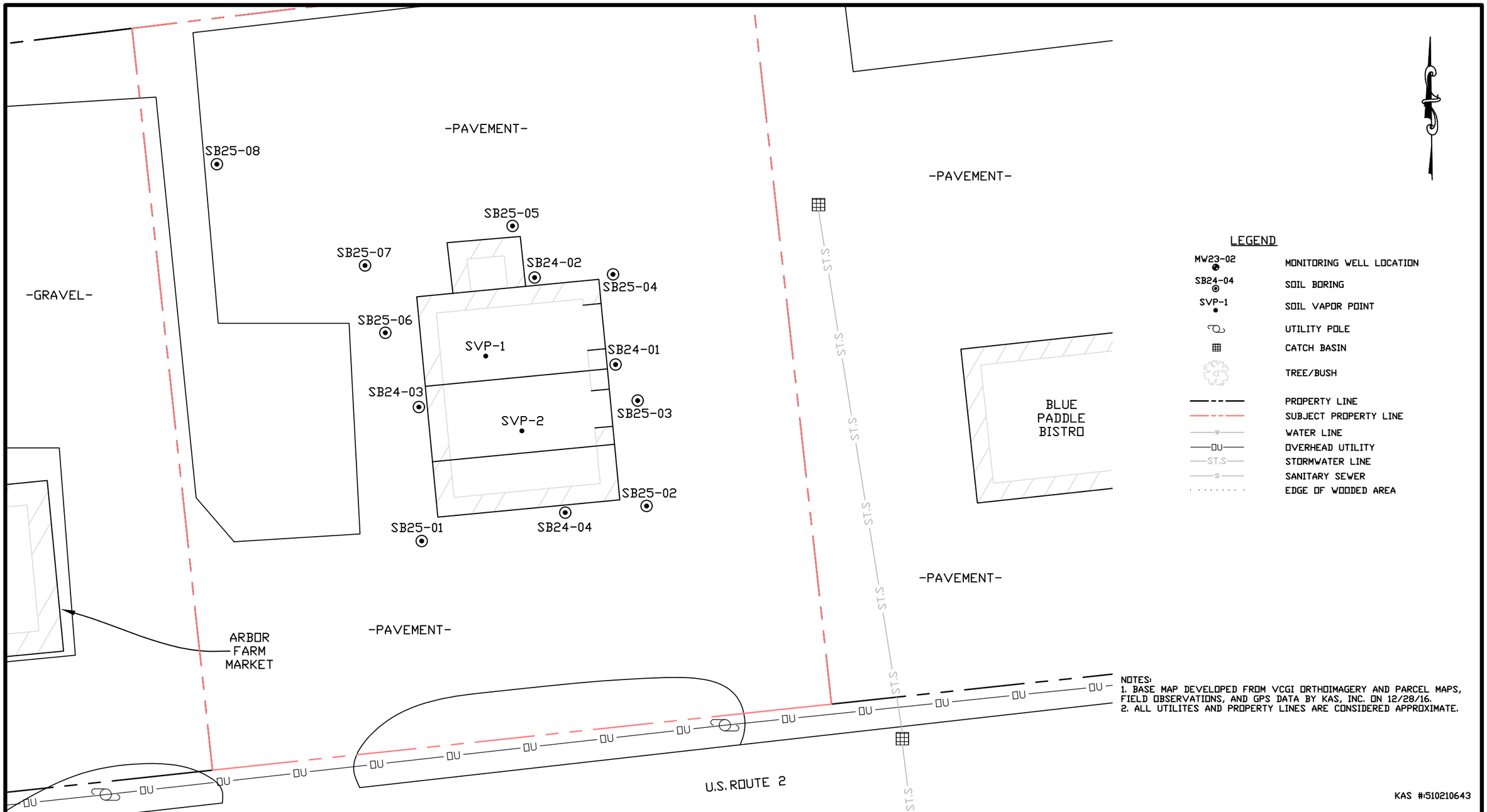
254.0 0 127.00 254.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

NOTES

Map created using ANR's Natural Resources Atlas

KAS #510210643



NOTES:
1. BASE MAP DEVELOPED FROM VCGI ORTHOIMAGERY AND PARCEL MAPS, FIELD OBSERVATIONS, AND GPS DATA BY KAS, INC. ON 12/28/16.
2. ALL UTILITES AND PROPERTY LINES ARE CONSIDERED APPROXIMATE.

KAS #:510210643

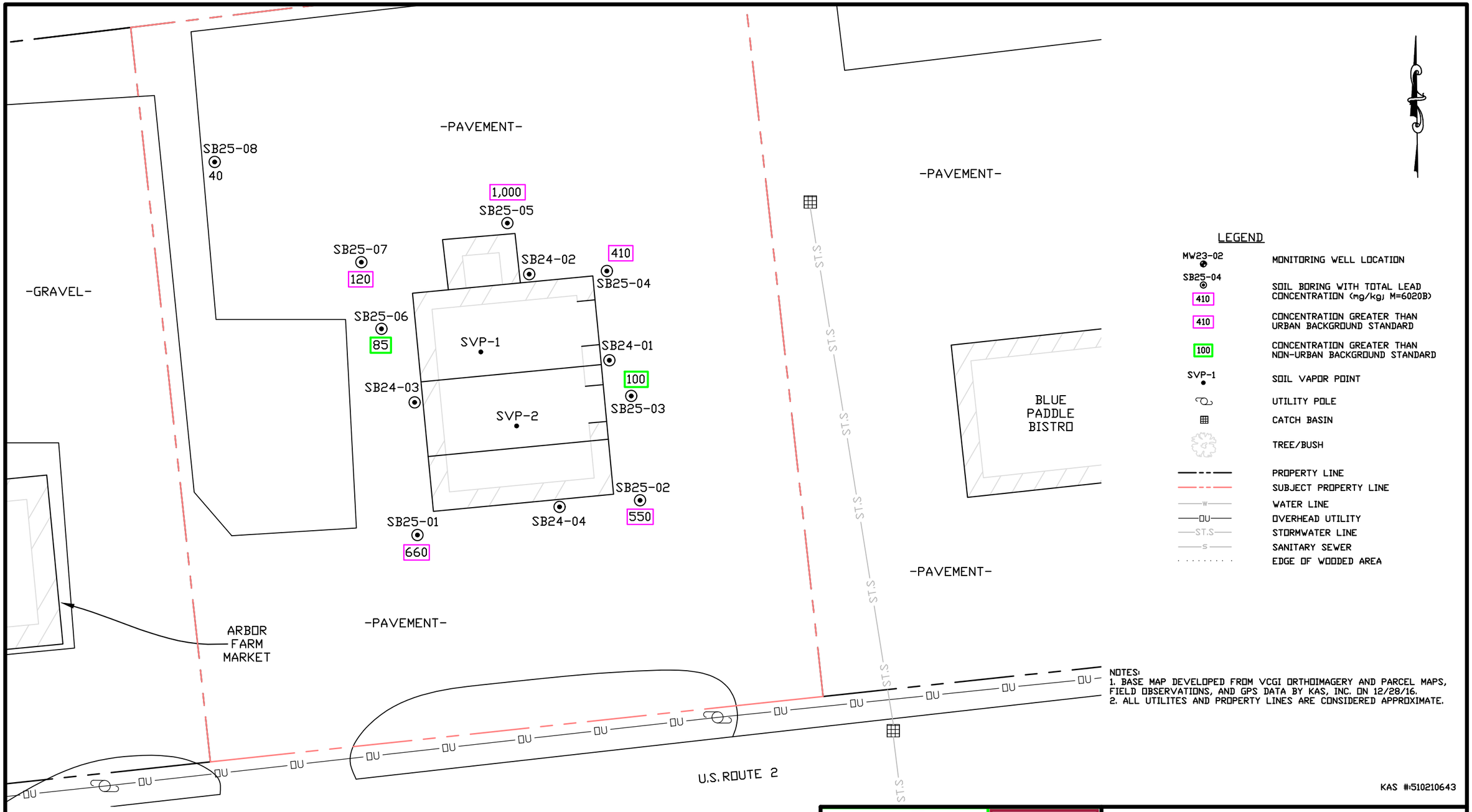
GRAPHIC SCALE
20' 0 10' 20' 40'
1 INCH = 20 FEET

589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495
www.kas-consulting.com
802 383.0486 p
802 383.0490 f
kas environmental science & engineering

OLD WHITE MEETING HOUSE
320 US ROUTE 2
SOUTH HERO, VERMONT

SITE MAP

DATE: 4/7/25	DWG. #: 1	SCALE: 1"=20'	DRN.: TT	APP.: JR

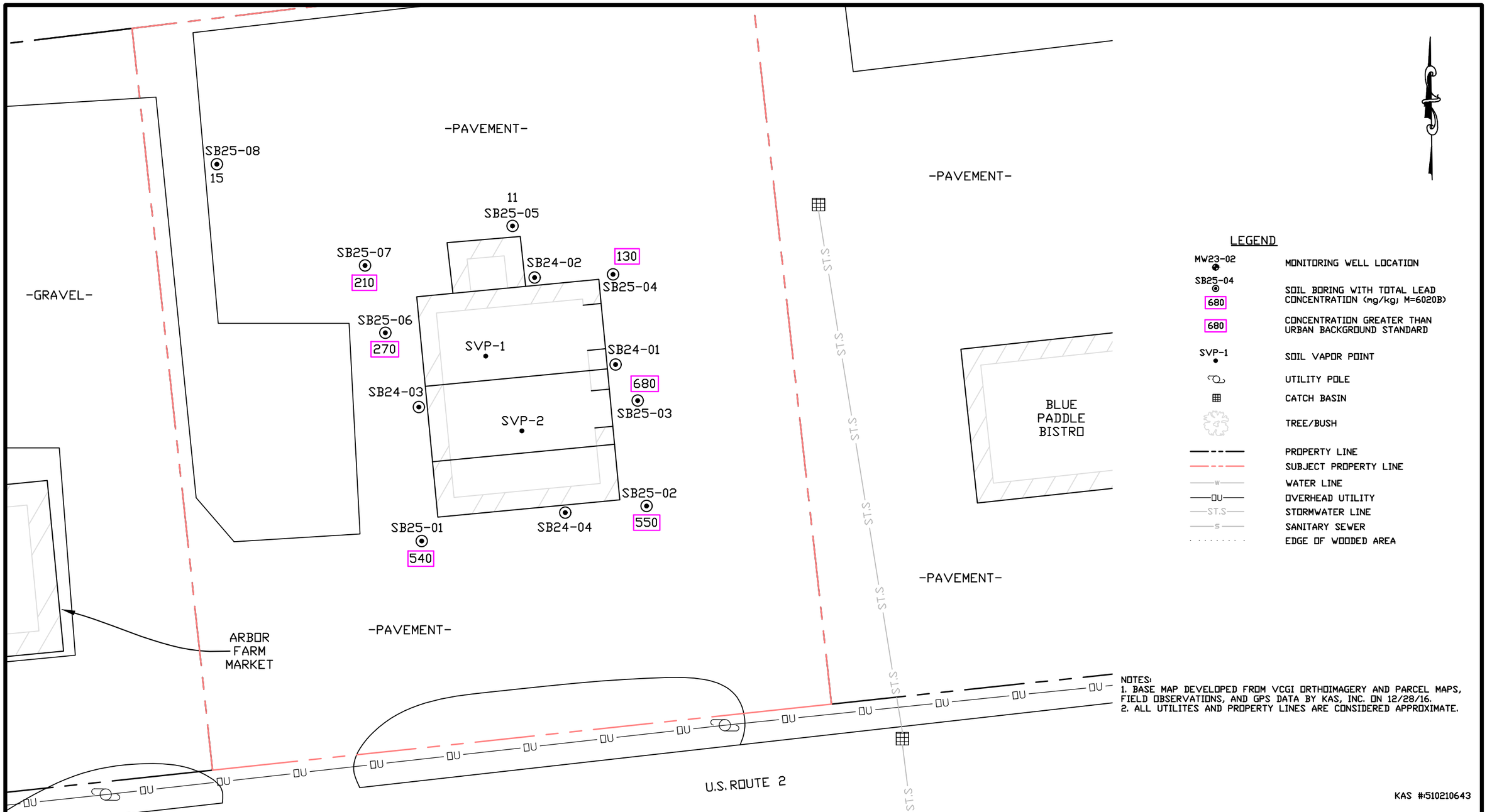


589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495
www.kas-consulting.com
802 383.0486 p
802 383.0490 f
kas
environmental science & engineering

OLD WHITE MEETING HOUSE
320 US ROUTE 2
SOUTH HERO, VERMONT

SOIL: TOTAL LEAD CONCENTRATION MAP (0-3")
SAMPLED: 2/17/2025

DATE: 4/4/25	DWG. #: 2	SCALE: 1"=20'	DRN.: TT	APP.: JR



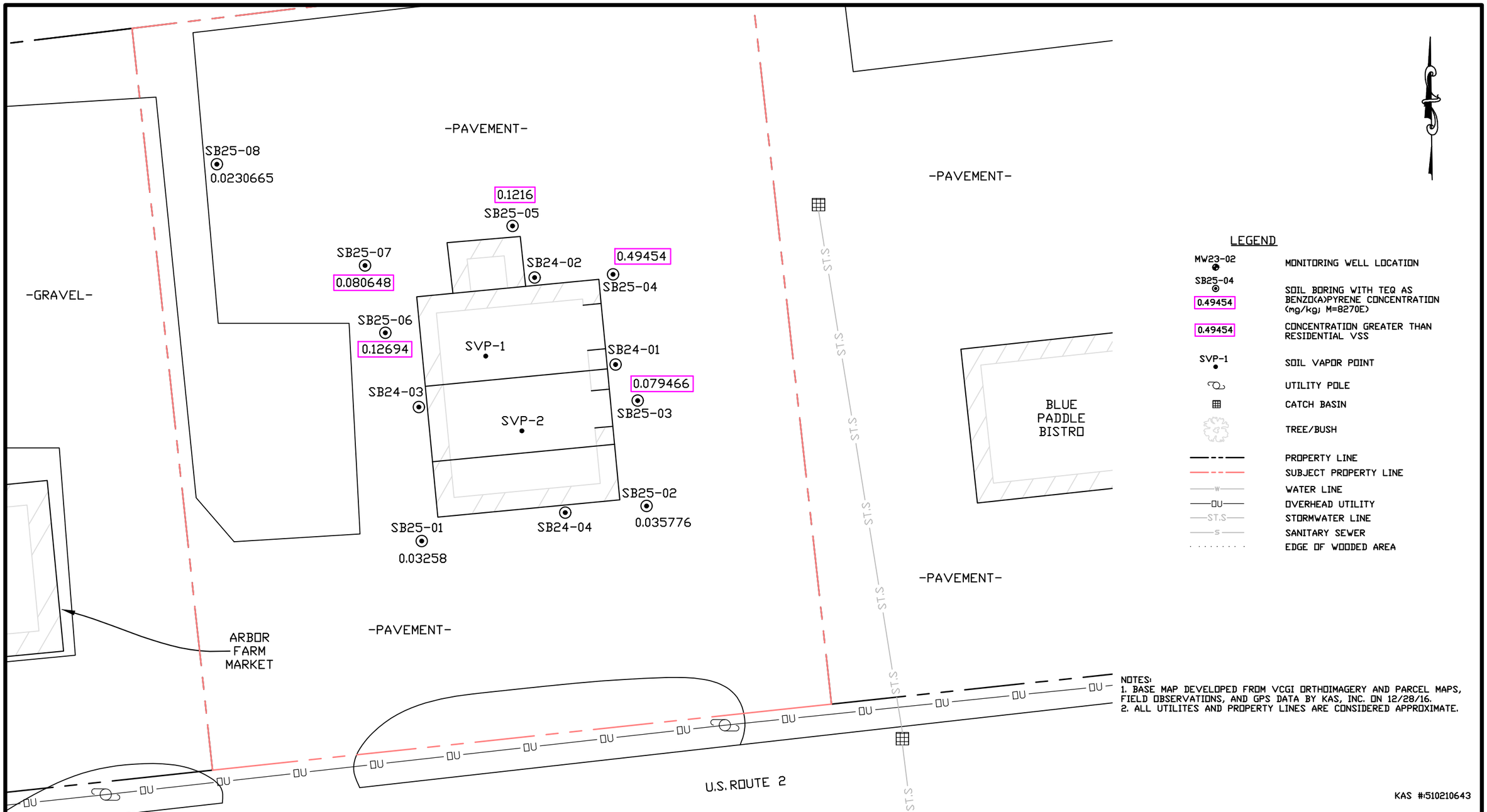
589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495
www.kas-consulting.com
802 383.0486 p
802 383.0490 f
kas
environmental science & engineering

OLD WHITE MEETING HOUSE
320 US ROUTE 2
SOUTH HERO, VERMONT

SOIL: TOTAL LEAD CONCENTRATION MAP (12-18")

SAMPLED: 2/17/2025

DATE: 4/4/25	DWG. #: 3	SCALE: 1"=20'	DRN.: TT	APP.: JR

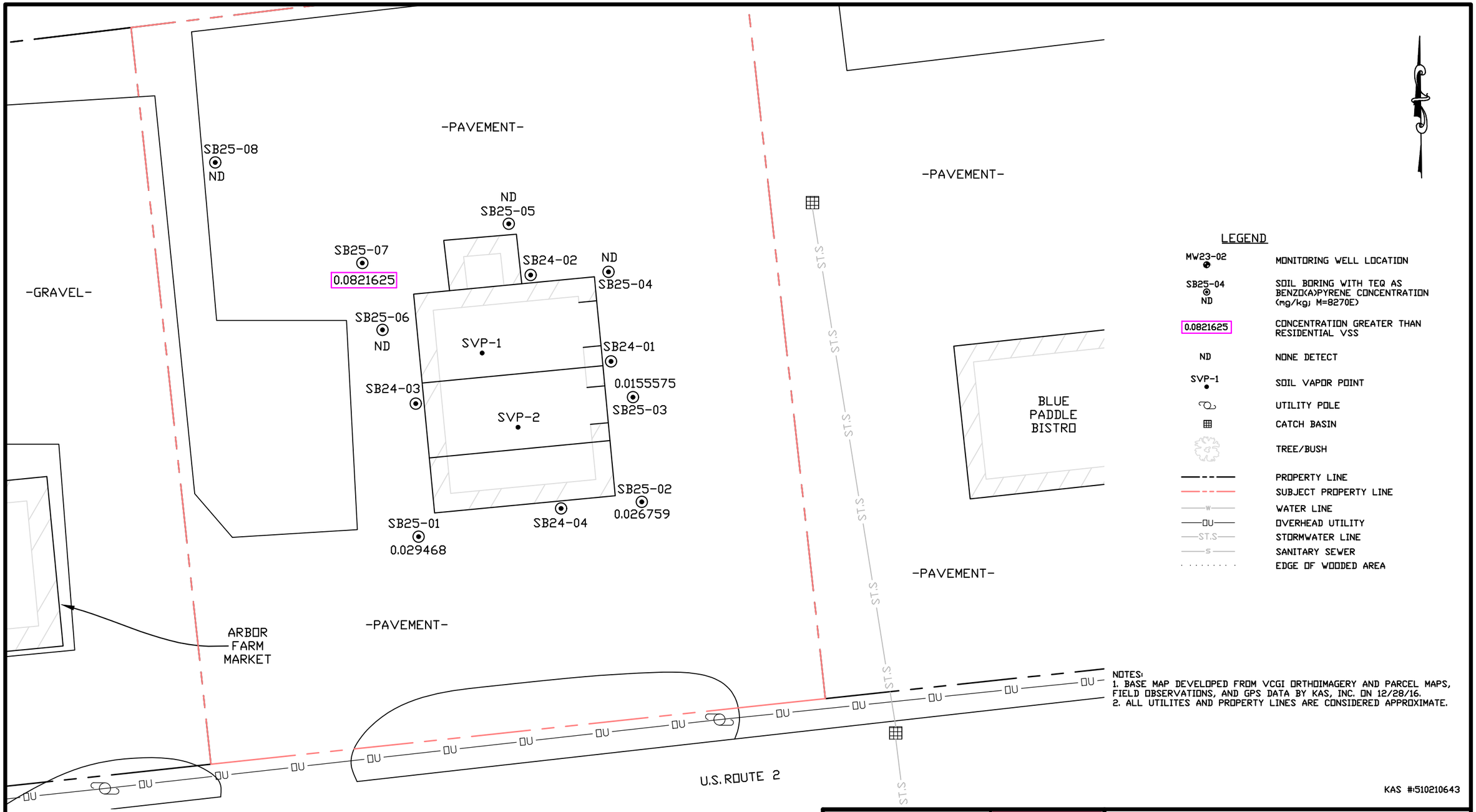


589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495
www.kas-consulting.com
802 383.0486 p
802 383.0490 f
kas
environmental science & engineering

OLD WHITE MEETING HOUSE
320 US ROUTE 2
SOUTH HERO, VERMONT

SOIL: PAHS AS TEQ BENZO(A)PYRENE CONCENTRATION MAP (0-3')
SAMPLED: 2/17/25

DATE: 4/4/25	DWG. #: 4	SCALE: 1"=20'	DRN.: TT	APP.: JR



589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495
www.kas-consulting.com
802 383.0486 p
802 383.0490 f
kas
environmental science & engineering

OLD WHITE MEETING HOUSE
320 US ROUTE 2
SOUTH HERO, VERMONT

SOIL: PAHS AS TEQ BENZO(A)PYRENE CONCENTRATION MAP (12-18")
SAMPLED: 2/17/25

DATE: 4/4/25	DWG. #: 5	SCALE: 1"=20'	DRN.: TT	APP.: JR

Appendix B

Photographic Documentation

Photographic Documentation
Site Investigation
Old White Meeting House
320 US-2, South Hero, Vermont
KAS #510210643

Photograph ID: 001	
Date: February 27, 2025	
Location: Site Property	
Direction: Facing northeast	
Comments: View of the western side of the Site building where soil borings SB25-01, SB25-06 and SB25-07 were advanced.	

Photograph ID: 002	
Date: February 27, 2025	
Location: Site Property	
Direction: Facing northerly	
Comments: View of the eastern side of the Site building where soil borings SB25-02, SB25-03 and SB25-04 were advanced.	

Photographic Documentation
Site Investigation
Old White Meeting House
320 US-2, South Hero, Vermont
KAS #510210643

Photograph ID: 003 Date: February 27, 2025 Location: Site Property Direction: Facing southerly Comments: View of the northern side of the Site building where soil boring SB25-05 was advanced.	
Photograph ID: 004 Date: February 27, 2025 Location: Site Property Direction: Facing westerly Comments: View of the northwestern portion of the Site where soil boring SB25-07 and SB25-08 were advanced.	

Appendix C

Soil Data Summary

Summary of Shallow Soil Analytical Data - Metals
Old White Meeting House
320 US-2
South Hero, Vermont 05486

Sample ID (depth):	**SB25-01 (0-3")**	**SB25-01 (12-18")**	**SB25-02 (0-3")**	**SB25-02 (12-18")**	**SB25-03 (0-3")**	**SB25-03 (12-18")**	**SB25-04 (0-3")**	**SB25-04 (12-18")**	**Vermont Soil Standards - Non Urban**	**Vermont Urban Background**
Sample Date:	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25		
PID Reading (ppmv):	0.1	0.4	0.2	0.4	0.3	0.2	0.3	0.3		
METALS (mg/kg)										
Arsenic	**4.1**	**4.2**	**2.8**	**3.8**	**2.2**	**3.7**	**4.1**	**3.3**	-	16
Lead	**660**	**540**	**550**	**830**	**100**	**680**	**410**	**130**	41	111

Sample ID (depth):	**SB25-05 (0-3")**	**SB25-05 (12-18")**	**SB25-06 (0-3")**	**SB25-06 (12-18")**	**SB25-07 (0-3")**	**SB25-07 (12-18")**	**SB25-08 (0-3")**	**SB25-08 (12-18")**	**Vermont Soil Standards - Non Urban**	**Vermont Urban Background**
Sample Date:	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25		
PID Reading (ppmv):	0.3	0.5	0.4	0.6	0.3	0.6	0.5	0.4		
METALS (mg/kg)										
Arsenic	**7.1**	**2.0**	**3.0**	**6.1**	**2.7**	**5.8**	**3.2**	**2.4**	16	16
Lead	**1000**	**11**	**85**	**270**	**120**	**210**	**40**	**15**	-	111

Sample ID (depth):	**SB24-01R (0-3")**	**SB24-03R (0-3")**	**SB24-04R (0-3")**	**Vermont Groundwater Enforcement Standard (VGES)**	**Preventative Action Level (PAL)**
Sample Date:	2/27/25	2/27/25	2/27/25		
PID Reading (ppmv):	0.2	0.2	0.1		
SPLP METALS (mg/L)					
Arsenic	<0.01	<0.01	<0.01	0.01	1.0
Lead	**0.98**	**0.91**	**0.43**	0.015	1.5

NOTES:
All values reported in mg/kg, dry, unless otherwise indicated.
Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule (I-Rule, February 23, 2024)
<xx = Compound not detected above detection limit (xx)
Results reported above detection limits are indicated in bold.
"-" indicates not analyzed or that a screening level is not provided in the I-Rule Table
* Total Equivalent Quotient (TEQ) obtained from EAI laboratory report. TEQ values were summed to obtain TEQ as benzo(a)pyrene. One-half of ND values were used in TEQ calculations per I-Rule.
=reported concentration above applicable regulatory standard (urban background)
=reported concentration above VT non-urban standard but below applicable urban background standard
=reported concentration above VGES

Summary of Shallow Soil Analytical Data - PAHs
Old White Meeting House
320 US-2
South Hero, Vermont 05486

Sample ID (depth):	**SB25-01 (0-3")**	**SB25-01 (12-18")**	**SB25-02 (0-3")**	**SB25-02 (12-18")**	**SB25-03 (0-3")**	**SB25-03 (12-18")**	**SB25-04 (0-3")**	**SB25-04 (12-18")**	Vermont Soil Standards - Resident	Vermont Urban Background
Sample Date:	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25		
PID Reading (ppmv):	0.1	0.4	0.2	0.4	0.3	0.2	0.3	0.3		
PAHs (mg/kg)										
1-Methylnaphthalene	<0.012	<0.0085	<0.012	<0.0085	<0.038	<0.0083	<0.050	<0.0092	-	-
2-Methylnaphthalene	<0.012	<0.0085	<0.012	<0.0085	<0.038	<0.0083	<0.050	<0.0092	-	-
Acenaphthene	<0.012	<0.0085	<0.012	<0.0085	<0.038	<0.0083	<0.050	<0.0092	-	-
Acenaphthylene	<0.012	<0.0085	<0.012	<0.0085	<0.038	<0.0083	<0.050	<0.0092	-	-
Anthracene	<0.012	<0.0085	<0.012	<0.0085	<0.038	<0.0083	**0.071**	<0.0092	-	-
Benzo[a]anthracene	**0.020**	**0.018**	**0.025**	**0.017**	<0.038	**0.0094**	**0.37**	<0.0092	-	-
Benzo[a]pyrene	**0.020**	**0.019**	**0.022**	**0.017**	**0.051**	**0.0086**	**0.36**	<0.0092	0.07	-
Benzo[b]fluoranthene	**0.029**	**0.028**	**0.031**	**0.024**	**0.054**	**0.014**	**0.56**	<0.0092	-	-
Benzo[g,h,i]perylene	**0.018**	**0.016**	**0.021**	**0.014**	**0.043**	<0.0083	**0.11**	<0.0092	-	-
Benzo[k]fluoranthene	<0.012	**0.0097**	**0.015**	**0.0089**	<0.038	<0.0083	**0.21**	<0.0092		-
Chrysene	**0.020**	**0.021**	**0.026**	**0.020**	**0.076**	**0.011**	**0.440**	<0.0092	-	-
Dibenz[a,h]anthracene	<0.012	<0.0085	<0.012	<0.0085	<0.038	<0.0083	<0.050	<0.0092	-	-
Fluoranthene	**0.031**	**0.031**	**0.051**	**0.035**	<0.038	**0.010**	**1.0**	<0.0092	2,301	-
Fluorene	<0.012	<0.0085	<0.012	<0.0085	<0.038	<0.0083	<0.050	<0.0092	2,301	-
Indeno[1,2,3-cd]pyrene	**0.016**	**0.015**	**0.020**	**0.013**	<0.038	<0.0083	**0.14**	<0.0092	-	-
Naphthalene	<0.012	<0.0085	<0.012	<0.0085	<0.038	<0.0083	<0.050	<0.0092	2.7	-
Phenanthrene	<0.012	**0.0097**	**0.024**	**0.015**	<0.038	<0.0083	**0.55**	<0.0092	-	-
Pyrene	**0.027**	**0.028**	**0.040**	**0.029**	<0.038	**0.0094**	**0.67**	<0.0092	-	-
TEQ as Benzo(a)pyrene*	**0.03258**	**0.029468**	**0.035776**	**0.026759**	**0.079466**	**0.0155575**	**0.49454**	ND	0.07	0.58

Sample ID (depth):	**SB25-05 (0-3")**	**SB25-05 (12-18")**	**SB25-06 (0-3")**	**SB25-06 (12-18")**	**SB25-07 (0-3")**	**SB25-07 (12-18")**	**SB25-08 (0-3")**	**SB25-08 (12-18")**	Vermont Soil Standards - Resident	Vermont Urban Background
Sample Date:	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25	2/27/25		
PID Reading (ppmv):	0.3	0.5	0.4	0.6	0.3	0.6	0.5	0.4		
PAHs (mg/kg)										
1-Methylnaphthalene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
2-Methylnaphthalene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
Acenaphthene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
Acenaphthylene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
Anthracene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
Benzo[a]anthracene	**0.054**	<0.0076	<0.046	<0.043	**0.043**	**0.047**	**0.013**	<0.037	-	-
Benzo[a]pyrene	**0.083**	<0.0076	**0.088**	<0.043	**0.047**	**0.047**	**0.014**	<0.037	0.07	-
Benzo[b]fluoranthene	**0.12**	<0.0076	**0.11**	<0.043	**0.067**	**0.073**	**0.027**	<0.037	-	-
Benzo[g,h,i]perylene	**0.065**	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
Benzo[k]fluoranthene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037		-
Chrysene	**0.11**	<0.0076	**0.11**	<0.043	**0.043**	<0.045	**0.016**	<0.037	-	-
Dibenz[a,h]anthracene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
Fluoranthene	**0.094**	<0.0076	<0.046	<0.043	**0.059**	**0.082**	**0.025**	<0.037	2,301	-
Fluorene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	2,301	-
Indeno[1,2,3-cd]pyrene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
Naphthalene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	2.7	-
Phenanthrene	<0.038	<0.0076	<0.046	<0.043	<0.041	<0.045	<0.0091	<0.037	-	-
Pyrene	**0.097**	<0.0076	**0.071**	<0.043	**0.051**	**0.069**	**0.019**	<0.037	-	-
TEQ as Benzo(a)pyrene*	**0.1216**	ND	**0.12694**	ND	**0.080648**	**0.0821625**	**0.0230665**	ND	0.07	0.58

NOTES:
All values reported in mg/kg, dry, unless otherwise indicated.
Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule (I-Rule, February 23, 2024)
<xx = Compound not detected above detection limit (xx)
Results reported above detection limits are indicated in bold.
"-" indicates not analyzed or that a screening level is not provided in the I-Rule Table
* Total Equivalent Quotient (TEQ) obtained from EAI laboratory report. TEQ values were summed to obtain TEQ as benzo(a)pyrene. One-half of ND values were used in TEQ calculations per I-Rule.
=reported concentration above applicable regulatory standard (urban background)
=reported concentration above VT residential standard but below applicable urban background standard

Summary of Shallow Soil Analytical Data - QAQC
Old White Meeting House
320 US-2
South Hero, Vermont 05486

Sample ID (depth in feet):	SB24-04R (0-3")	Dup-1	RPD (%)	SB25-01 (12-18")	Dup-2	RPD (%)
Sample Date:	02/27/25	02/27/25		02/27/25	02/27/25	
PAHs (mg/kg)						
1-Methylnaphthalene	PAHs not analyzed for this dupliate sample		N/A	<0.0085	<0.0086	N/A
2-Methylnaphthalene			N/A	<0.0085	<0.0086	N/A
Acenaphthene			N/A	<0.0085	<0.0086	N/A
Acenaphthylene			N/A	<0.0085	<0.0086	N/A
Anthracene			N/A	<0.0085	<0.0086	N/A
Benzo[a]anthracene			N/A	**0.018**	**0.020**	-10.5
Benzo[a]pyrene			N/A	**0.019**	**0.020**	-5.1
Benzo[b]fluoranthene			N/A	**0.028**	**0.035**	-22.2
Benzo[g,h,i]perylene			N/A	**0.016**	**0.012**	28.6
Benzo[k]fluoranthene			N/A	**0.0097**	<0.0086	N/A
Chrysene			N/A	**0.021**	**0.025**	-17.4
Dibenz[a,h]anthracene			N/A	<0.0085	<0.0086	N/A
Fluorene			N/A	<0.0085	<0.0086	N/A
Flouranthene			N/A	**0.031**	**0.038**	-20.3
Indeno[1,2,3-cd]pyrene			N/A	**0.015**	<0.0086	N/A
Naphthalene			N/A	<0.0085	<0.0086	N/A
Phenanthrene			N/A	**0.0097**	**0.0120**	-21.2
Pyrene			N/A	**0.028**	**0.033**	-16.4
TEQ as Benzo(a)pyrene*			N/A	**0.029468**	**0.025525**	14.3
METALS (mg/kg)						
Total Arsenic	NA	NA	N/A	**4.2**	**3.7**	12.7
Total Lead	NA	NA	N/A	**540**	**470**	13.9
SPLP METALS (mg/L)						
Total Arsenic	<0.01	<0.01	N/A	NA	NA	N/A
Total Lead	**0.43**	**0.47**	-8.9	NA	NA	N/A

NOTES:
All values reported in mg/kg, dry, unless otherwise indicated.
<xx = Compound not detected above detection limit (xx)
Results reported above detection limits are indicated in bold
* Sum of Toxicity Equivalent Quotients (TEQs) provided in laboratory report.
Toxicity Equivalent Factors (TEFs) used by laboratory are consistent with those provided in I-Rule (February 23, 2024).
RPD - Relative Percent Difference

Appendix D

Analytical Laboratory Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jeremy Roberts
KAS Inc
589 Avenue D
Suite 10
Williston, Vermont 05495

Generated 3/27/2025 3:13:14 PM Revision 1

JOB DESCRIPTION

Old White Meeting House | 510210643

JOB NUMBER

475-202-1

Eurofins Northeast Concord
51 Antrim Avenue
Concord NH 03301

See page two for job notes and contact information.

Eurofins Northeast Concord

Job Notes

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 Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
3/27/2025 3:13:14 PM
Revision 1

Authorized for release by
Lorraine Olashaw, Lab Director
Lorraine.Olashaw@et.eurofinsus.com
Designee for
Ashley Breen, Project Manager
Ashley.Breen@et.eurofinsus.com
(603)228-0525

Job ID: 475-202-1 — Eurofins Northeast Concord

Job Narrative
475-202-1

REVISION

The report being provided is a revision of the original report sent on 3/25/2025. The report (revision 1) is being revised due to Add TEQ limits to final report..

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 2/28/2025 2:00 PM. 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 3.6°C.

GC/MS Semi VOA
Method 8270E_LL: Due to the matrix, the following samples could not be concentrated to the final method required volume: SB25-03 (0-3) (475-202-5), SB25-04 (0-3) (475-202-7), SB25-05 (0-3) (475-202-9), SB25-06 (0-3) (475-202-11), SB25-06 (12-18) (475-202-12), SB25-07 (0-3) (475-202-13), SB25-07 (12-18) (475-202-14) and SB25-08 (12-18) (475-202-16). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: KAS Inc
Job ID: 475-202-1
Project/Site: Old White Meeting House | 510210643

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
475-202-1	SB25-01 (0-3)	Solid	02/27/25 14:30	02/28/25 14:00
475-202-2	SB25-01 (12-18)	Solid	02/27/25 14:36	02/28/25 14:00
475-202-3	SB25-02 (0-3)	Solid	02/27/25 14:48	02/28/25 14:00
475-202-4	SB25-02 (12-18)	Solid	02/27/25 14:56	02/28/25 14:00
475-202-5	SB25-03 (0-3)	Solid	02/27/25 13:03	02/28/25 14:00
475-202-6	SB25-03 (12-18)	Solid	02/27/25 13:06	02/28/25 14:00
475-202-7	SB25-04 (0-3)	Solid	02/27/25 13:15	02/28/25 14:00
475-202-8	SB25-04 (12-18)	Solid	02/27/25 13:18	02/28/25 14:00
475-202-9	SB25-05 (0-3)	Solid	02/27/25 13:27	02/28/25 14:00
475-202-10	SB25-05 (12-18)	Solid	02/27/25 13:30	02/28/25 14:00
475-202-11	SB25-06 (0-3)	Solid	02/27/25 14:12	02/28/25 14:00
475-202-12	SB25-06 (12-18)	Solid	02/27/25 14:16	02/28/25 14:00
475-202-13	SB25-07 (0-3)	Solid	02/27/25 13:51	02/28/25 14:00
475-202-14	SB25-07 (12-18)	Solid	02/27/25 14:00	02/28/25 14:00
475-202-15	SB25-08 (0-3)	Solid	02/27/25 13:38	02/28/25 14:00
475-202-16	SB25-08 (12-18)	Solid	02/27/25 13:41	02/28/25 14:00
475-202-17	SB24-01R	Solid	02/27/25 12:54	02/28/25 14:00
475-202-18	SB24-03R	Solid	02/27/25 14:22	02/28/25 14:00
475-202-19	SB24-04R	Solid	02/27/25 14:46	02/28/25 14:00
475-202-20	Dup-1	Solid	02/27/25 14:46	02/28/25 14:00
475-202-21	Dup-2	Solid	02/27/25 14:36	02/28/25 14:00

Client Sample ID: SB25-01 (0-3)
Lab Sample ID: 475-202-1

Date Collected: 02/27/25 14:30
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 58.9

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
2-Methylnaphthalene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Acenaphthene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Acenaphthylene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Anthracene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Benzo[a]anthracene	**0.020**		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Benzo[a]pyrene	**0.020**		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Benzo[b]fluoranthene	**0.029**		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Benzo[k]fluoranthene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Benzo[g,h,i]perylene	**0.018**		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Chrysene	**0.020**		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Dibenz[a,h]anthracene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Fluorene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Fluoranthene	**0.031**		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Indeno[1,2,3-cd]pyrene	**0.016**		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Naphthalene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Phenanthrene	<0.012		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR
Pyrene	**0.027**		0.012		mg/Kg	☼	03/04/25 16:07	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*52*		*30 - 130*	*03/04/25 16:07*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**4.1**		0.50		mg/Kg	☼	03/06/25 18:47	25	DS
Lead	**660**		0.50		mg/Kg	☼	03/06/25 18:47	25	DS

Client Sample ID: SB25-01 (12-18)
Lab Sample ID: 475-202-2

Date Collected: 02/27/25 14:36
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 81.3

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.0085		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
2-Methylnaphthalene	<0.0085		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Acenaphthene	<0.0085		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Acenaphthylene	<0.0085		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Anthracene	<0.0085		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Benzo[a]anthracene	**0.018**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Benzo[a]pyrene	**0.019**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Benzo[b]fluoranthene	**0.028**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Benzo[k]fluoranthene	**0.0097**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Benzo[g,h,i]perylene	**0.016**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Chrysene	**0.021**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Dibenz[a,h]anthracene	<0.0085		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Fluorene	<0.0085		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Fluoranthene	**0.031**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Indeno[1,2,3-cd]pyrene	**0.015**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Naphthalene	<0.0085		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR
Phenanthrene	**0.0097**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR

Client Sample ID: SB25-01 (12-18)
Lab Sample ID: 475-202-2
Date Collected: 02/27/25 14:36
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 81.3

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Pyrene	**0.028**		0.0085		mg/Kg	☼	03/04/25 16:30	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*58*		*30 - 130*	*03/04/25 16:30*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**4.2**		0.50		mg/Kg	☼	03/06/25 18:52	25	DS
Lead	**540**		0.50		mg/Kg	☼	03/06/25 18:52	25	DS

Client Sample ID: SB25-02 (0-3)
Lab Sample ID: 475-202-3
Date Collected: 02/27/25 14:48
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 56.5

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.012		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
2-Methylnaphthalene	<0.012		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Acenaphthene	<0.012		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Acenaphthylene	<0.012		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Anthracene	<0.012		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Benzo[a]anthracene	**0.025**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Benzo[a]pyrene	**0.022**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Benzo[b]fluoranthene	**0.031**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Benzo[k]fluoranthene	**0.015**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Benzo[g,h,i]perylene	**0.021**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Chrysene	**0.026**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Dibenz[a,h]anthracene	<0.012		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Fluorene	<0.012		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Fluoranthene	**0.051**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Indeno[1,2,3-cd]pyrene	**0.020**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Naphthalene	<0.012		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Phenanthrene	**0.024**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR
Pyrene	**0.040**		0.012		mg/Kg	☼	03/04/25 16:52	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*51*		*30 - 130*	*03/04/25 16:52*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**2.8**		0.50		mg/Kg	☼	03/06/25 18:57	25	DS
Lead	**550**		0.50		mg/Kg	☼	03/06/25 18:57	25	DS

Client Sample ID: SB25-02 (12-18)
Lab Sample ID: 475-202-4
Date Collected: 02/27/25 14:56
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 80.8

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.0085		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
2-Methylnaphthalene	<0.0085		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR

Client Sample ID: SB25-02 (12-18)
Lab Sample ID: 475-202-4

Date Collected: 02/27/25 14:56
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 80.8

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	<0.0085		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Acenaphthylene	<0.0085		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Anthracene	<0.0085		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Benzo[a]anthracene	**0.017**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Benzo[a]pyrene	**0.017**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Benzo[b]fluoranthene	**0.024**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Benzo[k]fluoranthene	**0.0089**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Benzo[g,h,i]perylene	**0.014**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Chrysene	**0.020**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Dibenz[a,h]anthracene	<0.0085		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Fluorene	<0.0085		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Fluoranthene	**0.035**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Indeno[1,2,3-cd]pyrene	**0.013**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Naphthalene	<0.0085		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Phenanthrene	**0.015**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR
Pyrene	**0.029**		0.0085		mg/Kg	☼	03/04/25 17:15	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*59*		*30 - 130*	*03/04/25 17:15*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**3.8**		0.50		mg/Kg	☼	03/06/25 19:02	25	DS
Lead	**830**		0.50		mg/Kg	☼	03/06/25 19:02	25	DS

Client Sample ID: SB25-03 (0-3)
Lab Sample ID: 475-202-5

Date Collected: 02/27/25 13:03
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 90.5

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
2-Methylnaphthalene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Acenaphthene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Acenaphthylene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Anthracene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Benzo[a]anthracene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Benzo[a]pyrene	**0.051**		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Benzo[b]fluoranthene	**0.054**		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Benzo[k]fluoranthene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Benzo[g,h,i]perylene	**0.043**		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Chrysene	**0.076**		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Dibenz[a,h]anthracene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Fluorene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Fluoranthene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Indeno[1,2,3-cd]pyrene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Naphthalene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Phenanthrene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR
Pyrene	<0.038		0.038		mg/Kg	☼	03/04/25 17:37	1	JMR

Client Sample ID: SB25-03 (0-3)
Lab Sample ID: 475-202-5
Date Collected: 02/27/25 13:03
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 90.5

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
p-Terphenyl-d14 (Surr)	*70*		*30 - 130*	*03/04/25 17:37*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**2.2**		0.50		mg/Kg	☼	03/06/25 19:07	25	DS
Lead	**100**		0.50		mg/Kg	☼	03/06/25 19:07	25	DS

Client Sample ID: SB25-03 (12-18)
Lab Sample ID: 475-202-6
Date Collected: 02/27/25 13:06
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 82.8

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
2-Methylnaphthalene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Acenaphthene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Acenaphthylene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Anthracene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Benzo[a]anthracene	**0.0094**		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Benzo[a]pyrene	**0.0086**		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Benzo[b]fluoranthene	**0.014**		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Benzo[k]fluoranthene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Benzo[g,h,i]perylene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Chrysene	**0.011**		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Dibenz[a,h]anthracene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Fluorene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Fluoranthene	**0.010**		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Indeno[1,2,3-cd]pyrene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Naphthalene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Phenanthrene	<0.0083		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR
Pyrene	**0.0094**		0.0083		mg/Kg	☼	03/04/25 18:00	1	JMR

Surrogate	%Recovery	Qualifier	Limits	Analyzed	Dil Fac	Analyst
p-Terphenyl-d14 (Surr)	*55*		*30 - 130*	*03/04/25 18:00*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**3.7**		0.50		mg/Kg	☼	03/06/25 19:27	25	DS
Lead	**680**		0.50		mg/Kg	☼	03/06/25 19:27	25	DS

Client Sample ID: SB25-04 (0-3)
Lab Sample ID: 475-202-7
Date Collected: 02/27/25 13:15
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 69.0

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.050		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
2-Methylnaphthalene	<0.050		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Acenaphthene	<0.050		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Acenaphthylene	<0.050		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Anthracene	**0.071**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Benzo[a]anthracene	**0.37**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR

Client Sample ID: SB25-04 (0-3)
Lab Sample ID: 475-202-7

Date Collected: 02/27/25 13:15
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 69.0

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Benzo[a]pyrene	**0.36**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Benzo[b]fluoranthene	**0.56**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Benzo[k]fluoranthene	**0.21**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Benzo[g,h,i]perylene	**0.11**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Chrysene	**0.44**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Dibenz[a,h]anthracene	<0.050		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Fluorene	<0.050		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Fluoranthene	**1.0**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Indeno[1,2,3-cd]pyrene	**0.14**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Naphthalene	<0.050		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Phenanthrene	**0.55**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR
Pyrene	**0.67**		0.050		mg/Kg	☼	03/04/25 18:23	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*63*		*30 - 130*	*03/04/25 18:23*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**4.1**		0.50		mg/Kg	☼	03/06/25 19:32	25	DS
Lead	**410**		0.50		mg/Kg	☼	03/06/25 19:32	25	DS

Client Sample ID: SB25-04 (12-18)
Lab Sample ID: 475-202-8

Date Collected: 02/27/25 13:18
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 75.7

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
2-Methylnaphthalene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Acenaphthene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Acenaphthylene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Anthracene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Benzo[a]anthracene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Benzo[a]pyrene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Benzo[b]fluoranthene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Benzo[k]fluoranthene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Benzo[g,h,i]perylene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Chrysene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Dibenz[a,h]anthracene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Fluorene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Fluoranthene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Indeno[1,2,3-cd]pyrene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Naphthalene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Phenanthrene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR
Pyrene	<0.0092		0.0092		mg/Kg	☼	03/04/25 18:45	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*53*		*30 - 130*	*03/04/25 18:45*	*1*	*JMR*

Client Sample ID: SB25-04 (12-18)
Lab Sample ID: 475-202-8
Date Collected: 02/27/25 13:18
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 75.7

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**3.3**		0.50		mg/Kg	☼	03/06/25 19:37	25	DS
Lead	**130**		0.50		mg/Kg	☼	03/06/25 19:37	25	DS

Client Sample ID: SB25-05 (0-3)
Lab Sample ID: 475-202-9
Date Collected: 02/27/25 13:27
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 89.8

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
2-Methylnaphthalene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Acenaphthene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Acenaphthylene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Anthracene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Benzo[a]anthracene	**0.054**		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Benzo[a]pyrene	**0.083**		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Benzo[b]fluoranthene	**0.12**		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Benzo[k]fluoranthene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Benzo[g,h,i]perylene	**0.065**		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Chrysene	**0.11**		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Dibenz[a,h]anthracene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Fluorene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Fluoranthene	**0.094**		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Indeno[1,2,3-cd]pyrene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Naphthalene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Phenanthrene	<0.038		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR
Pyrene	**0.097**		0.038		mg/Kg	☼	03/04/25 19:08	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*78*		*30 - 130*	*03/04/25 19:08*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**7.1**		0.50		mg/Kg	☼	03/06/25 19:43	25	DS
Lead	**1000**		0.50		mg/Kg	☼	03/06/25 19:43	25	DS

Client Sample ID: SB25-05 (12-18)
Lab Sample ID: 475-202-10
Date Collected: 02/27/25 13:30
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 90.6

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
2-Methylnaphthalene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Acenaphthene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Acenaphthylene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Anthracene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Benzo[a]anthracene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Benzo[a]pyrene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Benzo[b]fluoranthene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Benzo[k]fluoranthene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR

Client Sample ID: SB25-05 (12-18)
Lab Sample ID: 475-202-10

Date Collected: 02/27/25 13:30
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 90.6

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Benzo[g,h,i]perylene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Chrysene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Dibenz[a,h]anthracene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Fluorene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Fluoranthene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Indeno[1,2,3-cd]pyrene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Naphthalene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Phenanthrene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR
Pyrene	<0.0076		0.0076		mg/Kg	☼	03/04/25 19:30	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*48*		*30 - 130*	*03/04/25 19:30*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**2.0**		0.50		mg/Kg	☼	03/06/25 19:48	25	DS
Lead	**11**		0.50		mg/Kg	☼	03/06/25 19:48	25	DS

Client Sample ID: SB25-06 (0-3)
Lab Sample ID: 475-202-11

Date Collected: 02/27/25 14:12
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 73.6

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
2-Methylnaphthalene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Acenaphthene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Acenaphthylene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Anthracene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Benzo[a]anthracene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Benzo[a]pyrene	**0.088**		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Benzo[b]fluoranthene	**0.11**		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Benzo[k]fluoranthene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Benzo[g,h,i]perylene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Chrysene	**0.11**		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Dibenz[a,h]anthracene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Fluorene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Fluoranthene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Indeno[1,2,3-cd]pyrene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Naphthalene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Phenanthrene	<0.046		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR
Pyrene	**0.071**		0.046		mg/Kg	☼	03/04/25 19:53	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*66*		*30 - 130*	*03/04/25 19:53*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**3.0**		0.50		mg/Kg	☼	03/06/25 20:18	25	DS
Lead	**85**		0.50		mg/Kg	☼	03/06/25 20:18	25	DS

Client: KAS Inc
Job ID: 475-202-1
Project/Site: Old White Meeting House | 510210643

Client Sample ID: SB25-06 (12-18)
Lab Sample ID: 475-202-12
Date Collected: 02/27/25 14:16
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 79.8

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
2-Methylnaphthalene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Acenaphthene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Acenaphthylene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Anthracene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Benzo[a]anthracene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Benzo[a]pyrene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Benzo[b]fluoranthene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Benzo[k]fluoranthene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Benzo[g,h,i]perylene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Chrysene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Dibenz[a,h]anthracene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Fluorene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Fluoranthene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Indeno[1,2,3-cd]pyrene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Naphthalene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Phenanthrene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR
Pyrene	<0.043		0.043		mg/Kg	☼	03/04/25 20:16	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*66*		*30 - 130*	*03/04/25 20:16*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**6.1**		0.50		mg/Kg	☼	03/06/25 20:23	25	DS
Lead	**270**		0.50		mg/Kg	☼	03/06/25 20:23	25	DS

Client Sample ID: SB25-07 (0-3)
Lab Sample ID: 475-202-13
Date Collected: 02/27/25 13:51
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 84.7

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
2-Methylnaphthalene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Acenaphthene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Acenaphthylene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Anthracene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Benzo[a]anthracene	**0.043**		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Benzo[a]pyrene	**0.047**		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Benzo[b]fluoranthene	**0.067**		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Benzo[k]fluoranthene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Benzo[g,h,i]perylene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Chrysene	**0.043**		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Dibenz[a,h]anthracene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Fluorene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Fluoranthene	**0.059**		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Indeno[1,2,3-cd]pyrene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Naphthalene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR
Phenanthrene	<0.041		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR

Client Sample ID: SB25-07 (0-3)
Lab Sample ID: 475-202-13
Date Collected: 02/27/25 13:51
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 84.7

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Pyrene	**0.051**		0.041		mg/Kg	☼	03/04/25 20:38	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*72*		*30 - 130*	*03/04/25 20:38*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**2.7**		0.50		mg/Kg	☼	03/06/25 20:28	25	DS
Lead	**120**		0.50		mg/Kg	☼	03/06/25 20:28	25	DS

Client Sample ID: SB25-07 (12-18)
Lab Sample ID: 475-202-14
Date Collected: 02/27/25 14:00
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 76.5

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
2-Methylnaphthalene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Acenaphthene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Acenaphthylene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Anthracene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Benzo[a]anthracene	**0.047**		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Benzo[a]pyrene	**0.047**		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Benzo[b]fluoranthene	**0.073**		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Benzo[k]fluoranthene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Benzo[g,h,i]perylene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Chrysene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Dibenz[a,h]anthracene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Fluorene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Fluoranthene	**0.082**		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Indeno[1,2,3-cd]pyrene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Naphthalene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Phenanthrene	<0.045		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR
Pyrene	**0.069**		0.045		mg/Kg	☼	03/04/25 21:01	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*58*		*30 - 130*	*03/04/25 21:01*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**5.8**		0.50		mg/Kg	☼	03/06/25 20:33	25	DS
Lead	**210**		0.50		mg/Kg	☼	03/06/25 20:33	25	DS

Client Sample ID: SB25-08 (0-3)
Lab Sample ID: 475-202-15
Date Collected: 02/27/25 13:38
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 76.3

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
2-Methylnaphthalene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR

Client Sample ID: SB25-08 (0-3)
Lab Sample ID: 475-202-15

Date Collected: 02/27/25 13:38
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 76.3

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Acenaphthene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Acenaphthylene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Anthracene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Benzo[a]anthracene	**0.013**		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Benzo[a]pyrene	**0.014**		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Benzo[b]fluoranthene	**0.027**		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Benzo[k]fluoranthene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Benzo[g,h,i]perylene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Chrysene	**0.016**		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Dibenz[a,h]anthracene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Fluorene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Fluoranthene	**0.025**		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Indeno[1,2,3-cd]pyrene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Naphthalene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Phenanthrene	<0.0091		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR
Pyrene	**0.019**		0.0091		mg/Kg	☼	03/04/25 21:24	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*41*		*30 - 130*	*03/04/25 21:24*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**3.2**		0.50		mg/Kg	☼	03/06/25 20:38	25	DS
Lead	**40**		0.50		mg/Kg	☼	03/06/25 20:38	25	DS

Client Sample ID: SB25-08 (12-18)
Lab Sample ID: 475-202-16

Date Collected: 02/27/25 13:41
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 91.7

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
2-Methylnaphthalene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Acenaphthene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Acenaphthylene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Anthracene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Benzo[a]anthracene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Benzo[a]pyrene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Benzo[b]fluoranthene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Benzo[k]fluoranthene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Benzo[g,h,i]perylene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Chrysene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Dibenz[a,h]anthracene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Fluorene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Fluoranthene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Indeno[1,2,3-cd]pyrene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Naphthalene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Phenanthrene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR
Pyrene	<0.037		0.037		mg/Kg	☼	03/04/25 21:46	1	JMR

Client Sample ID: SB25-08 (12-18)
Lab Sample ID: 475-202-16
Date Collected: 02/27/25 13:41
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 91.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*54*		*30 - 130*	*03/04/25 21:46*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**2.4**		0.50		mg/Kg	☼	03/06/25 20:59	25	DS
Lead	**15**		0.50		mg/Kg	☼	03/06/25 20:59	25	DS

Client Sample ID: SB24-01R
Lab Sample ID: 475-202-17
Date Collected: 02/27/25 12:54
Matrix: Solid
Date Received: 02/28/25 14:00

Method: 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.010		0.010		mg/L		03/06/25 21:45	10	DS
Lead	**0.98**		0.010		mg/L		03/06/25 21:45	10	DS

Client Sample ID: SB24-03R
Lab Sample ID: 475-202-18
Date Collected: 02/27/25 14:22
Matrix: Solid
Date Received: 02/28/25 14:00

Method: 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.010		0.010		mg/L		03/06/25 21:50	10	DS
Lead	**0.91**		0.010		mg/L		03/06/25 21:50	10	DS

Client Sample ID: SB24-04R
Lab Sample ID: 475-202-19
Date Collected: 02/27/25 14:46
Matrix: Solid
Date Received: 02/28/25 14:00

Method: 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.010		0.010		mg/L		03/06/25 21:55	10	DS
Lead	**0.43**		0.010		mg/L		03/06/25 21:55	10	DS

Client Sample ID: Dup-1
Lab Sample ID: 475-202-20
Date Collected: 02/27/25 14:46
Matrix: Solid
Date Received: 02/28/25 14:00

Method: 6020B - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.010		0.010		mg/L		03/06/25 22:00	10	DS
Lead	**0.47**		0.010		mg/L		03/06/25 22:00	10	DS

Client Sample ID: Dup-2
Lab Sample ID: 475-202-21
Date Collected: 02/27/25 14:36
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 80.2

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
1-Methylnaphthalene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
2-Methylnaphthalene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Acenaphthene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Acenaphthylene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR

Client Sample ID: Dup-2
Lab Sample ID: 475-202-21
Date Collected: 02/27/25 14:36
Matrix: Solid
Date Received: 02/28/25 14:00
Percent Solids: 80.2

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Anthracene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Benzo[a]anthracene	**0.020**		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Benzo[a]pyrene	**0.020**		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Benzo[b]fluoranthene	**0.035**		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Benzo[k]fluoranthene	**0.012**		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Benzo[g,h,i]perylene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Chrysene	**0.025**		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Dibenz[a,h]anthracene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Fluorene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Fluoranthene	**0.038**		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Indeno[1,2,3-cd]pyrene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Naphthalene	<0.0086		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Phenanthrene	**0.012**		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR
Pyrene	**0.033**		0.0086		mg/Kg	☼	03/04/25 22:09	1	JMR

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
p-Terphenyl-d14 (Surr)	*40*		*30 - 130*	*03/04/25 22:09*	*1*	*JMR*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**3.7**		0.50		mg/Kg	☼	03/06/25 21:04	25	DS
Lead	**470**		0.50		mg/Kg	☼	03/06/25 21:04	25	DS

Toxicity Summary

Client: KAS Inc
Project/Site: Old White Meeting House | 510210643

Job ID: 475-202-1

Client Sample ID: SB25-01 (0-3) — Lab Sample ID: 475-202-1

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	**0.020**		0.012		mg/Kg	0.1	**0.0020**	8270E LL
Benzo[a]pyrene	**0.020**		0.012		mg/Kg	1	**0.020**	8270E LL
Benzo[b]fluoranthene	**0.029**		0.012		mg/Kg	0.1	**0.0029**	8270E LL
Benzo[k]fluoranthene	<0.012		0.012		mg/Kg	0.01	0.00	8270E LL
Chrysene	**0.020**		0.012		mg/Kg	0.001	**0.000020**	8270E LL
Dibenz[a,h]anthracene	<0.012		0.012		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	**0.016**		0.012		mg/Kg	0.1	**0.0016**	8270E LL

Client Sample ID: SB25-01 (12-18) — Lab Sample ID: 475-202-2

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	**0.018**		0.0085		mg/Kg	0.1	**0.0018**	8270E LL
Benzo[a]pyrene	**0.019**		0.0085		mg/Kg	1	**0.019**	8270E LL
Benzo[b]fluoranthene	**0.028**		0.0085		mg/Kg	0.1	**0.0028**	8270E LL
Benzo[k]fluoranthene	**0.0097**		0.0085		mg/Kg	0.01	**0.000097**	8270E LL
Chrysene	**0.021**		0.0085		mg/Kg	0.001	**0.000021**	8270E LL
Dibenz[a,h]anthracene	<0.0085		0.0085		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	**0.015**		0.0085		mg/Kg	0.1	**0.0015**	8270E LL

Client Sample ID: SB25-02 (0-3) — Lab Sample ID: 475-202-3

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	**0.025**		0.012		mg/Kg	0.1	**0.0025**	8270E LL
Benzo[a]pyrene	**0.022**		0.012		mg/Kg	1	**0.022**	8270E LL
Benzo[b]fluoranthene	**0.031**		0.012		mg/Kg	0.1	**0.0031**	8270E LL
Benzo[k]fluoranthene	**0.015**		0.012		mg/Kg	0.01	**0.00015**	8270E LL
Chrysene	**0.026**		0.012		mg/Kg	0.001	**0.000026**	8270E LL
Dibenz[a,h]anthracene	<0.012		0.012		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	**0.020**		0.012		mg/Kg	0.1	**0.0020**	8270E LL

Client Sample ID: SB25-02 (12-18) — Lab Sample ID: 475-202-4

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	**0.017**		0.0085		mg/Kg	0.1	**0.0017**	8270E LL
Benzo[a]pyrene	**0.017**		0.0085		mg/Kg	1	**0.017**	8270E LL
Benzo[b]fluoranthene	**0.024**		0.0085		mg/Kg	0.1	**0.0024**	8270E LL
Benzo[k]fluoranthene	**0.0089**		0.0085		mg/Kg	0.01	**0.000089**	8270E LL
Chrysene	**0.020**		0.0085		mg/Kg	0.001	**0.000020**	8270E LL
Dibenz[a,h]anthracene	<0.0085		0.0085		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	**0.013**		0.0085		mg/Kg	0.1	**0.0013**	8270E LL

TEF Reference:
VT TEF 13 = Vermont TEF 8270 November 2013, CA OEHHA 2015

Toxicity Summary

Client: KAS Inc
Project/Site: Old White Meeting House | 510210643

Job ID: 475-202-1

Client Sample ID: SB25-03 (0-3) — Lab Sample ID: 475-202-5

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	<0.038		0.038		mg/Kg	0.1	0.00	8270E LL
Benzo[a]pyrene	**0.051**		0.038		mg/Kg	1	**0.051**	8270E LL
Benzo[b]fluoranthene	**0.054**		0.038		mg/Kg	0.1	**0.0054**	8270E LL
Benzo[k]fluoranthene	<0.038		0.038		mg/Kg	0.01	0.00	8270E LL
Chrysene	**0.076**		0.038		mg/Kg	0.001	**0.000076**	8270E LL
Dibenz[a,h]anthracene	<0.038		0.038		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.038		0.038		mg/Kg	0.1	0.00	8270E LL

Client Sample ID: SB25-03 (12-18) — Lab Sample ID: 475-202-6

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	**0.0094**		0.0083		mg/Kg	0.1	**0.00094**	8270E LL
Benzo[a]pyrene	**0.0086**		0.0083		mg/Kg	1	**0.0086**	8270E LL
Benzo[b]fluoranthene	**0.014**		0.0083		mg/Kg	0.1	**0.0014**	8270E LL
Benzo[k]fluoranthene	<0.0083		0.0083		mg/Kg	0.01	0.00	8270E LL
Chrysene	**0.011**		0.0083		mg/Kg	0.001	**0.000011**	8270E LL
Dibenz[a,h]anthracene	<0.0083		0.0083		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.0083		0.0083		mg/Kg	0.1	0.00	8270E LL

Client Sample ID: SB25-04 (0-3) — Lab Sample ID: 475-202-7

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	**0.37**		0.050		mg/Kg	0.1	**0.037**	8270E LL
Benzo[a]pyrene	**0.36**		0.050		mg/Kg	1	**0.36**	8270E LL
Benzo[b]fluoranthene	**0.56**		0.050		mg/Kg	0.1	**0.056**	8270E LL
Benzo[k]fluoranthene	**0.21**		0.050		mg/Kg	0.01	**0.0021**	8270E LL
Chrysene	**0.44**		0.050		mg/Kg	0.001	**0.00044**	8270E LL
Dibenz[a,h]anthracene	<0.050		0.050		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	**0.14**		0.050		mg/Kg	0.1	**0.014**	8270E LL

Client Sample ID: SB25-04 (12-18) — Lab Sample ID: 475-202-8

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	<0.0092		0.0092		mg/Kg	0.1	0.00	8270E LL
Benzo[a]pyrene	<0.0092		0.0092		mg/Kg	1	0.00	8270E LL
Benzo[b]fluoranthene	<0.0092		0.0092		mg/Kg	0.1	0.00	8270E LL
Benzo[k]fluoranthene	<0.0092		0.0092		mg/Kg	0.01	0.00	8270E LL
Chrysene	<0.0092		0.0092		mg/Kg	0.001	0.00	8270E LL
Dibenz[a,h]anthracene	<0.0092		0.0092		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.0092		0.0092		mg/Kg	0.1	0.00	8270E LL

TEF Reference:
VT TEF 13 = Vermont TEF 8270 November 2013, CA OEHHA 2015

Toxicity Summary

Client: KAS Inc
Project/Site: Old White Meeting House | 510210643

Job ID: 475-202-1

Client Sample ID: SB25-05 (0-3) — Lab Sample ID: 475-202-9

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	**0.054**		0.038		mg/Kg	0.1	**0.0054**	8270E LL
Benzo[a]pyrene	**0.083**		0.038		mg/Kg	1	**0.083**	8270E LL
Benzo[b]fluoranthene	**0.12**		0.038		mg/Kg	0.1	**0.012**	8270E LL
Benzo[k]fluoranthene	<0.038		0.038		mg/Kg	0.01	0.00	8270E LL
Chrysene	**0.11**		0.038		mg/Kg	0.001	**0.00011**	8270E LL
Dibenz[a,h]anthracene	<0.038		0.038		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.038		0.038		mg/Kg	0.1	0.00	8270E LL

Client Sample ID: SB25-05 (12-18) — Lab Sample ID: 475-202-10

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	<0.0076		0.0076		mg/Kg	0.1	0.00	8270E LL
Benzo[a]pyrene	<0.0076		0.0076		mg/Kg	1	0.00	8270E LL
Benzo[b]fluoranthene	<0.0076		0.0076		mg/Kg	0.1	0.00	8270E LL
Benzo[k]fluoranthene	<0.0076		0.0076		mg/Kg	0.01	0.00	8270E LL
Chrysene	<0.0076		0.0076		mg/Kg	0.001	0.00	8270E LL
Dibenz[a,h]anthracene	<0.0076		0.0076		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.0076		0.0076		mg/Kg	0.1	0.00	8270E LL

Client Sample ID: SB25-06 (0-3) — Lab Sample ID: 475-202-11

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	<0.046		0.046		mg/Kg	0.1	0.00	8270E LL
Benzo[a]pyrene	**0.088**		0.046		mg/Kg	1	**0.088**	8270E LL
Benzo[b]fluoranthene	**0.11**		0.046		mg/Kg	0.1	**0.011**	8270E LL
Benzo[k]fluoranthene	<0.046		0.046		mg/Kg	0.01	0.00	8270E LL
Chrysene	**0.11**		0.046		mg/Kg	0.001	**0.00011**	8270E LL
Dibenz[a,h]anthracene	<0.046		0.046		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.046		0.046		mg/Kg	0.1	0.00	8270E LL

Client Sample ID: SB25-06 (12-18) — Lab Sample ID: 475-202-12

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	TEQ	Method
Benzo[a]anthracene	<0.043		0.043		mg/Kg	0.1	0.00	8270E LL
Benzo[a]pyrene	<0.043		0.043		mg/Kg	1	0.00	8270E LL
Benzo[b]fluoranthene	<0.043		0.043		mg/Kg	0.1	0.00	8270E LL
Benzo[k]fluoranthene	<0.043		0.043		mg/Kg	0.01	0.00	8270E LL
Chrysene	<0.043		0.043		mg/Kg	0.001	0.00	8270E LL
Dibenz[a,h]anthracene	<0.043		0.043		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.043		0.043		mg/Kg	0.1	0.00	8270E LL

TEF Reference:
VT TEF 13 = Vermont TEF 8270 November 2013, CA OEHHA 2015

Toxicity Summary

Client: KAS Inc
Project/Site: Old White Meeting House | 510210643

Job ID: 475-202-1

Client Sample ID: SB25-07 (0-3) — Lab Sample ID: 475-202-13

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	VT TEF 13 ND or J = 0 TEQ	Method
Benzo[a]anthracene	**0.043**		0.041		mg/Kg	0.1	**0.0043**	8270E LL
Benzo[a]pyrene	**0.047**		0.041		mg/Kg	1	**0.047**	8270E LL
Benzo[b]fluoranthene	**0.067**		0.041		mg/Kg	0.1	**0.0067**	8270E LL
Benzo[k]fluoranthene	<0.041		0.041		mg/Kg	0.01	0.00	8270E LL
Chrysene	**0.043**		0.041		mg/Kg	0.001	**0.000043**	8270E LL
Dibenz[a,h]anthracene	<0.041		0.041		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.041		0.041		mg/Kg	0.1	0.00	8270E LL

Client Sample ID: SB25-07 (12-18) — Lab Sample ID: 475-202-14

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	VT TEF 13 ND or J = 0 TEQ	Method
Benzo[a]anthracene	**0.047**		0.045		mg/Kg	0.1	**0.0047**	8270E LL
Benzo[a]pyrene	**0.047**		0.045		mg/Kg	1	**0.047**	8270E LL
Benzo[b]fluoranthene	**0.073**		0.045		mg/Kg	0.1	**0.0073**	8270E LL
Benzo[k]fluoranthene	<0.045		0.045		mg/Kg	0.01	0.00	8270E LL
Chrysene	<0.045		0.045		mg/Kg	0.001	0.00	8270E LL
Dibenz[a,h]anthracene	<0.045		0.045		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.045		0.045		mg/Kg	0.1	0.00	8270E LL

Client Sample ID: SB25-08 (0-3) — Lab Sample ID: 475-202-15

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	VT TEF 13 ND or J = 0 TEQ	Method
Benzo[a]anthracene	**0.013**		0.0091		mg/Kg	0.1	**0.0013**	8270E LL
Benzo[a]pyrene	**0.014**		0.0091		mg/Kg	1	**0.014**	8270E LL
Benzo[b]fluoranthene	**0.027**		0.0091		mg/Kg	0.1	**0.0027**	8270E LL
Benzo[k]fluoranthene	<0.0091		0.0091		mg/Kg	0.01	0.00	8270E LL
Chrysene	**0.016**		0.0091		mg/Kg	0.001	**0.000016**	8270E LL
Dibenz[a,h]anthracene	<0.0091		0.0091		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.0091		0.0091		mg/Kg	0.1	0.00	8270E LL

Client Sample ID: SB25-08 (12-18) — Lab Sample ID: 475-202-16

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	VT TEF 13 ND or J = 0 TEQ	Method
Benzo[a]anthracene	<0.037		0.037		mg/Kg	0.1	0.00	8270E LL
Benzo[a]pyrene	<0.037		0.037		mg/Kg	1	0.00	8270E LL
Benzo[b]fluoranthene	<0.037		0.037		mg/Kg	0.1	0.00	8270E LL
Benzo[k]fluoranthene	<0.037		0.037		mg/Kg	0.01	0.00	8270E LL
Chrysene	<0.037		0.037		mg/Kg	0.001	0.00	8270E LL
Dibenz[a,h]anthracene	<0.037		0.037		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.037		0.037		mg/Kg	0.1	0.00	8270E LL

TEF Reference:
VT TEF 13 = Vermont TEF 8270 November 2013, CA OEHHA 2015

Toxicity Summary

Client: KAS Inc
Project/Site: Old White Meeting House | 510210643

Job ID: 475-202-1

Client Sample ID: Dup-2

Lab Sample ID: 475-202-21

Analyte	Result	Qualifier	RL		Unit	VT TEF 13 ND or J = 0 TEF	VT TEF 13 ND or J = 0 TEQ	Method
Benzo[a]anthracene	**0.020**		0.0086		mg/Kg	0.1	**0.0020**	8270E LL
Benzo[a]pyrene	**0.020**		0.0086		mg/Kg	1	**0.020**	8270E LL
Benzo[b]fluoranthene	**0.035**		0.0086		mg/Kg	0.1	**0.0035**	8270E LL
Benzo[k]fluoranthene	**0.012**		0.0086		mg/Kg	0.01	**0.00012**	8270E LL
Chrysene	**0.025**		0.0086		mg/Kg	0.001	**0.000025**	8270E LL
Dibenz[a,h]anthracene	<0.0086		0.0086		mg/Kg	1	0.00	8270E LL
Indeno[1,2,3-cd]pyrene	<0.0086		0.0086		mg/Kg	0.1	0.00	8270E LL

TEF Reference:

VT TEF 13 = Vermont TEF 8270 November 2013, CA OEHHA 2015

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 475-795/1-A
Matrix: Solid
Analysis Batch: 870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 795

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
2-Methylnaphthalene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Acenaphthene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Acenaphthylene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Anthracene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Benzo[a]anthracene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Benzo[a]pyrene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Benzo[b]fluoranthene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Benzo[k]fluoranthene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Benzo[g,h,i]perylene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Chrysene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Dibenz[a,h]anthracene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Fluorene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Fluoranthene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Indeno[1,2,3-cd]pyrene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Naphthalene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Phenanthrene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1
Pyrene	<0.0070		0.0070		mg/Kg		03/04/25 08:25	03/04/25 14:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/04/25 08:25*	*03/04/25 14:37*	*1*

Lab Sample ID: LCS 475-795/2-A
Matrix: Solid
Analysis Batch: 870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 795

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			1.67	1.34		mg/Kg		80	40 - 140		
2-Methylnaphthalene			1.68	1.55		mg/Kg		92	40 - 140		
Acenaphthene			1.67	1.47		mg/Kg		88	40 - 140		
Acenaphthylene			1.67	1.40		mg/Kg		84	40 - 140		
Anthracene			1.67	1.46		mg/Kg		87	40 - 140		
Benzo[a]anthracene			1.68	1.48		mg/Kg		88	40 - 140		
Benzo[a]pyrene			1.68	1.57		mg/Kg		93	40 - 140		
Benzo[b]fluoranthene			1.68	1.53		mg/Kg		91	40 - 140		
Benzo[k]fluoranthene			1.68	1.52		mg/Kg		91	40 - 140		
Benzo[g,h,i]perylene			1.68	1.41		mg/Kg		84	40 - 140		
Chrysene			1.67	1.49		mg/Kg		89	40 - 140		
Dibenz[a,h]anthracene			1.67	1.55		mg/Kg		93	40 - 140		
Fluorene			1.68	1.49		mg/Kg		89	40 - 140		
Fluoranthene			1.68	1.43		mg/Kg		85	40 - 140		
Indeno[1,2,3-cd]pyrene			1.67	1.57		mg/Kg		94	40 - 140		
Naphthalene			1.68	1.37		mg/Kg		82	40 - 140		
Phenanthrene			1.67	1.42		mg/Kg		85	40 - 140		
Pyrene			1.68	1.48		mg/Kg		88	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl-d14 (Surr)	*71*		*30 - 130*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: LCSD 475-795/3-A
Matrix: Solid
Analysis Batch: 870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 795

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			1.67	1.31		mg/Kg		79	40 - 140	2	30
2-Methylnaphthalene			1.68	1.52		mg/Kg		91	40 - 140	2	30
Acenaphthene			1.67	1.44		mg/Kg		86	40 - 140	2	30
Acenaphthylene			1.67	1.39		mg/Kg		83	40 - 140	1	30
Anthracene			1.67	1.43		mg/Kg		86	40 - 140	2	30
Benzo[a]anthracene			1.68	1.46		mg/Kg		87	40 - 140	1	30
Benzo[a]pyrene			1.68	1.54		mg/Kg		91	40 - 140	2	30
Benzo[b]fluoranthene			1.68	1.51		mg/Kg		90	40 - 140	1	30
Benzo[k]fluoranthene			1.68	1.51		mg/Kg		90	40 - 140	0	30
Benzo[g,h,i]perylene			1.68	1.40		mg/Kg		83	40 - 140	1	30
Chrysene			1.67	1.48		mg/Kg		88	40 - 140	1	30
Dibenz[a,h]anthracene			1.67	1.55		mg/Kg		93	40 - 140	0	30
Fluorene			1.68	1.48		mg/Kg		88	40 - 140	0	30
Fluoranthene			1.68	1.43		mg/Kg		85	40 - 140	0	30
Indeno[1,2,3-cd]pyrene			1.67	1.55		mg/Kg		93	40 - 140	1	30
Naphthalene			1.68	1.35		mg/Kg		81	40 - 140	2	30
Phenanthrene			1.67	1.42		mg/Kg		85	40 - 140	0	30
Pyrene			1.68	1.46		mg/Kg		87	40 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl-d14 (Surr)	*70*		*30 - 130*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 475-822/1-A
Matrix: Solid
Analysis Batch: 948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 822

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.50		0.50		mg/Kg		03/04/25 15:46	03/06/25 18:27	25
Lead	<0.50		0.50		mg/Kg		03/04/25 15:46	03/06/25 18:27	25

Lab Sample ID: LCS 475-822/2-A
Matrix: Solid
Analysis Batch: 948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			39.8	38.9		mg/Kg		98	80 - 120		
Lead			39.8	37.4		mg/Kg		94	80 - 120		

Lab Sample ID: LCSSRM 475-822/3-A
Matrix: Solid
Analysis Batch: 948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			242	231		mg/Kg		95.6	81.8 - 118.6		
Lead			194	184		mg/Kg		94.8	82.0 - 118.6		

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 475-202-10 MS
Matrix: Solid
Analysis Batch: 948

Client Sample ID: SB25-05 (12-18)
Prep Type: Total/NA
Prep Batch: 822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.0		80.2	79.4		mg/Kg	☼	97	75 - 125
Lead	11		80.2	88.6		mg/Kg	☼	97	75 - 125

Lab Sample ID: 475-202-10 MSD
Matrix: Solid
Analysis Batch: 948

Client Sample ID: SB25-05 (12-18)
Prep Type: Total/NA
Prep Batch: 822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	2.0		80.3	78.3		mg/Kg	☼	95	75 - 125	1	20
Lead	11		80.3	79.0		mg/Kg	☼	85	75 - 125	12	20

Lab Sample ID: MB 475-880/1-B
Matrix: Solid
Analysis Batch: 948

Client Sample ID: Method Blank
Prep Type: SPLP East
Prep Batch: 914

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.010	mg/L		03/06/25 08:21	03/06/25 21:30	10
Lead	<0.010		0.010	mg/L		03/06/25 08:21	03/06/25 21:30	10

Lab Sample ID: LCS 475-880/2-B
Matrix: Solid
Analysis Batch: 948

Client Sample ID: Lab Control Sample
Prep Type: SPLP East
Prep Batch: 914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.981		mg/L		98	80 - 120
Lead	1.00	0.979		mg/L		98	80 - 120

Lab Sample ID: 475-202-20 MS
Matrix: Solid
Analysis Batch: 948

Client Sample ID: Dup-1
Prep Type: SPLP East
Prep Batch: 914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.010		1.00	0.998		mg/L		99	75 - 125
Lead	0.47		1.00	1.50		mg/L		102	75 - 125

Lab Sample ID: 475-202-20 MSD
Matrix: Solid
Analysis Batch: 948

Client Sample ID: Dup-1
Prep Type: SPLP East
Prep Batch: 914

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.010		1.00	0.990		mg/L		98	75 - 125	1	20
Lead	0.47		1.00	1.67		mg/L		120	75 - 125	11	20

Accreditation/Certification and Definitions Summary

Client: KAS Inc
Job ID: 475-202-1
Project/Site: Old White Meeting House | 510210643

Laboratory: Eurofins Northeast Concord

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	1012	01-20-26

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
Moisture - 2540		Solid	Percent Solids

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
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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
MRL	Method Reporting 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
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Chain-of-Custody Record

Bold Fields Required. Please Circle Requested Analysis.

475-202 COC

Sample I.D.	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	# of Containers	Notes MeOH Vial #
SB25-01 (0-3)	2/27/25 1430	S	G	2	
SB25-01 (12-18)	1436			1	
SB25-02 (0-3)	1448			2	
SB25-02 (12-18)	1456			2	
SB25-03 (0-3)	1303			2	
SB25-03 (12-18)	1306			2	
SB25-04 (0-3)	1315			1	
SB25-04 (12-18)	1318			2	
SB25-05 (0-3)	1327			1	
SB25-05 (12-18)	1330				

VOC: 524.2 MTBE only; 524.2 VTICs; 8260 624; 1,4 Dioxane; 8021; 8015 GRO; MAVPH

SVOC: 8270 625 ABN; DBCP EDB PAH; 8015 DRO; MAEPH; PEST 608 PCB 608 PEST 8081 PCB 8082; Oil & Grease 1664; TPH 1664; TPH8100; L1; L2

TCLP: TCLP 1311 VOC; ABN PEST; METALS HERB

Inorganics: BOD CBOD; TSS; TDS; Br; Cl; F; NO_2; NO_3; SO_4; NO_2NO_3; TKN; NH_3; TN; T. PHOS.; O. PHOS.; pH; Spec. Con.; T. Res. Chlorine; T. Alk.; COD; Phenols; TOC; DOC; Total Cyanide; Total Sulfide; Reactive Cyanide; Reactive Sulfide; Flashpoint; Ignitability

Micro: Total Coliform; E. Coli; Fecal Coliform; Enterococci; Heterotrophic Plate Count

Metals: Dissolved Metals (List Below); Total Metals (List Below)

Other:

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste water

Preservative: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

Project Manager: Jeremy Roberts
Company: KAS Inc.
Address: 589 Avenue D Ste. 10
City: Williston **State:** VT **Zip:** 05495
Phone: (802) 383 0486 **Ext.:** 103
E-Mail: Jeremy R@kas-consulting.com
Site Name: Old White Meeting House
Project #: 510210643
State: NH MA ME (VT) **Other:**
Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:
Quote #: **PO #:**

QA/QC Reporting: A B C; MA MCP
Temp. 3.6 °C; Ice? (Yes) No

Reporting Options: Prelims: (Yes) or No

Electronic Options: (PDF) (Excel) Equis
Other:

Turn Around Time: 24hr* 48hr* 3-4 Days* 5 Day 7 Day 10 Day
*Pre-approval Required

Sampler(s): Craig Cameron

Relinquished By:	Date:	Time:	Received By:
[signature]	2/28/25	1002	[signature]
[signature]	2-28-25	14:00	[signature]

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu
Other Metals: Pb, As
Samples Field Filtered? ☐ Yes ☐ No
Notes: (ie: Special Detection Limits, Billing Info, If Different)
Please Contact Jeremy Roberts once preliminary are in to determine which samples to run for TCLP analysis
Site History:
Suspected Contamination: Pb, As
Field Readings:

eurofins
Environment Testing
Eastern Analytical
51 Antrim Avenue | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | E-Mail: CustomerService@EasternAnalytical.com | www.EasternAnalytical.com

(WHITE: Lab Copy GREEN: Customer Copy)

Page 2 of 3

Chain-of-Custody Record

Bold Fields Required. Please Circle Requested Analysis.

For Lab Use Only

Sample I.D.	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	VOC: 524.2 / 524.2 MTBE only / 8260 / 624 / VTICs / 1, 4 Dioxane / 8021 / 8015 GRO / MAVPH	SVOC: 8270 / 625 / ABN / DBCP / EDB / PAH / 1,2 / TPH8100 / 8015 DRO / MAEPH / PEST 608 / PEST 8081 / PCB 608 / PCB 8082 / Oil & Grease 1664 / TPH 1664	TCLP: TCLP 1311 / VOC / ABN / PEST / METALS / HERB	Inorganics: BOD / TS / CBOD / TSS / TDS / Br / Cl / F / NO_2 / NO_3 / SO_4 / NO_2NO_3 / TKN / NH_3 / TN / T. PHOS. / O. PHOS. / pH / SPEC. CON. / T. RES. CHLORINE / T. ALK. / COD / PHENOLS / TOC / DOC / TOTAL CYANIDE / TOTAL SULFIDE / REACTIVE CYANIDE / REACTIVE SULFIDE / FLASHPOINT / IGNITABILITY	Micro: Total Coliform / Fecal Coliform / E. Coli / Enterococci / Heterotrophic Plate Count	Metals: Dissolved Metals (list below) / Total Metals (list below)	Other: SPLP - Pb, As	# of Containers	Notes MeOH Vial #
SB25-06 (0-3)	2/27/25 1412	S	G		X			X		1	
SB25-06 (12-18)	1416									1	
SB25-07 (0-3)	1351									1	
SB25-07 (12-18)	1400									2	
SB25-08 (0-3)	1338							X		1	
SB25-08 (12-18)	1341				X			X		1	
SB24-01R	1254								X	1	
SB24-03R	1422									1	
SB24-04R	1446									1	
Dup-1	1446									1	

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste water

Preservative: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

Project Manager: Jeremy Roberts

Company: KAS Inc.

Address: 589 Avenue D Ste. 10

City: ~~S~~ Williston State: VT Zip: 05495

Phone: (802) ~~S~~ - 383-0486 Ext.: 103

E-Mail: JeremyR@KAS-consulting.com

Site Name: Old White Meeting House

Project #: 5102106.43

State: NH MA ME (VT) Other:

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: PO #:

QA/QC Reporting

A B C

MA MCP

Temp. 3.6 °C

ICE? (Yes) No

Reporting Options

Prelims: (Yes) or No

Electronic Options

PDF Excel

Equis

Other

Turn Around Time

24hr* 48hr*

3-4 Days*

5 Day 7 Day

10 Day

*Pre-approval Required

Sampler(s): Craig Cameron

Relinquished By:	Date:	Time:	Received By:
[signature]	2/28/25	1002	[signature]
[signature]	2.28.25	14:00	[signature]

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu

Other Metals: Pb, As

Samples Field Filtered? ☐ Yes ☐ No

Notes: (ie: Special Detection Limits, Billing Info, If Different)

Please Contact Jeremy Roberts Once prelims are in to determine which Sample(s) to run for TCLP analysis

Site History:

Suspected Contamination: Pb, As

Field Readings:

eurofins

Environment Testing Eastern Analytical

51 Antrim Avenue | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | E-Mail: CustomerService@EasternAnalytical.com | www.EasternAnalytical.com

(WHITE: Lab Copy GREEN: Customer Copy)

Page 3 of 3

Chain-of-Custody Record

For Lab Use Only

Bold Fields Required. Please Circle Requested Analysis.

Sample I.D.	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	VOC: 524.2 / 524.2 MTBE only / 8260 / 1,4 Dioxane / 8021 / 8015 GRO / MAVPH / 624 / VTICs	SVOC: 8270 / 625 / ABN / PAH / EDB / DBCP / TPH8100 / LI / L2 / 8015 DRO / MAEPH / PEST 608 / PEST 8081 / PCB 608 / PCB 8082 / Oil & Grease 1664 / TPH 1664	TCLP: TCLP 1311 / VOC / PEST / ABN / HERB / METALS	Inorganics: BOD / CBOD / TS / TSS / TDS / Br / Cl / F / NO_2 / NO_3 / SO_4 / NO_2NO_3 / TKN / NH_3 / TN / T. PHOS. / O. PHOS. / pH / Spec. Con. / T. Res. Chlorine / T. Alk. / COD / Phenols / TOC / DOC / Total Cyanide / Total Sulfide / Reactive Cyanide / Reactive Sulfide / Flashpoint / Ignitability	Micro: Total Coliform / Fecal Coliform / E. Coli / Enterococci / Heterotrophic Plate Count	Metals: Dissolved Metals (List Below) / Total Metals (List Below)	Other	# of Containers	Notes MeOH Vial #
Dup-2	2/27/25 1436	S	G		X			X				1		

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste water

Preservative: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

Project Manager: Jeremy Roberts

Company: KAS Inc.

Address: 589 Avenue D Ste. 10

City: Williston State: VT Zip: 05495

Phone: (802) 383-0186 Ext.: 103

E-Mail: JeremyR@KAS-Consulting.com

Site Name: Old White Meeting House

Project #: 5102106413

State: NH MA ME (VT) Other:

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: PO #:

QA/QC Reporting

A B C

MA MCP

Temp. 3.6 °C

ICE? (Yes) No

Reporting Options

Prelims: (Yes) or No

Electronic Options

(PDF) (Excel) Equis

other

Turn Around Time

24hr* 48hr*

3-4 Days*

5 Day 7 Day

10 Day

*Pre-approval Required

Sampler(s): Craig Cameron

Relinquished By:	Date:	Time:	Received By:
[signature]	2/28/25	1002	Sally Kelly
Sally Kelly	2-28-25	19:00	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu

Other Metals: Pb, As

Samples Field Filtered? ☐ Yes ☐ No

Notes: (ie: Special Detection Limits, Billing Info, If Different)

Please Contact Jeremy Roberts Once preliminary results are in to determine which samples to run for TCLP Analysis

Site History:

Suspected Contamination: Pb, As

Field Readings:

eurofins

Environment Testing Eastern Analytical

51 Antrim Avenue | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | E-Mail: CustomerService@EasternAnalytical.com | www.EasternAnalytical.com

(WHITE: Lab Copy GREEN: Customer Copy)

3/27/2025 (Rev. 1)

Appendix E

Data Validation Report

Old Meeting House
320 US-2
South Hero, Vermont 05486

VT DEC SMS #2024-5472
KAS #510210643

DATA VALIDATION REPORT

April 4, 2025

Prepared for:

Northwest Regional Planning Commission
75 Fairfield Street
St Albans, Vermont 05478

kas
environmental science & engineering

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

www.kas-consulting.com

802 383.0486 p
802 383.0490 f

Table of Contents

Appendices

1.0 Project Description Summary

This data validation report applies to soil samples collected at the Old Meeting House located at 320 US Route 2, South Hero, Vermont ("Site"). Samples were collected using the scope of work outlined in the approved Work Plan & Site-Specific Quality Assurance Project Plan (SSQAPP) Addendum (EPA RFA 23132), dated January 24, 2025, revised February 5, 2025 for the performance of sampling and analysis. Sampling occurred on February 27, 2025. Field quality control samples included duplicates. Laboratory analysis of samples was performed by Eastern Analytical, Inc. (EAI) of Concord, NH. Please refer to the SSQAPP Addendum for additional details concerning the Site background, work scope, and standard operating procedures. The following specific data was validated:

- Sixteen (16) shallow soil samples analyzed for Arsenic and Lead via EPA Method 6020B and polycyclic aromatic hydrocarbons (PAHs) via EPA Method 8270E; and,
- Three (3) shallow soil samples analyzed for Synthetic Precipitation Leaching Procedure (SPLP) for Arsenic and Lead via EPA Method 6020B.

The following is an overview of the various methods by which quality of laboratory data is assessed. These parameters are used to ensure that acceptable criteria of accuracy and precision are met, to ensure that any bias in reporting is below acceptance criteria, and that proper calibration of equipment has been performed.

2.0 Sampling Procedures and Protocols

Sampling was performed in accordance with the procedures specified in the SSQAPP Addendum. Field data sheets and field notebooks were reviewed to ensure proper documentation of the sampling conditions, and entries were made with permanent ink. Entries included the sampling location, time, and date. All equipment used was recorded on the daily work reports. The chain-of-custody forms were reviewed to ensure the sample identification, number, type, and size of the sample containers, preservatives used, and signatures were properly recorded, and were in accordance with the requirements of the SSQAPP. The laboratory was able to analyze the samples in accordance with the standard procedures. The samples arrived at the laboratories within the SSQAPP specified acceptable range, and samples were analyzed within EPA holding times.

3.0 Blanks

Blanks measure the influence of outside factors on reported results: trip blanks and method blanks are used to target specific factors in the sampling process. Trip blanks are to ensure that no outside contamination resulted during transit to the laboratory. Method blanks are laboratory prepared blanks of pure water or sand which are analyzed with the batch of samples to ensure that there is no contamination resulting from the laboratory handling of samples or the analysis procedures.

Method blanks were prepared by the laboratory for all analyses performed and reported no detection of compounds, indicating that there was no contamination of samples while at the laboratory.

4.0 MS/MSD and LCS/LCSD

Matrix spike/matrix spike duplicate (MS/MSD) and laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses measure accuracy to ensure that reported results are close to the actual concentrations of the tested compounds within the sample. To ensure that the matrix of the sample (i.e. soil) is not interfering with results, a matrix spike analysis is conducted. Laboratory instruments are calibrated using solutions of a known chemical makeup and concentration, to test the effectiveness of the particular analytical method on the parent material, a known concentration of the contaminant of interest (or spike) is added to the matrix and analyzed. The LCS is similar in that a known concentration of a chemical is added to a solution, but in this instance, it is a sample prepared in the laboratory of pure water. This is to test the effectiveness of the analytical method independent of the matrix.

In all MS analysis performed, laboratory acceptance criteria were met, indicating that the reported contaminant concentrations were likely close to the actual concentrations present in the samples. The data should be accepted based on the lack of detection in any of the media samples.

5.0 Relative Percent Difference

One way in which quality of data is measurable is by calculating the relative percent difference (RPD) between the sample and duplicate. RPD values assess the precision of reported values, which is indicated by a high degree of reproducibility of results. The RPD is defined as 100 times the difference between the sample result and the duplicate result, divided by the mean of the sample and duplicate results. RPD values are also calculated to assess the difference between the MS and MSD as well as the LCS and LCSD.

For all analyses, RPD values were below the QAPP specified limits of 50% for solid samples.

6.0 Surrogate Recovery

Surrogate recovery is measured when a compound of known quantity and concentration is added to the sample and then analyzed using the same standard method. The percentage of the compound recovered is reported. This is a way to test for bias in the analysis. If there is a low percent recovery concentration it can be deduced that other tested compounds may also be reported low, and conversely the same is true if the percent recovery is high.

Surrogate recovery was performed for all the PAH analysis. All surrogate recovery percentages were within the specified ranges, indicating accuracy in that the reported results are likely representative of the actual concentrations contained within the samples.

7.0 Reporting Limits

Laboratory reporting limits were compared with the applicable Form K criteria for each tested compound to ensure that laboratory analysis is relevant to the concentrations at which contaminants are of concern. Laboratory reporting limits were met for all samples analyzed.

8.0 Completeness/Deviations

The data validated in this report pertains to section 2.2 *Shallow Soil Assessment* of the SSQAPP Addendum dated January 24, 2025, revised February 5, 2025. The samples were collected following procedures outlined in the SSQAPP Addendum. No deviations from the approved work scope were noted except for the following:

- The laboratory did not analyze any soil samples for toxicity characteristic using the toxicity characteristic leaching procedure (TCLP), as instructed on the chain of custody; and,
- Only one duplicate sample was collected for PAHs, lead and arsenic analysis as opposed to the two duplicates called out in the SSQAPP. This occurred due to a field error.

These deviations were determined to not have had an effect on the data collection and analysis completed.

9.0 Conclusion

Based on the findings presented above, data pertaining to the performance of sampling and analysis should be accepted.

Leah Amerine
Quality Assurance Officer

Appendix A

Laboratory Data Validation Checklists
Soil: Metals – Arsenic and Lead

Site Name: Old White Meeting House Sample Identification: SB25-01 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-01 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-02 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-02 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-03 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-03 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-04 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-04 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-05 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-05 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-06 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-06 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-07 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-07 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-08 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-08 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Soil Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☐ No ☑ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☐ Yes ☐ No ☑ N/A

If no, explain:

Soil: Metals – Arsenic and Lead by SPLP

Site Name: Old White Meeting House Sample Identification: SB24-01R

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B-SPLP

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Aqueous Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☑ Yes ☐ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB24-03R

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B-SPLP

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Aqueous Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☑ Yes ☐ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB24-04R

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 6020B-SPLP

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Aqueous Extraction Date (if applicable): N/A

Sample Date: 2/27/2025 Analysis Date: 3/6/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☑ Yes ☐ No ☐ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☐ Yes ☐ No ☑ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☑ Yes ☐ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Soil: PAHs

Site Name: Old White Meeting House Sample Identification: SB25-01 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-01 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable): _____

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☑ Yes ☐ No ☐ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-02 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc.. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable): _____

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-02 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-03 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-03 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-04 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable): _____

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-04 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-05 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable): _____

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-05 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable): _____

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☑ Yes ☐ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-06 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable): _____

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-06 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-07 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-07 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-08 (0-3")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Site Name: Old White Meeting House Sample Identification: SB25-08 (12-18")

Job Number: 510210643

Sampler: CC QA / QC Completed By: LA

Analytical Laboratory: Eurofins/Eastern Analytical, Inc. EPA Analytical Method: 8270E

Were any abnormalities presented within Lab cover letter? ☐ Yes ☑ No

If yes, explain:

Sample Matrix: Solid Extraction Date (if applicable):

Sample Date: 2/27/2025 Analysis Date: 3/4/2025

Was analysis completed within EPA Method specified holding time?

☑ Yes ☐ No ☐ N/A

Any compounds detected in field, trip or method blanks?

☐ Yes ☑ No ☐ N/A

If yes, were these compounds detected in any of the samples analyzed?

☐ Yes ☐ No ☑ N/A

Was this sample properly labeled?

☑ Yes ☐ No ☐ N/A

Attach spreadsheet of sample and duplicated Relative Percent Difference (RPD) for applicable samples:

$$RPD = \frac{100\% \times (sample - duplicate)}{(sample + duplicate)/2}$$

Is RPD within QAPP specified limits (≤50% soil, ≤30% GW, ≤30% soil vapor)?

☐ Yes ☐ No ☑ N/A (sample not duplicated)

Were laboratory surrogate recovery concentrations acceptable?

☑ Yes ☐ No ☐ N/A

Were laboratory matrix spike, laboratory control samples, and their respective duplicates acceptable?

☑ Yes ☐ No ☐ N/A

If no, explain:

Are detection limits at or below the limits specified in Form K of the QAPP?

☐ Yes ☑ No ☐ N/A

Are laboratory detection limits below the applicable standards referenced in the QAPP?

☑ Yes ☐ No ☐ N/A

If no, explain:

Appendix B

RPD Calculators

RPD Calculator: Soil

PARAMETER	SB25-01 (12-18') *2/27/2025* 8270E	Duplicate *2/27/2025* 8270E	RPD
1-Methylnaphthalene	ND<0.0085	ND<0.0086	-
2-Methylnaphthalene	ND<0.0085	ND<0.0086	-
Acenaphthene	ND<0.0085	ND<0.0086	-
Acenaphthylene	ND<0.0085	ND<0.0086	-
Anthracene	ND<0.0085	ND<0.0086	-
Benzo[a]anthracene	**0.018**	**0.020**	-10.5
Benzo[a]pyrene	**0.019**	**0.020**	-5.1
Benzo[b]fluoranthene	**0.028**	**0.035**	-22.2
Benzo[k]fluoranthene	**0.0097**	ND<0.0086	-
Benzo[g,h,i]perylene	**0.016**	**0.012**	28.6
Chrysene	**0.021**	**0.025**	-17.4
Dibenz[a,h]anthracene	ND<0.0085	ND<0.0086	-
Fluorene	ND<0.0085	ND<0.0086	-
Fluoranthene	**0.031**	**0.038**	-20.3
Ideno[1,2,3-cd]pyrene	**0.015**	ND<0.0086	-
Naphthalene	ND<0.0085	ND<0.0086	-
Phenanthrene	**0.0097**	**0.012**	-21.2
Pyrene	**0.028**	**0.033**	-16.4

PARAMETER	SB24-04R *2/27/2025* 6020B - SPLP	Duplicate *2/27/2025* 6020B - SPLP	RPD
Arsenic	ND<0.010	ND<0.010	-
Lead	**0.43**	**0.47**	-8.9

All units in mg/Kg

Exceeds RPD of ≤50% for soil