



# CREDERE ASSOCIATES, LLC

776 Main Street  
Westbrook, Maine 04092  
Phone: 207-828-1272  
Fax: 207-887-1051

September 15, 2023

Adam Powers  
Jeremy Rush  
Elsmere BBQ  
448 Cottage Road  
South Portland, Maine  
Via email: [adampowersme@gmail.com](mailto:adampowersme@gmail.com) & [Jeremy@elsmerebbq.com](mailto:Jeremy@elsmerebbq.com)

**Subject: Indoor Air Investigation  
448 Cottage Road  
South Portland, Maine**

Dear Mr. Powers and Rush:

An Indoor Air Investigation was completed for the above referenced property (Site). This work was completed in accordance with Credere's June 30, 2023, Proposal for a Vapor Intrusion (VI) Investigation, which is included as **Attachment A**. The Site location is depicted on Maine DEP Indoor Air Sampling Field Sheet included in **Attachment C**.

## **BACKGROUND**

Maine Department of Environmental Protection (DEP) issued a request for further investigation at the Site dated March 21, 2023. The property, formerly operated as Colonial Dry Cleaners, was enrolled in the Maine DEP Voluntary Response Action Program (VRAP) and received a No Further Action (NFA) designation dated December 15, 2000. However, due to evolving concern related to vapor intrusion (VI) in the industry since issuance of the NFA letter, and identification of VI concerns at most historical dry cleaners during the Maine DEP Dry Cleaner initiative, this property was identified to require further VI investigation to supplement the historical investigations. Note that the property was also utilized as an automobile repair garage from approximately 1926-1946; a historical photograph of the building observed in the dining room of Elsmere BBQ indicates a retail fuel pump was located on the west side of the garage portion of the building.

Prior investigations focused on the former 500-gallon fuel oil and 1,000-gallon petroleum naptha underground storage tanks (USTs) on the northwest and northeast corners of the building, respectively. Soil samples were analyzed for diesel range organics (DRO) and volatile organic compounds (VOCs). Dry cleaner related chemicals are VOCs, specifically chlorinated VOCs (CVOCs), and were analyzed for as part of the VOC analysis of these previous samples. No VOCs were detected in the prior soil samples collected from the Site; to date, no groundwater samples have been collected from the Site as the groundwater surface is below the top of bedrock.

Despite the apparent lack of soil contamination in the prior investigation, CVOCs can remain bound to concrete foundations or consolidated immediately beneath foundation slabs. CVOCs in these locations can migrate through foundation perforations or earthen floors to the indoor environment, representing an exposure hazard to building occupants. Assessment of exposure via the indoor air environment was a data gap and was the focus of this VI investigation.

## **OBJECTIVES**

The following objective was identified for this VI Investigation:

- Screen the Site building indoor air for the presence or absence of CVOCs related to historical operations

## **SCOPE OF WORK AND METHODOLOGY**

The following sampling program was developed to investigate select environmental media at the Site and meet the identified objective. A photo log of field activities is included as **Attachment B**.

### **Indoor Air Sampling**

On August 22, 2023, two indoor air samples (CA-IA-1 and CA-IA-2) were collected from the dining room/bar area and kitchen, respectively, in the Site building to assess potential vapor intrusion from historical automotive repair and/or dry-cleaning operations. Locations in the building were selected based on the most common and consistent exposure areas for building occupants.

The indoor air samples were collected by positioning an evacuated batch-certified 6-liter summa canister equipped with an 8-hour regulator approximately within the breathing zone (i.e., generally 3-6 feet above the floor). The canisters were opened and allowed to fill until reaching a vacuum of between -5 and -10 inches of mercury (inHg). The canisters were sealed and submitted to Alpha Analytical of Portsmouth, New Hampshire (Alpha) for TO-15 by selective ion monitoring (SIM) analysis. The indoor air sampling field log and Maine DEP Indoor Air Sampling Field Sheet are provided in **Attachment C**. The sampling location is depicted on Maine DEP Indoor Air Sampling Field Sheet, and a summary of the collected sample and associated analysis is provided in **Table 1**.

## **RESULTS**

### **Indoor Air Analytical Results**

#### *Regulatory Criteria*

Indoor air analytical results were compared to the Maine DEP Remedial Action Guidelines (RAGs) updated May 1, 2021, and Table 6, Maine RAGs for the Indoor Air Exposure Pathway for the Commercial exposure scenario.



### *Indoor Air Results*

Indoor air analytical results are summarized in **Table 1** and the laboratory analytical report is provided in **Attachment D**. The sampling location is shown on Maine DEP Indoor Air Sampling Field Sheet in **Attachment C**.

VOCs were detected above laboratory reporting limits, but results were below the applicable RAGs.

These results are reflective of the snapshot during which the samples were collected. Building, climate, and atmospheric conditions can impact these results. Noted condition that may impact these results specifically include sampling while kitchen hoods were not in operational, hoods can cause a stack effect, and not sampling during worst case winter heating conditions.

### **CONCLUSIONS AND RECOMMENDATIONS**

Based on the results of the indoor air samples, Credere makes the following conclusions relative to the objectives:

- VOCs are present in indoor air; however, concentrations are currently below Maine DEP RAGs and do not pose a risk to Site occupants.

Based on these conclusions, Credere recommends sharing these results with the Maine DEP and permitting their offer from the March 21, 2023, letter to perform further investigation of the VI pathway both for the Site and for potential downgradient receptors.

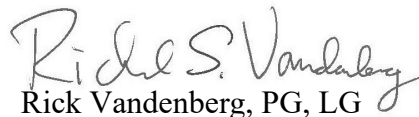
Please do not hesitate to contact me at (207) 232-5387 if you have any questions or comments.

Sincerely,

**Credere Associates, LLC**



Allison Drouin, PG, LG  
Project Manager/Senior Geologist



Rick Vandenberg, PG, LG  
Project Manager/Senior Geologist

Attachments:

- Table 1 – Indoor Air Sampling Results Summary
- Attachment A – Credere’s Proposal for Vapor Intrusion Investigation
- Attachment B – Photo Log
- Attachment C – Field Logs
- Attachment D – Laboratory Analytical Report

## TABLES





**Table 1**  
**Indoor Air Sample Results Summary**  
**Elsmere BBQ**  
**448 Cottage Road, Portland, Maine**

		Sample Location		CA-IA-1	CA-IA-2
		Sample ID		CA-IA-1	CA-IA-2
		Sample Date		8/22/2023	8/22/2023
		Sample Location:		Dining room/Bar	Kitchen
Parameter*	Maine DEP RAGs <sup>1,2</sup> ( $\mu\text{g}/\text{m}^3$ )	Results	Qualifier	Results	Qualifier
	Commercial Indoor Air				
<b>Volatile organic compounds (VOCs) by EPA Method TO-15 SIM (<math>\mu\text{g}/\text{m}^3</math>)</b>					
ethanol	NE	<b>479</b>		<b>537</b>	
propylene	NE	<b>1.12</b>		<b>1.07</b>	
dichlorodifluoromethane	440	<b>2.14</b>		<b>2.16</b>	
chloromethane	390	<b>1.25</b>		<b>1.34</b>	
1,3-butadiene	4.1	<b>0.175</b>		<b>0.166</b>	
acetone	140,000	<b>20.4</b>		<b>16.70</b>	
trichlorofluoromethane	NE	<b>1.17</b>		<b>1.24</b>	
iso-propyl alcohol	NE	<b>1.98</b>		1.23	U
methylene chloride	2,600	1.74	U	<b>11.8</b>	
carbon disulfide	3,100	<b>3.24</b>		0.623	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	22,000	<b>0.583</b>		<b>0.567</b>	
2-butanone	22,000	<b>5.37</b>		1.47	U
ethyl acetate	NE	<b>4.68</b>		<b>6.27</b>	
chloroform	5.3	<b>0.254</b>		<b>0.239</b>	
n-Hexane	3,100	<b>3.00</b>		<b>3.03</b>	
benzene	16	<b>1.75</b>		<b>1.86</b>	
carbon tetrachloride	20	<b>0.434</b>		<b>0.371</b>	
cyclohexane	26,000	<b>1.47</b>		<b>1.46</b>	
bromodichloromethane	3.3	0.134	U	<b>0.261</b>	
heptane	NE	<b>1.14</b>		<b>1.23</b>	
toluene	22,000	<b>5.92</b>		<b>5.58</b>	
tetrachloroethene	180	<b>3.40</b>		<b>3.10</b>	
ethylbenzene	49	<b>0.856</b>		<b>1.46</b>	
xylene (total)	440	<b>3.70</b>		<b>3.38</b>	
styrene	4,400	<b>0.426</b>		<b>0.396</b>	
4-ethyltoluene	NE	<b>0.344</b>		<b>0.324</b>	
1,3,5-trimethylbenzene	260	<b>0.457</b>		<b>0.423</b>	
1,2,4-Trimethylbenzene	260	<b>1.51</b>		<b>1.42</b>	
napthalene	3.6	<b>1.32</b>		<b>1.31</b>	

\*Only analytes with detections are shown, all other sample analyses results were below the laboratory reporting limits

1 - Maine DEP RAGs for Sites Contaminated with Hazardous Substances, May 1, 2021, Table 6: Maine Remedial Action Guidelines for the Indoor Air Exposure Pathway, by Exposure Scenario

DEP - Department of Environmental Protection

RAGs - Remedial Action Guidelines

NE - not listed

$\mu\text{g}/\text{m}^3$  - micrograms per cubic meter

FS - field sample

**Bold** - results detected above laboratory reporting limits but below regulatory criteria

**Bold and black shading** exceed the Maine DEP RAG

**ATTACHMENT A**

**Crederes's Proposal for Vapor Intrusion Investigation Work**



**Attachment B – Photo Log  
Elsmere BBQ  
448 Cottage Road, South Portland, Maine**



1. View dining room and kitchen area in the Site building. CA-IA-1 located on west side of bar and CA-IA-2 located on prep table along north wall of kitchen.



2. View of kitchen from CA-IA-2 location.

**ATTACHMENT B**

**Photo Log**





# CREDERE ASSOCIATES, LLC

776 Main Street  
Westbrook, Maine 04092  
Phone: 207-828-1272  
Fax: 207-887-1051

June 30, 2023  
P-23-95

Andre Duchette, Esq.  
Taylor, McCormack & Frame, LLC  
267 Commercial Street  
Portland, Maine 04101  
Via email: [aduchette@tmfattorneys.com](mailto:aduchette@tmfattorneys.com)

**SUBJECT: Proposal for a Vapor Intrusion Investigation  
448 Cottage Road  
South Portland, Maine**

Dear Mr. Duchette:

Credere Associates, LLC (Credere) is pleased to submit this proposal to conduct a Vapor Intrusion (VI) Investigation at the above listed property (Site).

## **Project Understanding**

Maine Department of Environmental Protection (DEP) issued a request for further investigation at the Site dated March 21, 2023. The property, formerly operated as Colonial Dry Cleaners, was enrolled in the Maine DEP Voluntary Response Action Program (VRAP) and received a No Further Action (NFA) designation dated December 15, 2000. However, due to evolving concern related to VI in the industry since issuance of the NFA letter, and identification of VI concerns at most historical dry cleaners during the Maine DEP Dry Cleaner initiative, this property was identified to require further VI investigation to supplement the historical investigations.

Prior investigations focused on the former underground storage tank (UST) on the north side of the building. Soil and groundwater samples were analyzed for diesel range organics (DRO) and volatile organic compounds (VOCs). Dry cleaner related chemicals are VOCs, more specifically chlorinated VOCs (CVOCs), and were analyzed for as part of the VOC analysis of these previous samples. No VOCs were detected in the prior soil and groundwater samples collected from the Site. This likely suggests offsite contaminant migration is not likely.

Despite the apparent lack of soil and groundwater contaminants, CVOCs can remain bound to concrete foundations or consolidated immediately beneath foundation slabs. CVOCs in these locations can migrate through foundation perforations or earthen floors to the indoor environment, representing an exposure hazard to building occupants. Assessment of exposure via the indoor air environment remains a data gap.

Costs for the records review completed to support this proposed scope of work are included.



Credero proposes assessment of this data gap as an initial VI screening to assess potential exposure to the recent occupants of the building. Should results indicate VI is occurring, further investigation of the sub-slab environment will be warranted.

### **Proposed Scope of Work**

The scope of work has been designed to meet the following objective:

- Screen Site building indoor air for the presence or absence of CVOCs related to historical dry cleaning operations.

#### *Indoor Air Sampling*

Indoor air sampling will be conducted in accordance with Credero's standard operating procedure (SOP) CA-14 Sub-Slab Soil Gas and Indoor Air Sampling. Two indoor air samples will be collected from the Site building according to the following table:

Sample ID	Location Description	Analyses
CA-IA-1	Basement or Kitchen	TO-15 SIM
CA-IA-2	Dining room	

SIM – selective ion monitoring

The spaces will be inventoried for materials that could contribute to background sources of contamination. The spaces will also be screened for total VOCs using a ppbRAE 3000 PID, or equivalent, calibrated with 10 parts per million by volume (ppmv) isobutylene gas with a response factor of 1.0. PID screening will focus on foundation perforations, cracks, drains, vents, and other air pathways

The indoor air samples will be collected by positioning evacuated batch-cleaned 2.7-liter summa canisters equipped with an 8-hour regulator approximately 4 feet above the floor (i.e., within the breathing zone). The canister will be opened and allowed to fill to within 2 to 5 inHg, or for 9 hours, whichever comes first.

The indoor air samples will be submitted to Alpha Analytical of Westborough, Massachusetts, for analysis of VOCs in air by the EPA method TO-15 with selective ion monitoring (SIM). Samples will be submitted with a standard ten-day turnaround time.

#### *VI Investigation Report*

A VI Investigation letter report will be prepared to include a Site description, scope of work, methodology, field logs, field and laboratory results, and conclusions of the assessment. The report will also contain recommendations for addressing any identified contamination. The report will include tabulated results and a figure of Site features. Laboratory indoor air results will be compared to the Maine DEP Remedial Action Guidelines for commercial/industrial indoor air exposure.

### **Proposed Schedule**

Credero is available to begin this work immediately and work can be completed in one day. Credero will need access to the Site building for deployment and pickup of the samples, and the



sampling is best suited to when the restaurant is closed. Laboratory samples would be submitted with a standard 10-business day turnaround time for results. The report will be provided within 2 weeks or receipt of final data. If detections above the Maine DEP RAGs are identified, you will be notified immediately.

**Cost Proposal**

Costs to perform the above scope of work will be billed on a lump sum basis per task as specified in the table below and in accordance with our attached General Provisions.

<b>Table 1. Cost Summary</b>		
<b>Task</b>	<b>Cost</b>	
<b>Records Review</b>		
<i>Credere Labor</i>		
<b>Indoor Air Sampling</b>		
<i>Credere Labor</i>		
<i>Equipment, and Direct Costs</i>		
<i>Laboratory Costs</i>		
<b>VI Investigation Report</b>		
<i>Report</i>		
<i>Tables Only</i>		
<b>Total Budget Estimate</b>		

Additional tasks completed outside this proposed scope of work will be billed on a time and materials basis (see attached 2023 Standard Labor Rates). We will notify you if any work falls outside of the original scope of work prior to completing the task.



A signature line is presented below for you to authorize and provide notice to proceed with the scope of work as described above, and to provide acceptance of the attached General Provisions.

We look forward to the opportunity of working with you on this project. If you should have any questions or require clarification on any element of this proposal, please do not hesitate to contact me at 207-749-1141 or via e-mail at [adrouin@crederellc.com](mailto:adrouin@crederellc.com).

Sincerely,  
**Creder Associates, LLC**

*Allison Drouin*

Allison Drouin, PG, LG  
Project Manager/Senior Geologist

*Rip Patten*

Rip Patten, PE, LSP, LEED-AP  
Vice President

Accepted By:

  
Andre Duchette

8/15/23  
Date

**Attachments:** 2023 Standard Rates  
General Provisions







# CREDERE ASSOCIATES, LLC

776 Main Street  
 Westbrook, Maine 04092  
 Phone: 207-828-1272  
 Fax: 207-887-1051

## Standard Labor Rates Credere Associates, LLC 2023

<u>Personnel</u>	<u>Rate/Hour</u>
Principal-in-Charge/Program Manager/QC Manager .....	\$170
Senior Project Manager/Senior Technical Lead .....	\$150
Project Manager/Technical Lead .....	\$125
Engineer III/Geologist III .....	\$115
Assistant Project Manager/Assistant Technical Lead .....	\$105
Engineer II/Geologist II .....	\$105
Engineer I/Geologist I .....	\$95
Environmental Scientist/Specialist I/II/III .....	\$85/\$95/\$105
Chemist I/II/III .....	\$85/\$95/\$105
Hazardous Building Materials Specialist I/II/III .....	\$85/\$95/\$105
CAD-GIS Specialist I/II/III .....	\$85/\$95/\$105
Administrative Assistant .....	\$60

<u>Other Direct Costs</u>	<u>Rate</u>
Communication Fee .....	3% of labor costs
Mileage .....	Current IRS Rate (\$TBD/mile)
Copies .....	\$0.20 per copy
Large Plots .....	\$10.00 per copy
Level C Safety Field Supplies .....	\$125/day
Level D Safety Field Supplies .....	\$30/day
Decontamination Supplies .....	\$15/day
Photoionization Detector (PID) .....	\$101/day; \$243/week
Photoionization Detector (ppb Rae) .....	\$170/day; \$480/week
Rugged Reader/Field PC .....	\$60/day
Multi-gas Meter .....	\$71/day
Soil Sampling Equipment .....	\$20/day
Groundwater Sampling Equipment .....	\$345/day (minimum)
Expendable Groundwater Sampling Equipment .....	\$30 to \$150/well
Soil Gas Sampling Equipment .....	\$270/day
Soil Gas Sampling Point Supplies .....	\$35/point
XRF .....	\$500/day; \$1,500/week
GPS .....	\$140/day; \$550/week
Metal Detector .....	\$25/day
Subconsultant/Subcontractor Expenses .....	cost +10%
Direct Expenses .....	cost





## General Provisions

### Fees for Consulting Services

Fees for consulting services are based on a lump sum fee as specified in the proposal. This fee includes both direct salary costs and non-salary expenses.

### On-Site Services During Construction

Should CREDERE's work be provided on the job site during project construction, remedial action or other site activities, it is understood that, in accordance with generally accepted construction practices, the construction contractor will be solely and completely responsible for working conditions on the job site, including health and safety of all persons and property during the performance of the work, and compliance with OSHA, NIOSH, USEPA, and other applicable regulations, and that these requirements will apply continuously and not be limited to normal working hours. Any monitoring of the construction contractor's performance conducted by CREDERE personnel is not intended to include review of the adequacy of the construction contractor's health or safety measures in, on, or near the construction site.

It is further understood that field services provided by CREDERE personnel will not relieve the contractor of his responsibilities for performing the work in accordance with applicable laws and regulations and with the plans and specifications.

### Disclosure of Hazards

CREDERE will take reasonable precautions for the health and safety of our employees while at the site with consideration for the available information regarding existing hazards. You will furnish to CREDERE, at the time of your authorization to proceed, all information concerning oil, hazardous, toxic, radioactive or asbestos material in, on, or near the site presenting a potential danger to human health or the environment. v

CREDERE has neither created nor contributed to the creation or existence of any actual or potentially hazardous, radioactive, toxic or otherwise dangerous substance or condition at any site, and its compensation is in no way commensurate with the potential liability that may be associated with a substance or site. Except to the extent that CREDERE expressly and in writing agrees to be legally responsible for presence, storage, treatment, disposal, or arrangement for disposal (collectively, "Disposal") of any substance or site (which substance and site shall be expressly identified), you agree to release and waive and to hold harmless and indemnify CREDERE for all claims, costs, response costs, removal costs, liabilities, attorneys fees, and damages, including natural resource damages and consequential damages against CREDERE, its officers, directors and employees, its subconsultants and their officers, directors and employees arising from or in any way connected with the Disposal of such substances. Except to the extent that CREDERE expressly and in

writing agrees otherwise, in the event that CREDERE executes shipping papers or manifests for transportation of such substances, CREDERE does so only as your agent or representative and not for purposes of arranging for disposal or as a generator of such substances.

### Right of Entry

Unless otherwise agreed, you will furnish right-of-entry on the land for CREDERE to make planned investigations. CREDERE will take reasonable precautions to minimize damage to the land from use of equipment, but have not included in our fee the cost for restoration of damage that may result from CREDERE operations. If CREDERE is required to restore the land to its former condition, this will be accomplished and the cost will be added to CREDERE's fee.

### Damage to Latent Underground Structures

Reasonable care will be exercised in locating underground structures in the vicinity of proposed investigations and construction. This will include contact with the local agency coordinating subsurface utility information and a review of plans provided by you or your representatives for the site to be investigated. CREDERE shall be entitled to rely upon any plan provided. If the location of underground structures are not known or cannot be confirmed, then there will be a degree of risk to you associated with conducting the explorations. In the absence of confirmed underground structure locations, you agree to accept the risk of damage and possible costs associated with repair and restoration of damage resulting from the exploration work.

### Samples

All samples of soil, water, waste, or other materials collected from the site will be disposed of 30 days after completion of laboratory testing unless you make other arrangements at the time you accept our proposals or unless applicable law requires their retention. CREDERE will either (1) dispose of such samples by contract with a qualified waste disposal contractor; or (2) will ship such samples to a location selected by you for final disposal. You agree to pay all costs associated with the storage, transport, and disposal of samples and to indemnify CREDERE for any liability arising therefrom. In the event any samples must be stored by CREDERE for a period in excess of 30 days after completion of laboratory testing, you agree to pay an additional fee for storage as determined by CREDERE.

### Invoices

Invoices will generally be submitted once a month for services performed during the previous month. Payment will be due within 30 days of invoice date. Payments not received within 30 days will be assessed a late fee at 1.5% of the total amount outstanding per month. In the event CREDERE engages counsel to enforce overdue payments, you will reimburse CREDERE for all reasonable attorneys' fees and court costs.





### **Ownership of Documents**

The OWNER acknowledges CREDERE reports and documents as instruments of professional service. The reports and documents prepared under this PROJECT shall become the joint property of the OWNER and CREDERE upon completion of the work and payment in full of all moneys due to CREDERE. Both during the term of this Agreement and after its termination, CREDERE may not distribute or publish such Documents without the prior written approval of the OWNER. CREDERE may use the Documents and the information contained in them for use on other projects and its business generally.

Reuse of documents by the OWNER for other than their intended use on this project without written authorization by the CREDERE will be at the OWNER's risk. OWNER shall indemnify and hold the CREDERE harmless from any claims, losses or damages, including attorneys fees, arising from the Owner's use of documents without the consent and active participation of CREDERE.

CREDERE will retain all pertinent records relating to the services performed for a period of six years following submission of CREDERE report, during which period of the records will be made available to you at all reasonable times.

### **Confidentiality**

CREDERE will hold confidential all business or technical information obtained or generated in the performance of services under this Agreement. We will not disclose such information without your consent except to the extent required for (1) performance of services under this Agreement; (2) compliance with professional standards of conduct for preservation of the public safety, health, and welfare; (3) compliance with any court order or governmental directive; and/or (4) protection of CREDERE against claims or liabilities arising from the performance of services under this Agreement. Our obligations hereunder shall not apply to information in the public domain or lawfully acquired on a non-confidential basis from others.

Notwithstanding such confidentiality, CREDERE may comply with any federal, state, county and local laws, regulations, ordinances and applicable codes regarding the reporting to the appropriate public agencies of findings with respect to potential dangers to public health, safety, or the environment. CREDERE shall have no liability or responsibility to you or to any other person or entity for reporting or disclosures made in accordance with such statutory or other lawful requirements, and you shall defend, indemnify and hold us harmless from and against any and all claims, demands, liabilities and expense, including reasonable attorneys' fees, incurred by us and related to our reporting or disclosing such information under a good-faith belief or upon advice of counsel that such reporting or disclosure is required by law.

### **Insurance**

The ENGINEER shall provide the OWNER with certificates of insurance satisfactory to the OWNER.

The ENGINEER shall carry insurance furnishing benefits in accordance with Maine law or such other worker's compensation requirement as may pertain. The ENGINEER shall carry insurance coverage for employer's liability, general liability, including broad form coverage, and automobile liability, in the amounts listed on the certificate of insurance. The ENGINEER shall also carry insurance coverage for valuable papers for the restoration of plans, field notes, drawings, computations, specifications or other Documents in the event of loss or destruction of such materials in the custody of the ENGINEER, in an amount sufficient to cover the cost of restoration.

Professional Liability Insurance Coverage. The ENGINEER shall carry professional liability insurance.

### **Standard of Care**

In accepting this Agreement for consulting services, you acknowledge the inherent risk associated with asbestos, oil, hazardous, radioactive, toxic, irritant, pollutant, or otherwise dangerous substances or conditions as well as with construction. You acknowledge that CREDERE services often require decisions which are not based upon exact science but rather upon judgmental considerations. In performing our professional services, CREDERE will use that degree of care and skill ordinarily exercised, under similar circumstances by members of the profession practicing in the same or similar locality. The standard of care shall exclusively be judged as of the time the services are rendered and not according to later standards. CREDERE makes no express or implied warranty beyond our commitments to conform to this standard.

Any action against CREDERE on account of any alleged error or omission in our report or other activities must be brought within six years of the rendition of such report or the completion of our services.

### **Limitation of Liability**

You hereby agree to and do limit the liability of CREDERE or any person or entity for which it is responsible, to the amount paid to CREDERE under this agreement, or to the amount of \$50,000, whichever is less. This limitation shall apply regardless of the cause of action or legal theory pleaded or asserted, including fraud and misrepresentation.

In addition, you hereby agree to and do limit all claims of loss, damage or expense of any type arising out the scope of this agreement, including claims for attorneys fees, to claims against CREDERE ASSOCIATES, LLC, a limited liability company, and you hereby waive all claims against any officer, member or employee of CREDERE.



**Precedence**

These conditions shall take precedence over any inconsistent or contradictory provisions contained in any proposal, contract, purchase order, requisition, notice to proceed, or like document.

**Severability**

If any of these conditions shall be finally determined to be invalid or unenforceable in whole or part, the remaining provisions hereof shall remain in full force and effect, and be binding upon the parties hereto. The parties agree to reform these conditions to replace any such invalid or unenforceable provisions with a valid and enforceable provisions that comes as close as possible to the intention of the stricken provision.

**Survival**

These conditions shall survive the completion of CREDERE's work on this project and the termination of CREDERE's work for any cause.

**Governing Law**

The validity and interpretation of this agreement shall be governed by the law in the State of Maine.

**ATTACHMENT C**  
**Indoor Air Sampling Log**



**Indoor Air Sampling Log**  
**Crede Associates, LLC, 776 Main Street, Westbrook, ME 04092**



PROJECT NAME: Elsmere BBQ  
 PROJECT NUMBER: 23001797  
 PROJECT ADDRESS: 448 Cottage Rd. South Portland, ME  
 FIELD STAFF COMPLETING SURVEY: Nathaniel Weiss  
 WEATHER: 62° sunny

DATE: 8/22/23

Indoor Air Sampling ID CA-IA-1 (8:35)

Can Size	Can ID	Controller ID	Controller Rate	PID Result (ppb)	Start Time	Initial Vacuum	End Time	End Vacuum
2.7L	3903	01299	4.5 ml/min	103	830	-29.8	400	-5.24

Sample Analysis  TO-15  TO-15 SIM  APH  Other \_\_\_\_\_

Notes: (cracks in slab, crawl space, material inventory in vicinity, floor staining, floor drains, utilities, windows, air handling equipment)  
ON BAR, left, near restrooms/back wall of original CMU building.

Indoor Air Sampling ID CA-IA-2 (8:30)

Can Size	Can ID	Controller ID	Controller Rate	PID Result (ppb)	Start Time	Initial Vacuum	End Time	End Vacuum
2.7L	3212	6388	4.5 ml/min	107	831	-29.8	405	-8.24

Sample Analysis  TO-15  TO-15 SIM  APH  Other \_\_\_\_\_

Notes: (cracks in slab, crawl space, material inventory in vicinity, floor staining, floor drains, utilities, windows, air handling equipment)  
Kitchen, back prep table near former back wall of original CMU building.

Indoor Air Sampling ID \_\_\_\_\_

Can Size	Can ID	Controller ID	Controller Rate	PID Result (ppb)	Start Time	Initial Vacuum	End Time	End Vacuum

Sample Analysis  TO-15  TO-15 SIM  APH  Other \_\_\_\_\_

Notes: (cracks in slab, crawl space, material inventory in vicinity, floor staining, floor drains, utilities, windows, air handling equipment)  
 \_\_\_\_\_  
 \_\_\_\_\_

Indoor Air Sampling ID \_\_\_\_\_

Can Size	Can ID	Controller ID	Controller Rate	PID Result (ppb)	Start Time	Initial Vacuum	End Time	End Vacuum

Sample Analysis  TO-15  TO-15 SIM  APH  Other \_\_\_\_\_

Notes: (cracks in slab, crawl space, material inventory in vicinity, floor staining, floor drains, utilities, windows, air handling equipment)  
 \_\_\_\_\_  
 \_\_\_\_\_



**Indoor Air Sampling Field Sheet  
Maine DEP**

Site Name:	ELSMERE BBQ
Town:	SOUTH PORTLAND
Date:	8/22/2023
Sample I.D.:	CA-IA-1 AND CA-IA-2
Project Manager:	ALLISON DROUIN
Sampling Personnel:	NATHANIEL WEISS
Collection Device:	( <u>Summa Can</u> ) ( <del>Tedlar Bag</del> )
Sample Type:	( <del>Subslab</del> ) ( <u>Indoor Air</u> )
Sampling Location:	CA-IA-1 - DINING ROOM CA-IA-2 - KITCHEN
Foundation Floor Type:	(Dirt) ( <u>Concrete</u> )
Foundation Wall Type:	(Concrete) ( <del>Block</del> ) ( <del>Stone</del> ) (Brick) (Slab on Grade)
Sump Hole:	(Yes) ( <u>No</u> )
Penetrations in Floor:	( <u>Sewer</u> ) (Water) (Gas) (Cracks) (Drains)
Penetrations in Wall:	(Sewer) (Water) (Gas) (Electric) (Cracks)
Suspected COCs:	(Petroleum) ( <u>Solvents</u> )
Cannister I.D.:	CA-IA-1 = 3903 CA-IA-2 = 3212
Flow Control I.D.:	CA-IA-1 = 01299 CA-IA-2 = 0388
Flow control rate:	4.5 mL/min
PID Reading	CA-IA-1 = 103; CA-IA-2 = 107
Sample Initiation Time:	CA-IA-1 = 830 CA-IA-2 = 831
Initial Vacuum:	-29.8 for both
Sample End Time:	CA-IA-1 = 1600 CA-IA-2 = 1605
Final Vacuum:	CA-IA-1 = -5.24 CA-IA-2 = -8.24

**Sample Location Sketch**



**Notes/Observations:**

CA-IA-1 COLLECTED FROM BAR AREA, NEAR RESTROOMS AND BACKWALL OF ORIGINAL CONCRETE BLOCK BUILDING. ALSO NEAR A DOORWAY CUT INTO CONCRETE MASONRY UNITS.

CA-IA-2 COLLECTED FROM KITCHEN AREA, NEAR BACKWALL OF ORIGINAL CONCRETE BLOCK BUILDING. ALSO NEAR A FLOOR DRAIN AND DOORWAY CUT INTO CONCRETE MASONRY UNITS.

**ATTACHMENT D**  
**Laboratory Analytical Reports**







## ANALYTICAL REPORT

Lab Number:	L2350541
Client:	Crede Associates, LLC 776 Main Street Westbrook, ME 04092
ATTN:	Allison Drouin
Phone:	(207) 828-1272
Project Name:	ELSMERE BBQ
Project Number:	23001797
Report Date:	09/11/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2350541-01	CA-IA-1	AIR	SOUTH PORTLAND	08/22/23 16:00	08/23/23
L2350541-02	CA-IA-2	AIR	SOUTH PORTLAND	08/22/23 16:05	08/23/23

**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

### Case Narrative (continued)

#### Volatile Organics in Air

Canisters were released from the laboratory on August 17, 2023. The canister certification results are provided as an addendum.

L2350541-01 and -02: The samples result quantitated by SIM analysis exceeded the calibration range for ethanol. The analyte result(s) that exceeded the SIM calibration range are reported by Full Scan.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 09/11/23

**AIR**

**Project Name:** ELSMERE BBQ

**Lab Number:** L2350541

**Project Number:** 23001797

**Report Date:** 09/11/23

**SAMPLE RESULTS**

Lab ID: L2350541-01  
 Client ID: CA-IA-1  
 Sample Location: SOUTH PORTLAND

Date Collected: 08/22/23 16:00  
 Date Received: 08/23/23  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/07/23 20:39  
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	254	5.00	--	479	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	98		60-140



**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

### SAMPLE RESULTS

Lab ID: L2350541-01  
 Client ID: CA-IA-1  
 Sample Location: SOUTH PORTLAND

Date Collected: 08/22/23 16:00  
 Date Received: 08/23/23  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 09/07/23 20:39  
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Propylene	0.653	0.500	--	1.12	0.861	--		1
Dichlorodifluoromethane	0.433	0.200	--	2.14	0.989	--		1
Chloromethane	0.603	0.200	--	1.25	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.079	0.020	--	0.175	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	218	5.00	--	411	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.60	1.00	--	20.4	2.38	--		1
Trichlorofluoromethane	0.208	0.050	--	1.17	0.281	--		1
iso-Propyl Alcohol	0.804	0.500	--	1.98	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	1.04	0.200	--	3.24	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.076	0.050	--	0.583	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** ELSMERE BBQ**Lab Number:** L2350541**Project Number:** 23001797**Report Date:** 09/11/23**SAMPLE RESULTS**

Lab ID: L2350541-01  
 Client ID: CA-IA-1  
 Sample Location: SOUTH PORTLAND

Date Collected: 08/22/23 16:00  
 Date Received: 08/23/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	1.82	0.500	--	5.37	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	1.30	0.500	--	4.68	1.80	--		1
Chloroform	0.052	0.020	--	0.254	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.851	0.200	--	3.00	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.548	0.100	--	1.75	0.319	--		1
Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--		1
Cyclohexane	0.428	0.200	--	1.47	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.277	0.200	--	1.14	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	1.57	0.100	--	5.92	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1





**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

### SAMPLE RESULTS

Lab ID: L2350541-01  
 Client ID: CA-IA-1  
 Sample Location: SOUTH PORTLAND

Date Collected: 08/22/23 16:00  
 Date Received: 08/23/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Tetrachloroethene	0.501	0.020	--	3.40	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.197	0.020	--	0.856	0.087	--		1
p/m-Xylene	0.612	0.040	--	2.66	0.174	--		1
Xylene (Total)	0.852	0.020	--	3.70	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.100	0.020	--	0.426	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.240	0.020	--	1.04	0.087	--		1
4-Ethyltoluene	0.070	0.020	--	0.344	0.098	--		1
1,3,5-Trimethylbenzene	0.093	0.020	--	0.457	0.098	--		1
1,2,4-Trimethylbenzene	0.307	0.020	--	1.51	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.251	0.050	--	1.32	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140



**Project Name:** ELSMERE BBQ**Lab Number:** L2350541**Project Number:** 23001797**Report Date:** 09/11/23**SAMPLE RESULTS**

Lab ID: L2350541-02  
 Client ID: CA-IA-2  
 Sample Location: SOUTH PORTLAND

Date Collected: 08/22/23 16:05  
 Date Received: 08/23/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 09/07/23 21:20  
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	285	5.00	--	537	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	96		60-140



**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

### SAMPLE RESULTS

Lab ID: L2350541-02  
 Client ID: CA-IA-2  
 Sample Location: SOUTH PORTLAND

Date Collected: 08/22/23 16:05  
 Date Received: 08/23/23  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 09/07/23 21:20  
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Propylene	0.622	0.500	--	1.07	0.861	--		1
Dichlorodifluoromethane	0.436	0.200	--	2.16	0.989	--		1
Chloromethane	0.651	0.200	--	1.34	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.075	0.020	--	0.166	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	239	5.00	--	450	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.02	1.00	--	16.7	2.38	--		1
Trichlorofluoromethane	0.221	0.050	--	1.24	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	3.41	0.500	--	11.8	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.074	0.050	--	0.567	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

### SAMPLE RESULTS

Lab ID: L2350541-02  
 Client ID: CA-IA-2  
 Sample Location: SOUTH PORTLAND

Date Collected: 08/22/23 16:05  
 Date Received: 08/23/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	1.74	0.500	--	6.27	1.80	--		1
Chloroform	0.049	0.020	--	0.239	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.861	0.200	--	3.03	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.582	0.100	--	1.86	0.319	--		1
Carbon tetrachloride	0.059	0.020	--	0.371	0.126	--		1
Cyclohexane	0.425	0.200	--	1.46	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	0.039	0.020	--	0.261	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.299	0.200	--	1.23	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	1.48	0.100	--	5.58	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



**Project Name:** ELSMERE BBQ**Lab Number:** L2350541**Project Number:** 23001797**Report Date:** 09/11/23**SAMPLE RESULTS**

Lab ID: L2350541-02  
 Client ID: CA-IA-2  
 Sample Location: SOUTH PORTLAND

Date Collected: 08/22/23 16:05  
 Date Received: 08/23/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Tetrachloroethene	0.457	0.020	--	3.10	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.335	0.020	--	1.46	0.087	--		1
p/m-Xylene	0.554	0.040	--	2.41	0.174	--		1
Xylene (Total)	0.778	0.020	--	3.38	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.093	0.020	--	0.396	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.224	0.020	--	0.973	0.087	--		1
4-Ethyltoluene	0.066	0.020	--	0.324	0.098	--		1
1,3,5-Trimethylbenzene	0.086	0.020	--	0.423	0.098	--		1
1,2,4-Trimethylbenzene	0.289	0.020	--	1.42	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.249	0.050	--	1.31	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/07/23 19:22

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1824883-4								
Ethanol	ND	5.00	--	ND	9.42	--		1

Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/07/23 20:00

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1824885-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1

Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM  
Analytical Date: 09/07/23 20:00

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1824885-4								
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1



Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/07/23 20:00

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1824885-4								
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Xylene (Total)	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/07/23 20:00

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1824885-4								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.020	--	ND	0.193	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

## Lab Control Sample Analysis

Batch Quality Control

Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1824883-3								
Ethanol	88		-		40-160	-		

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1824885-3								
Propylene	109		-		70-130	-		25
Dichlorodifluoromethane	85		-		70-130	-		25
Chloromethane	78		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	93		-		70-130	-		25
Vinyl chloride	100		-		70-130	-		25
1,3-Butadiene	89		-		70-130	-		25
Bromomethane	102		-		70-130	-		25
Chloroethane	109		-		70-130	-		25
Ethyl Alcohol	80		-		40-160	-		25
Vinyl bromide	101		-		70-130	-		25
Acrolein	83		-		60-113	-		25
Acetone	90		-		40-160	-		25
Trichlorofluoromethane	90		-		70-130	-		25
iso-Propyl Alcohol	79		-		40-160	-		25
Acrylonitrile	81		-		70-130	-		25
1,1-Dichloroethene	98		-		70-130	-		25
tert-Butyl Alcohol <sup>1</sup>	94		-		70-130	-		25
Methylene chloride	126		-		70-130	-		25
3-Chloropropene	134	Q	-		70-130	-		25
Carbon disulfide	98		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		-		70-130	-		25
trans-1,2-Dichloroethene	110		-		70-130	-		25
1,1-Dichloroethane	109		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1824885-3								
Methyl tert butyl ether	92		-		70-130	-		25
Vinyl acetate	81		-		70-130	-		25
2-Butanone	92		-		70-130	-		25
cis-1,2-Dichloroethene	111		-		70-130	-		25
Ethyl Acetate	121		-		70-130	-		25
Chloroform	96		-		70-130	-		25
Tetrahydrofuran	92		-		70-130	-		25
1,2-Dichloroethane	92		-		70-130	-		25
n-Hexane	96		-		70-130	-		25
1,1,1-Trichloroethane	83		-		70-130	-		25
Benzene	85		-		70-130	-		25
Carbon tetrachloride	83		-		70-130	-		25
Cyclohexane	95		-		70-130	-		25
Dibromomethane <sup>1</sup>	93		-		70-130	-		25
1,2-Dichloropropane	99		-		70-130	-		25
Bromodichloromethane	92		-		70-130	-		25
1,4-Dioxane	96		-		70-130	-		25
Trichloroethene	106		-		70-130	-		25
2,2,4-Trimethylpentane	100		-		70-130	-		25
cis-1,3-Dichloropropene	85		-		70-130	-		25
4-Methyl-2-pentanone	84		-		70-130	-		25
trans-1,3-Dichloropropene	78		-		70-130	-		25
1,1,2-Trichloroethane	97		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: ELSMERE BBQ

Lab Number: L2350541

Project Number: 23001797

Report Date: 09/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1824885-3								
Toluene	111		-		70-130	-		25
2-Hexanone	92		-		70-130	-		25
Dibromochloromethane	127		-		70-130	-		25
1,2-Dibromoethane	105		-		70-130	-		25
Tetrachloroethene	103		-		70-130	-		25
1,1,1,2-Tetrachloroethane	112		-		70-130	-		25
Chlorobenzene	109		-		70-130	-		25
Ethylbenzene	113		-		70-130	-		25
p/m-Xylene	113		-		70-130	-		25
Bromoform	128		-		70-130	-		25
Styrene	111		-		70-130	-		25
1,1,2,2-Tetrachloroethane	124		-		70-130	-		25
o-Xylene	115		-		70-130	-		25
1,2,3-Trichloropropane <sup>1</sup>	97		-		70-130	-		25
Isopropylbenzene	105		-		70-130	-		25
Bromobenzene <sup>1</sup>	102		-		70-130	-		25
4-Ethyltoluene	111		-		70-130	-		25
1,3,5-Trimethylbenzene	110		-		70-130	-		25
1,2,4-Trimethylbenzene	109		-		70-130	-		25
Benzyl chloride	105		-		70-130	-		25
1,3-Dichlorobenzene	115		-		70-130	-		25
1,4-Dichlorobenzene	114		-		70-130	-		25
sec-Butylbenzene	102		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: ELSMERE BBQ

Project Number: 23001797

Lab Number: L2350541

Report Date: 09/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1824885-3								
p-Isopropyltoluene	89		-		70-130	-		25
1,2-Dichlorobenzene	110		-		70-130	-		25
n-Butylbenzene	109		-		70-130	-		25
1,2-Dibromo-3-chloropropane	99		-		70-130	-		25
1,2,4-Trichlorobenzene	112		-		70-130	-		25
Naphthalene	99		-		70-130	-		25
1,2,3-Trichlorobenzene	117		-		70-130	-		25
Hexachlorobutadiene	102		-		70-130	-		25

Project Name: ELSMERE BBQ

Project Number: 23001797

Serial\_No:09112317:48  
Lab Number: L2350541

Report Date: 09/11/23

### Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2350541-01	CA-IA-1	01299	Flow 5	08/17/23	433744		-	-	-	Pass	4.5	4.3	5
L2350541-01	CA-IA-1	3903	2.7L Can	08/17/23	433744	L2345373-01	Pass	-29.8	-5.5	-	-	-	-
L2350541-02	CA-IA-2	0388	Flow 5	08/17/23	433744		-	-	-	Pass	4.5	4.2	7
L2350541-02	CA-IA-2	3212	2.7L Can	08/17/23	433744	L2345373-01	Pass	-29.8	-8.6	-	-	-	-



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2345373  
**Report Date:** 09/11/23

### Air Canister Certification Results

**Lab ID:** L2345373-01  
**Client ID:** CAN 2849 SHELF 6  
**Sample Location:**

**Date Collected:** 08/04/23 18:00  
**Date Received:** 08/07/23  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 08/11/23 18:17  
**Analyst:** RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2345373  
**Report Date:** 09/11/23

### Air Canister Certification Results

Lab ID: L2345373-01  
 Client ID: CAN 2849 SHELF 6  
 Sample Location:

Date Collected: 08/04/23 18:00  
 Date Received: 08/07/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2345373  
**Report Date:** 09/11/23

### Air Canister Certification Results

Lab ID: L2345373-01  
 Client ID: CAN 2849 SHELF 6  
 Sample Location:

Date Collected: 08/04/23 18:00  
 Date Received: 08/07/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2345373  
**Report Date:** 09/11/23

### Air Canister Certification Results

Lab ID: L2345373-01  
 Client ID: CAN 2849 SHELF 6  
 Sample Location:

Date Collected: 08/04/23 18:00  
 Date Received: 08/07/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2345373  
**Report Date:** 09/11/23

### Air Canister Certification Results

Lab ID: L2345373-01  
 Client ID: CAN 2849 SHELF 6  
 Sample Location:

Date Collected: 08/04/23 18:00  
 Date Received: 08/07/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2345373  
**Report Date:** 09/11/23

### Air Canister Certification Results

Lab ID: L2345373-01  
 Client ID: CAN 2849 SHELF 6  
 Sample Location:

Date Collected: 08/04/23 18:00  
 Date Received: 08/07/23  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 08/11/23 18:17  
 Analyst: RAY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1





**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2345373  
**Report Date:** 09/11/23

### Air Canister Certification Results

Lab ID: L2345373-01  
 Client ID: CAN 2849 SHELF 6  
 Sample Location:

Date Collected: 08/04/23 18:00  
 Date Received: 08/07/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2345373  
**Report Date:** 09/11/23

### Air Canister Certification Results

Lab ID: L2345373-01  
 Client ID: CAN 2849 SHELF 6  
 Sample Location:

Date Collected: 08/04/23 18:00  
 Date Received: 08/07/23  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140

**Project Name:** ELSMERE BBQ**Lab Number:** L2350541**Project Number:** 23001797**Report Date:** 09/11/23**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

NA                                      Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2350541-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2350541-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)

**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Chlordane:** The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Gasoline Range Organics (GRO):** Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

**Data Qualifiers**

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

**Project Name:** ELSMERE BBQ  
**Project Number:** 23001797

**Lab Number:** L2350541  
**Report Date:** 09/11/23

## REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625.1:** alpha-Terpineol

**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).

**Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

# AIR ANALYSIS

PAGE 1 OF 1

**ALPHA ANALYTICAL**  
**CHAIN OF CUSTODY**  
 320 Forbes Blvd, Mansfield, MA 02048  
 TEL: 508-822-9300 FAX: 508-822-3288

**Client Information**  
 Client: Credera Associate LLC  
 Address: 776 main st.  
Westbrook, ME 04092  
 Phone: 207 828 1272 x15  
 Fax:  
 Email: adrawin@crederellc.com

**Project Information**  
 Project Name: Elsmere BBQ  
 Project Location: South Portland  
 Project #: 23001797  
 Project Manager: Allison Drawin  
 ALPHA Quote #:

**Turn-Around Time**  
 Standard     RUSH (only confirmed if pre-approved)  
 Date Due:                      Time:

Date Rec'd in Lab: 8/24/23  
**Report Information - Data Deliverables**  
 FAX  
 ADEx  
 Criteria Checker:  
(Default based on Regulatory Criteria Indicated)  
 Other Formats:  
 EMAIL (standard pdf report)  
 Additional Deliverables:  
 Report to: (if different than Project Manager)

ALPHA Job #: L2350541  
**Billing Information**  
 Same as Client info    PO #:  
**Regulatory Requirements/Report Limits**

State/Fed	Program	Res / Comm

These samples have been previously analyzed by Alpha  
 Other Project Specific Requirements/Comments:  
 Project-Specific Target Compound List:

**All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS				Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum						TO-15	TO-15 SIM	APH <small>Subtract Non-petroleum HCs</small>	Fixed Gases <small>Sulfides &amp; Mercaptans by TO-15</small>	
50541-01	CA-IA-1	8/22/23	830	400	-29.8	-5.24	AA	NW	2.7L	3903	01299	X				
.02	CA-IA-2	8/22/23	831	405	-29.8	-8.24	AA	NW	2.7L	3212	0388	X				

\*SAMPLE MATRIX CODES  
 AA = Ambient Air (Indoor/Outdoor)  
 SV = Soil Vapor/Landfill Gas/SVE  
 Other = Please Specify

Container Type: CS

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By: [Signature] Date/Time: 8/23/23 12:00  
 Received By: [Signature] Date/Time: 8/23/23 10:00  
[Signature] 8/23/23 20:30 [Signature] 8/23 2030

06:30  
 8/24/23  
 AM  
 0630  
 8/24/23  
 AAL