



Fourth Quarter 2024 Groundwater Monitoring Report

416 Miller Place-Yaphank Road
Miller Place, New York

January 30, 2025

Prepared for:

Coram Materials Corp.
416 Miller Place-Yaphank Road
Miller Place, New York 11764

Prepared by:

**Roux Environmental Engineering
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1. Introduction

On behalf of Coram Materials Corp. (Coram Materials), Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this Quarterly Groundwater Monitoring Report (Report) to summarize the groundwater monitoring activities completed during the fourth quarter of 2024 at the Coram Materials site, located at 416 Miller Place-Yaphank Road, Miller Place, New York (Site). The Site is currently owned and operated by Coram Materials, and the groundwater monitoring activities described in this Report were completed in accordance with the Groundwater Study at Long Island Mines Work Plan, prepared by the New York State Department of Environmental Conservation (NYSDEC), dated June 2022 (Work Plan), and in accordance with the Site-Specific Work Plan, Prepared by Roux, dated July 3, 2023, for the Site. The Groundwater Study is a three-year program monitored by the NYSDEC providing quarterly groundwater sampling of select parameters at volunteer mine sites across Long Island. Coram Materials has agreed to voluntarily participate in this program.

This Report summarizes the monitoring that occurred during the fourth quarter of 2024 and provides a brief description of Site background information, a description of the field activities and methodologies, and a discussion of the groundwater analytical results and conclusions. The Report is organized as follows:

- Section 1: Introduction;
- Section 2: Site Overview;
- Section 3: Quarterly Groundwater Sampling Methods and Results; and
- Section 4: Conclusions and Schedule for Future Monitoring Activities.

As required by the NYSDEC Guidance, Roux has submitted the latest analytical results Electronic Data Deliverable (EDD) for this sampling event to NYSDEC using the Environmental Information Management System (EIMS).

Per NYSDEC requirements and as specified in the Work Plan, this quarterly groundwater monitoring event included submitting groundwater samples for analysis for an expanded list of parameters. Details on the analytical parameters included in this monitoring event are provided below in Section 3.2.2.

2. Site Overview

This section includes a brief description of the Site and its history.

2.1 Site Description

The Site is located at 416 Miller Place-Yaphank Road, Miller Place, New York (see Site Location Map provided as Figure 1). It is bordered to the west by residential properties and the Washington Memorial Park cemetery, to the south by Whiskey Road, to the east by Miller Place-Yaphank Road, and to the north by a vacant wooded property.

The Site is approximately 392 acres and currently operates as a sand and gravel mine in accordance with the existing MLRL Permit (NYSDEC Permit ID No. 1-4722-00795/00005). Two wet dredging setups are utilized for mining operations. A Site Plan is provided as Figure 2.

2.2 Groundwater Study at Long Island Mines Work Plan

The groundwater monitoring activities described in this Report were completed in accordance with the Groundwater Study at Long Island Mines Work Plan, prepared by the New York State Department of Environmental Conservation (NYSDEC), dated June 2022 (Work Plan), and in accordance with the Site-Specific Work Plan, Prepared by Roux, dated July 3, 2023, for the Site. Starting in the 3rd Quarter of 2023, Coram Materials entered into the three-year Groundwater Study as a volunteer. NYSDEC, in consultation with the New York State Department of Health (NYSDOH), prepared the Work Plan to study the potential impact, if any, to groundwater quality from sand and gravel mining on Long Island.

In accordance with the Work Plan, a Site-Specific Work Plan was prepared by Roux, to supplement the NYSDEC Work Plan. The Site-Specific Work Plan provides a comprehensive scope and methodology to be followed throughout the Groundwater Study period.

3. Quarterly Groundwater Sampling Methods and Results

This section details the groundwater gauging and sampling activities implemented at the Site as part of the monitoring events that took place in the fourth quarter of 2024.

3.1 Groundwater Gauging

In accordance with the Work Plan, Roux conducted a complete water level gauging round on December 10, 2024, to determine the depth to water (DTW) and the current depth to bottom (DTB) in each well within the Site's monitoring well network prior to the sampling event. All measurements were collected from a consistent measuring point elevation on the well casing. The DTW and DTB in each well was measured using an electronic water level meter with an accuracy of +/- 0.01 feet.

All monitoring wells within the monitoring well network were previously surveyed on June 9, 2021, by Mega Engineering and Land Surveying, P.C. (Mega), a New York State licensed surveyor, to obtain horizontal and vertical coordinates. Horizontal coordinates were based upon New York State Plane Coordinates System North American Datum of 1983 (NAD 83) in US Survey Feet. Vertical elevations were measured for grade and top-of-casing (measuring point) elevations at all monitoring well locations referenced to North American Vertical Datum of 1988 (NAVD 88). The DTW, DTB, and calculated water table elevations from the December 10, 2024, gauging round are included as Table 2, and all groundwater elevations were calculated relative to mean sea level (MSL).

3.1.1 Shallow Zone

On December 19 2024, shallow groundwater elevations ranged from 48.35 feet above mean sea level (ft amsl) in monitoring well MW-11S to 50.96 ft amsl in monitoring well PZ-5. Shallow groundwater flow direction is generally to the northeast, as shown on Figure 3.

3.1.2 Deep Zone

On December 10, 2024, deep groundwater elevations ranged from 46.09 ft amsl in monitoring well MW-6D to 49.68 ft amsl in monitoring well MW-12D. Deep groundwater flow is generally to the east, as shown on Figure 4.

3.2 Groundwater Sampling

Following the completion of the comprehensive groundwater gauging round, Roux collected groundwater samples from all 21 groundwater monitoring wells required in the Work Plan from December 10 – 16, 2024. Each monitoring well was purged and sampled with new dedicated tubing that was disposed of following sample collection. Monitoring wells were purged and sampled using a Grundfos Rediflo2 variable speed submersible pump, in accordance with USEPA low-flow sampling requirements. Field instrument calibration information is included in Appendix A. Field parameters (i.e., pH, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity) were collected while purging each well using a water quality meter with a flow-through cell until parameters stabilized. The purge logs detailing flow rates, field parameter measurements, field observations, and sample information for each quarterly event are included as Appendix B. Once the groundwater parameters stabilized, one groundwater sample was collected from

each of the available monitoring wells. Groundwater samples were collected directly into laboratory-supplied sample bottles (that contained the proper preservative, if required) that were then sealed, labeled with all relevant information, and immediately placed in an ice-filled cooler. The samples to be submitted for analysis for dissolved iron and manganese were filtered in the field prior to being collected in preserved bottlenecks. All samples were then sent via courier under chain-of-custody procedures to Pace Analytical Services, LLC, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program-certified laboratory located at 8 Walkup Drive Westborough, Massachusetts (Pace Analytical).

Following sample collection at each monitoring well, all non-dedicated sampling equipment was properly decontaminated using Alconox® Powdered Precision Cleaner diluted as per manufacturing specifications. Decontamination procedures were documented in the Site-specific field logbook. As per the NYSDEC Guidance, purged water from the sampling activities was discharged back to the ground surface as light non-aqueous phase liquids (LNAPL)/dense non-aqueous phase liquids (DNAPL) impacted groundwater was not encountered.

3.2.1 Quality Assurance/Quality Control (QA/QC)

Field and laboratory QA/QC procedures were used to ensure field sampling and analytical procedures were consistent and to evaluate the usability of the data. In accordance with the Work Plan, four trip blanks, two equipment blanks, two field duplicates, and two matrix spike/matrix spike duplicates (MS/MSD) were collected and analyzed.

3.2.2 Laboratory Analysis

In general accordance with the Work Plan, groundwater samples were analyzed for the following list of compounds:

- Target Compound List (TCL) Volatile Organic Compounds (VOCs) via USEPA Method 8260B
- TCL semi-volatile organic compounds (SVOCs) via USEPA Method 8270E
- Target Analyte List (TAL) Metals, Total and Dissolved via USEPA Method 200.7
- Cations/Anions:
 - o Ammonium via Method 9056A
 - o Chloride via Method SM4500
 - o Bromide via Method 300.1
 - o Nitrate/Nitrite via Method SM4500
 - o Total Nitrogen via USEPA Method TKN EPA 351.2
 - o Sulfide via Method SM3500
 - o Sulfate via Method 375.2
 - o Phosphate via SM4500
 - o Iodide via Method 9056A
 - o Carbonate via Method 2320B
 - o Bi-Carbonate via Method 2320B
 - o Fluoride via Method SM4500
- Total Dissolved Solids via Method SM2540C

- Emerging Contaminants¹
- Radionuclides¹

The samples analyzed for dissolved metals were filtered in the field using in-line, 0.45 micrometer field filters.

3.3 Groundwater Analytical Results

Groundwater sample results were compared to the NYSDEC Ambient Water Quality Standards and Guidance Values (AWQSGVs). Analytical results are presented in Tables 3 through 8. Category B analytical data packages provided by Pace Analytical are included as Appendix C.

3.3.1 Volatile Organic Compounds

There were no detections of VOCs exceeding AWQSGVs in any of the samples.

3.3.2 Semivolatile Organic Compounds

SVOCs were detected in eight samples at concentrations exceeding AWQSGVs. A summary of the detections is provided below:

Compound	NYSDEC AWQSGV (µg/L)	Detections above AWQSGV	Range in Concentrations above AWQSGV (µg/L)	Sample with Maximum Concentration
Phenol	1	8	1.1 J – 5.5	MW-4S

Detections above AWQSGVs include duplicate results.

Phenol was the only SVOC detected above AWQSGVs during the 4th Quarter sampling event. Detections of SVOCs observed across the Site are consistent with the results observed during the 3rd Quarter 2024 sampling event and all SVOCs were detected at low-level concentrations. SVOCs in groundwater will continue to be monitored in future sampling events.

3.3.3 Metals

A summary of detections of metals with concentrations exceeding AWQSGVs is provided below:

Compound		AWQSGV (µg/L)	Detections above AWQSGV	Range in Concentrations above AWQSGV (µg/L)	Sample with Maximum Concentration
Iron	Total	300	4	492 - 3,350	MW-11D
	Dissolved	300	2	2,190 – 2,870	MW-11D
Mercury	Total	0.7	2	1.03 – 1.2	MP-1D
	Dissolved	0.7	2	0.74 – 0.88	MP-1D

¹ Per NYSDEC requirements, emerging contaminants and radionuclide samples were collected from two upgradient and two downgradient wells only. Wells were selected by NYSDEC prior to the sampling event.

Compound		AWQSGV (µg/L)	Detections above AWQSGV	Range in Concentrations above AWQSGV (µg/L)	Sample with Maximum Concentration
Sodium	Total	20000	3	22,600 – 70,000	MW-12S
	Dissolved	20000	3	23,400 – 67,900	MW-12S

Detections above AWQSGVs include duplicate results.

Total mercury was detected in one well, MP-1D, and its duplicate sample at concentrations ranging from 1.03 to 1.2 µg/L, exceeding the AWQSGV (0.7 µg/L). Total mercury has historically been detected at MP-1D, at similar, low concentrations. Dissolved mercury was detected in the same well, MP-1D, and its duplicate sample, at concentrations ranging from 0.74 to 0.88 µg/L, slightly exceeding the AWQSGV (0.7 µg/L). Dissolved mercury has historically been detected at MP-1D below the AWQSGV. Total and dissolved mercury will continue to be monitored in future sampling events.

All other metals detected above AWQSGVs are naturally occurring and not indicative of a source of contamination.

3.3.4 General Chemistry

A summary of general chemistry detections exceeding AWQSGVs is provided below:

Compound	NYSDEC AWQSGV (mg/L)	Detections above AWQSGV	Range in Concentrations above AWQSGV (mg/L)	Sample with Maximum Concentration
Sulfide	0.05	2	2.0	PZ-6 & MW-11S

The general chemistry results show two low-level detections of sulfide exceeding the AWQSGV in two monitoring wells, PZ-6 and MW-11S. Sulfide is naturally occurring when sulfur in soil comes in contact with groundwater and the presence of sulfide is likely consistent with background conditions.

Sulfide in groundwater will continue to be monitored in future sampling events.

3.3.5 Emerging Contaminants

Per- and poly-fluoralkyl substances (PFAS) and 1,4-dioxane (collectively, Emerging Contaminants) samples were collected from two upgradient and two downgradient wells. The wells were selected by NYSDEC prior to the sampling event. A summary of detections of emerging contaminants with concentrations exceeding AWQSGVs is provided below:

Analyte	NYSDEC AWQSGVs (µg /L)	Detections above NYSDEC AWQSGVs	Range in Concentration Above NYSDEC AWQSGVs (µg/L)	Sample with Maximum Concentration
Perfluorooctanesulfonic acid (PFOS)	0.0027	3	0.00314 – 0.0509	PZ-6 DUP
Perfluorooctanoic acid (PFOA)	0.0067	3	0.00967 – 0.0205	PZ-6 DUP

There were no detections of 1,4-dioxane exceeding AWQSGVs. The three low-level detections of PFAS were observed in two wells, one upgradient (MW-4S) and one downgradient/cross gradient (PZ-6), with one detection observed in the field duplicate collected from the downgradient/cross gradient well, PZ-6. The other two wells sampled for PFAS showed no detections exceeding AWQSGVs. There is no documented use of PFAS at the Site, and results are consistent with the results observed during the 3rd Quarter 2024 sampling event. Similar to the 3rd Quarter 2024 monitoring event, elevated PFOS and PFOA were identified in well MW-4S, located on the extreme upgradient edge of the Site, confirming that PFAS compounds are migrating on-site from an unidentified off-site source. Therefore, the low-level detections of PFAS at the Site are likely attributed to a combination of background conditions and an off-site source.

3.3.6 Radionuclides

The following radionuclides were analyzed from samples collected from two upgradient and two downgradient wells:

- Isotopic Uranium
- Isotopic Thorium
- Radium-226
- Radium-228

Monitoring wells were selected by NYSDEC prior to the sampling event. There are no AWQSGVs for radionuclides.

Radionuclides are known to occur naturally in bedrock, soil, and groundwater at low levels. The low-level detections of Radionuclides are likely naturally occurring. A summary of radionuclide results is shown on Table 8.

4. Conclusions and Schedule for Future Monitoring Activities

The following sections present conclusions from the monitoring activities that occurred in the fourth quarter of 2024 and a description of the work that is scheduled to occur in the first quarter of 2025.

4.1 Conclusions

The SVOC results showed detections of one SVOC, phenol, in several groundwater samples, at concentrations exceeding AWQSGVs, which is consistent with 3rd Quarter 2024 results. Phenols were detected above the AWQSGV in multiple samples, at low concentrations, or low estimated concentrations, such that they do not pose toxicity concerns. The presence of phenol in groundwater will continue to be monitored in future quarterly sampling events.

The metal results identified the exceedance of total mercury detected in monitoring well MP-1D, which is consistent with historical results. Dissolved mercury was also detected in monitoring well MP-1D, slightly above the AWQSGV. Metals concentrations detected are consistent with those concentrations detected in historical groundwater sampling events. The presence of metals in groundwater will continue to be monitored in future quarterly sampling events.

The general chemistry results showed two detections of sulfide exceeding the AWQSGV in monitoring wells PZ-6 and MW-11S. Sulfide is naturally occurring when sulfur in soil comes in contact with groundwater and the presence of sulfide is likely consistent with background conditions. The presence of sulfide in groundwater will continue to be monitored in future quarterly sampling events.

Radionuclides were detected at very low levels, are naturally occurring in the environment, and likely not related to mine operations. Radionuclides will continue to be monitored in the next quarterly sampling event.

VOCs were not detected at concentrations exceeding AWQSGVs.

The emerging contaminants results showed detections of PFAS exceeding the AWQSGVs in two monitoring wells, which is consistent with the 3rd Quarter 2024 results. The low-level PFAS detections in the upgradient well MW-4S, are indicative of an offsite source migrating on-site. It is our understanding that NYSDEC is requesting the analysis for some emerging contaminants be conducted for one additional monitoring event (1st Quarter 2025), however, this has not yet been confirmed.

4.2 Schedule

The next quarterly groundwater sampling event will occur in March 2025, and will be performed in accordance with the Work Plan. A summary report and data deliverable will be submitted to the NYSDEC within 45 days of sample collection.

Respectfully submitted,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.



Ashley Iervolino
Staff Scientist

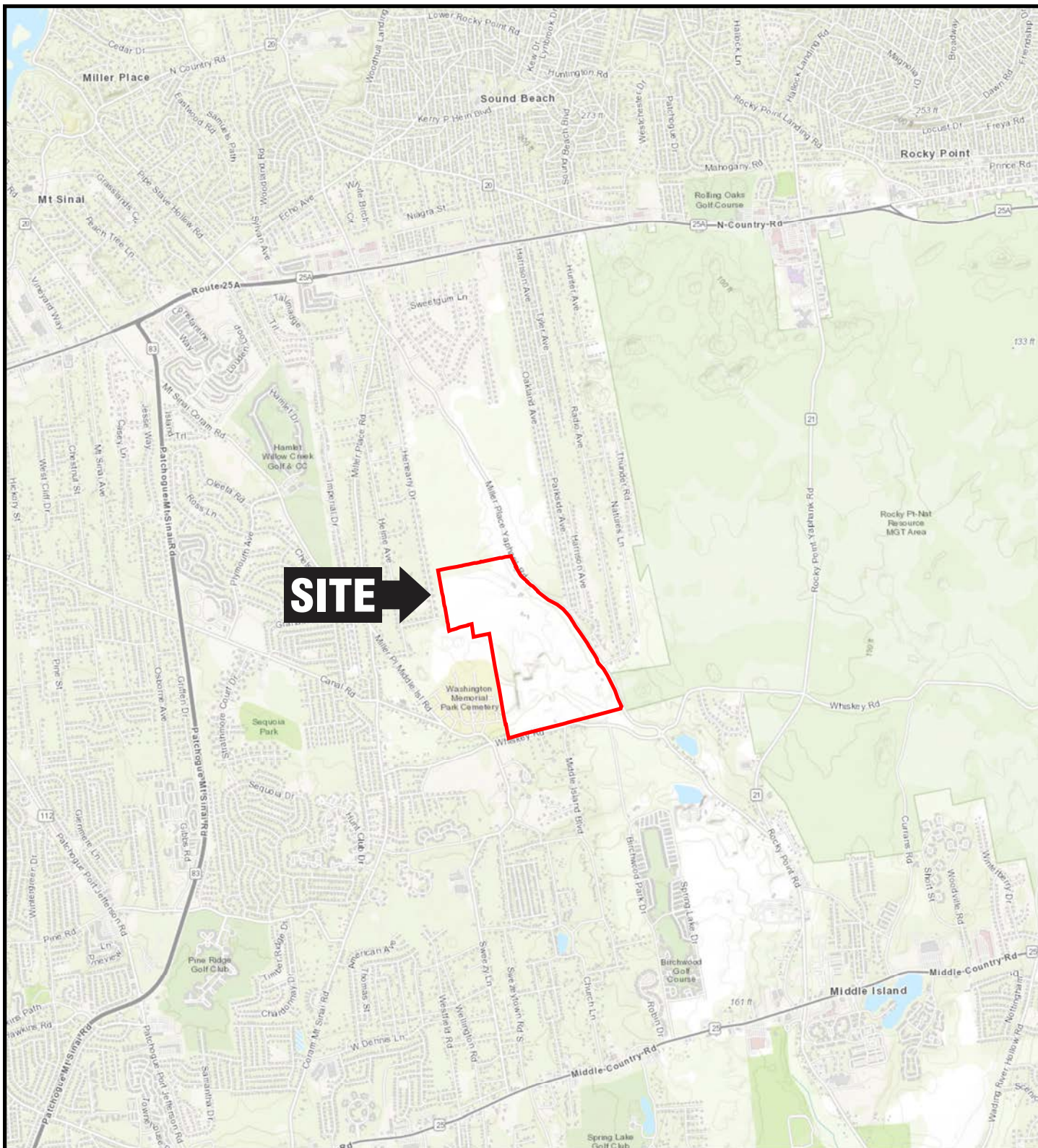


Robert Kovacs, P.G.
Principal Environmental Scientist

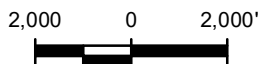
Fourth Quarter 2024 Quarterly Groundwater Monitoring Report
416 Miller Place-Yaphank Road, Miller Place, New York

FIGURES

1. Site Location Map
2. Site Plan
3. Groundwater Elevation Contour Map; Shallow Wells
4. Groundwater Elevation Contour Map; Deep Wells



QUADRANGLE LOCATION



Title:

SITE LOCATION MAP

416 MILLER PLACE-YAPHANK ROAD
MILLER PLACE, NEW YORK

Prepared for:

K&L GATES LLP

ROUX

Compiled by: V.S.

Date: 11/07/24

FIGURE

Prepared by: M.S.R.

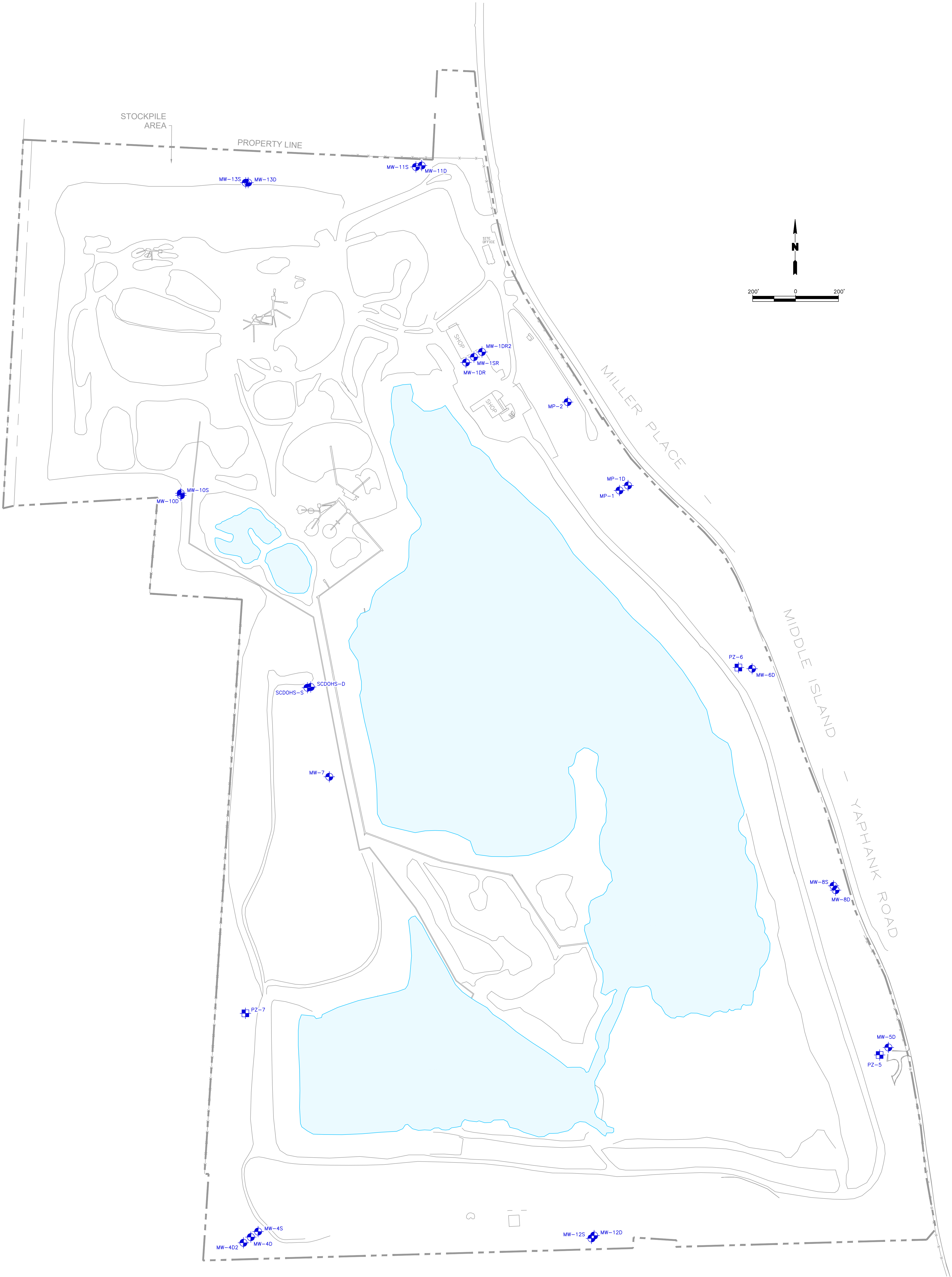
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Project Mgr: V.S.

Project: 2232.0006Y000

File: 2232.0006Y128.1.mxd

1



LEGEND

MW-1DR

MONITORING WELL LOCATION AND DESIGNATION

P-7

PIEZOMETER LOCATION AND DESIGNATION

CURRENT LAKES AND PONDS

- NOTES
1. PROPERTY LINE SURVEY BY: FRANCIS X. KARL, BLUE POINT, NY.
LAST REVISED OCT. 23, 2015

2. CONVEYOR BELT LAYOUT SCHEMATIC AS SHOWN.

3. CURRENT EXTENT OF SURFACE WATER ONSITE BASED ON GOOGLE
AERIAL IMAGE AS OF 2019.

Title:

SITE PLAN

416 MILLER PLACE-YAPHANK ROAD
MILLER PLACE, NEW YORK

Prepared for:

CORAM MATERIALS CORP.

ROUX

Compiled by: J.M.

Prepared by: B.H.C.

Project Mgr: J.M.

File: 2232.0006Y128.02.DWG

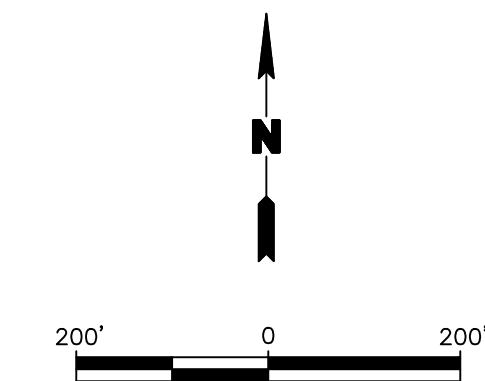
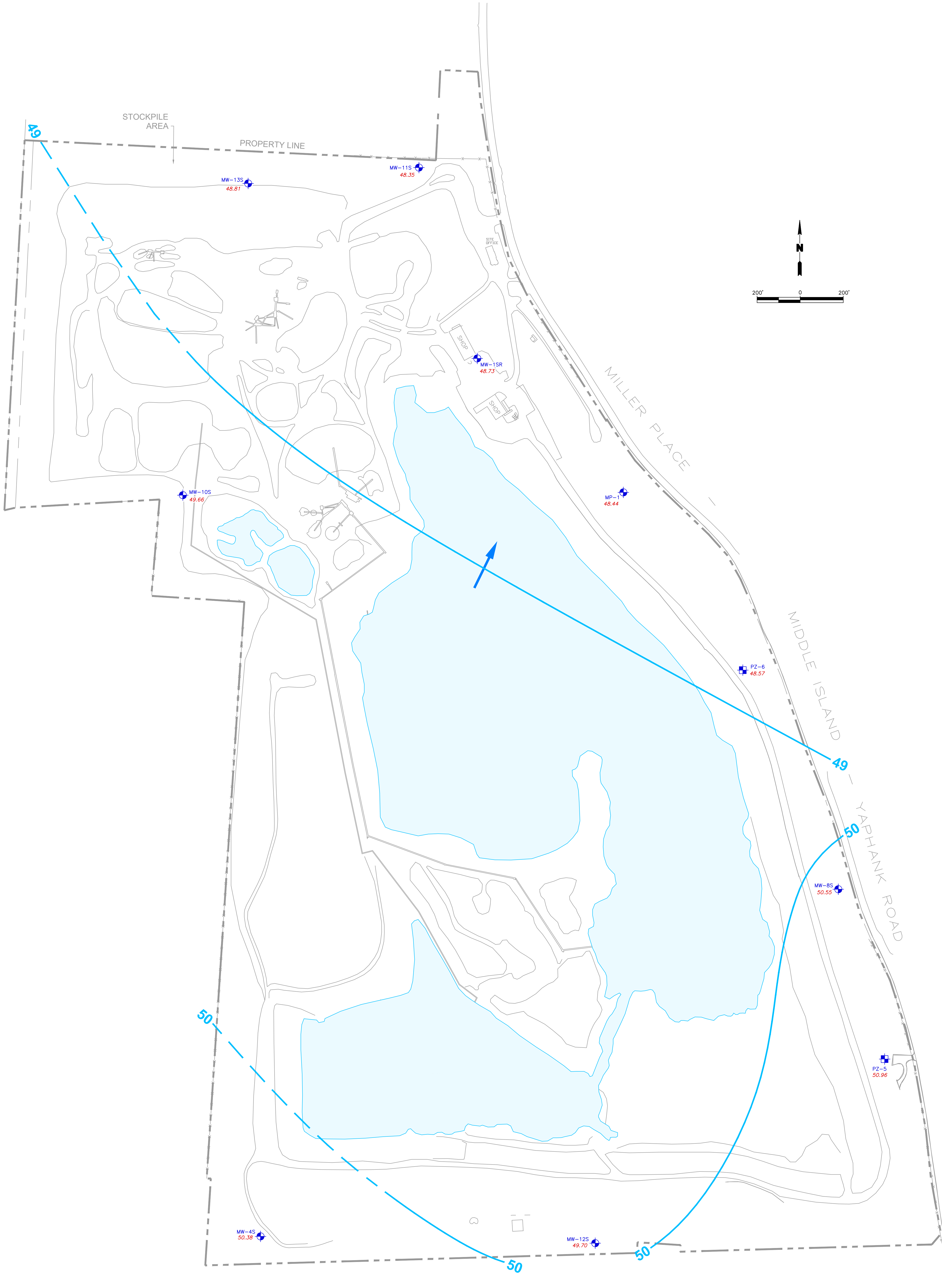
Date: 07NOV24

Scale: AS SHOWN

Project: 2232.0006Y003

FIGURE

2



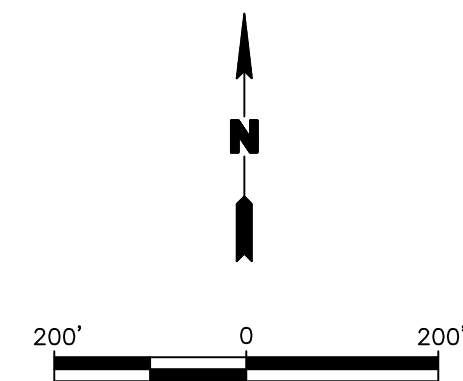
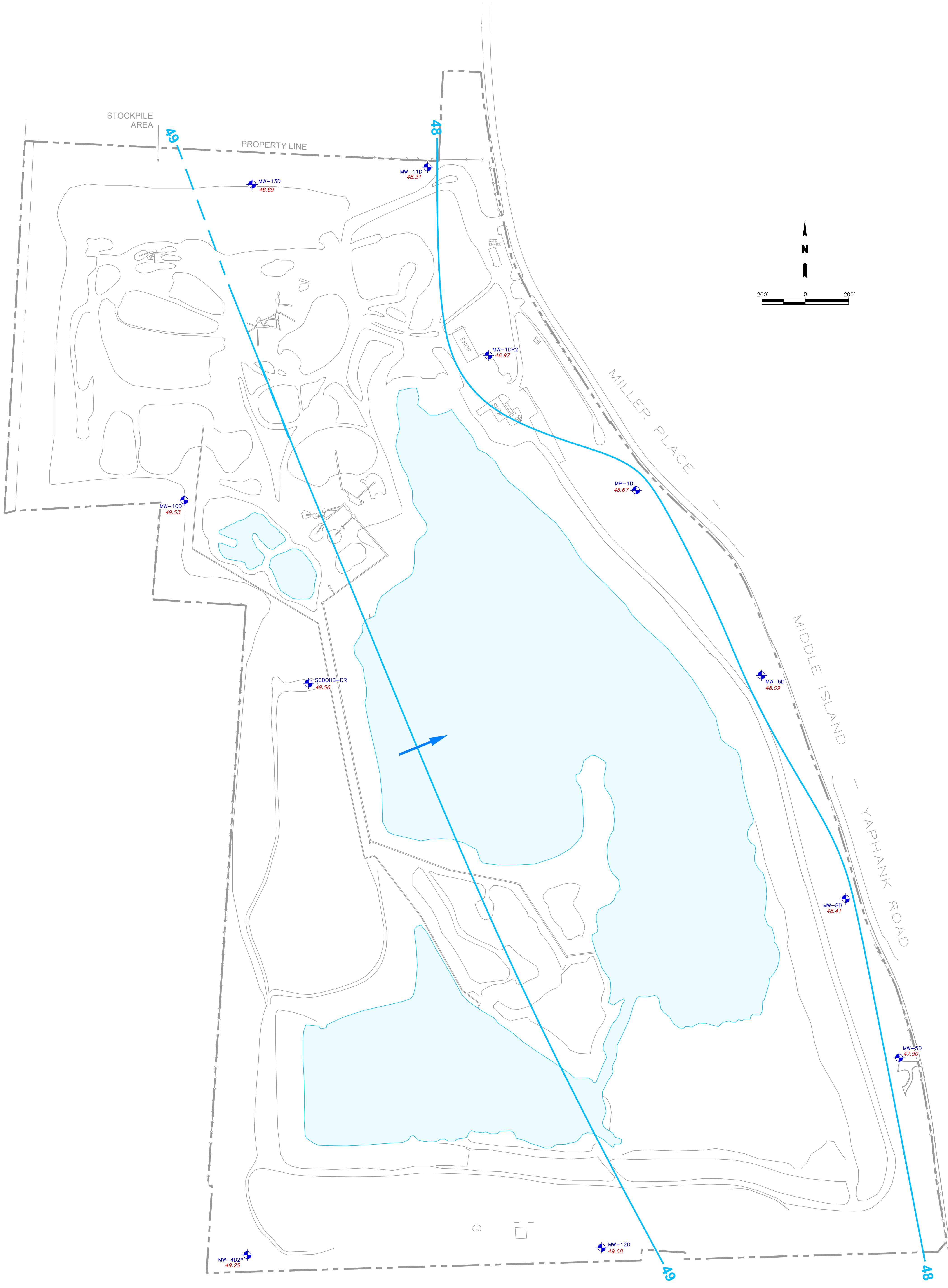
LEGEND

- MW-13S SHALLOW MONITORING WELL LOCATION AND DESIGNATION
- P-7 PIEZOMETER LOCATION AND DESIGNATION
- 48.81 GROUNDWATER ELEVATION, IN FEET RELATIVE TO NAVD88
- SURFACE WATER
- 50 LINE OF EQUAL WATER-LEVEL ELEVATION, IN FEET RELATIVE TO NAVD88 (DASHED WHERE ESTIMATED)
- GROUNDWATER FLOW DIRECTION

- NOTES**
- PROPERTY LINE SURVEY BY: FRANCIS X. KARL, BLUE POINT, NY. LAST REVISED OCT. 23, 2015
 - CONVEYOR BELT LAYOUT SCHEMATIC AS SHOWN.
 - CURRENT EXTENT OF SURFACE WATER ONSITE BASED ON GOOGLE AERIAL IMAGE AS OF 2019.

Title: GROUNDWATER ELEVATIONS AND CONTOUR MAP - SHALLOW WELLS			
DECEMBER 10, 2025			
416 MILLER PLACE-YAPHANK ROAD MILLER PLACE, NEW YORK			
Prepared for: CORAM MATERIALS CORP.			
ROUX	Compiled by: A.I.	Date: 27JAN25	FIGURE 3
	Prepared by: B.H.C.	Scale: AS SHOWN	
	Project Mgr: A.I.	Project: 2232.0006Y003	
	File: 2232.0006Y130.03.DWG		

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LEGEND

MW-13D

SHALLOW MONITORING WELL LOCATION AND DESIGNATION

48.89

GROUNDWATER ELEVATION, IN FEET RELATIVE TO NAVD88

*

DENOTES GROUNDWATER ELEVATION NOT USED DURING CONTOURING DUE TO ANOMALOUS READING

SURFACE WATER

49

LINE OF EQUAL WATER-LEVEL ELEVATION, IN FEET RELATIVE TO NAVD88 (DASHED WHERE ESTIMATED)

GROUNDWATER FLOW DIRECTION

- NOTES
1. PROPERTY LINE SURVEY BY: FRANCIS X. KARL, BLUE POINT, NY. LAST REVISED OCT. 23, 2015

2. CONVEYOR BELT LAYOUT SCHEMATIC AS SHOWN.

3. CURRENT EXTENT OF SURFACE WATER ONSITE BASED ON GOOGLE AERIAL IMAGE AS OF 2019.

Title:

GROUNDWATER ELEVATION AND CONTOUR MAP - DEEP WELLS
DECEMBER 10, 2024
416 MILLER PLACE-YAPHANK ROAD
MILLER PLACE, NEW YORK

Prepared for:

CORAM MATERIALS CORP.

ROUX

Compiled by: A.I.

Prepared by: B.H.C.

Project Mgr: A.I.

File: 2232.0006Y130.04.DWG

Date: 27JAN25

Scale: AS SHOWN

Project: 2232.0006Y003

FIGURE

4

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Fourth Quarter 2024 Quarterly Groundwater Monitoring Report
416 Miller Place-Yaphank Road, Miller Place, New York

TABLES

1. Summary of NYSDEC Groundwater Study at Long Island Mines Sampling Requirements
2. Summary of Groundwater Elevation Data, December 10, 2024
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8. Summary of Radionuclides in Groundwater

Notes Utilized Throughout Tables	
Groundwater Tables	
J -	Estimated Value
U -	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit
FD -	Duplicate
UG/L -	Micrograms per liter
MG CaCO ₃ /L -	Milligrams per liter of Calcium Carbonate
PCI/L -	Picocuries per liter
NYSDEC -	New York State Department of Environmental Conservation
USEPA -	United States Environmental Protection Agency
AWQSGVs -	Ambient Water-Quality Standards and Guidance Values
MCL -	Maximum Contaminant Levels
--	No NYSDEC AWQSGV or USEPA MCL available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs	

**Table 1. Summary of Groundwater Study at Long Island Mines Work Plan Sample Requirements
Coram Materials, 416 Miller Place-Yaphank Road, Miller Place, NY**

Required Monitoring Wells	Compound of Interest	Frequency of Sampling
MP-1	VOCs, SVOCs, TAL Metals Total and Dissolved, Cations/Anions, Total Dissolved Solids	Quarterly for 3 Years
MP-1D		
MW-1SR		
MW-1DR2		
MW-4S		
MW-4D2		
PZ-5		
MW-5D		
PZ-6		
MW-6D		
MW-8S		
MW-8D		
MW-10S		
MW-10D		
MW-11S		
MW-11D		
MW-12S		
MW-12D		
MW-13S		
MW-13D		
SCDOH-DR		
MP-1	PBCs, Pesticides, Herbicides	First two quarters of sampling as part of baseline evaluation ¹
MP-1D		
MW-1SR		
MW-1DR2		
MW-4S		
MW-4D2		
PZ-5		
MW-5D		
PZ-6		
MW-6D		
MW-8S		
MW-8D		
MW-10S		
MW-10D		
MW-11S		
MW-11D		
MW-12S		
MW-12D		
MW-13S		
MW-13D		
SCDOH-DR		
Two hydraulically upgradient and two hydraulically downgradient monitoring wells.	Isotopic Uranium and Thorium, Radium 226/228, Per- and Polyfluoroalkyn Substances (PFAS), 1,4- Dioxane	Two consecutive quarters as directed by NYSDEC.

Notes:

VOC - Volatile organic compounds

SVOC - semi-volatile organic compounds

TAL - target analyte list

PCB - polychlorinated biphenyls

1- At the direction of NYSDEC, baseline sampling was not conducted in the first quarter of sampling.

Table 2. Summary of Groundwater Elevation Data, September 16, 2024
Coram Materials, 416 Miller Place-Yaphank Road, Miller Place, NY

<u>Well ID</u>	December 10, 2024		
	<u>DTB (ft)</u>	<u>DTW (ft)</u>	<u>GWE(ft)</u>
MP-1	59.25	48.58	48.44
MP-1D	216.29	49.33	48.67
MW-1SR	30.86	24.86	48.73
MW-1DR2	190.44	26.54	46.97
MW-4S	76.10	69.79	50.38
MW-4D2	234.79	70.75	49.25
MW-5D	195.66	31.98	47.90
PZ-5	34.81	30.62	50.96
MW-6D	200.12	40.88	46.09
PZ-6	49.37	38.76	48.57
MW-8S	51.94	35.28	50.55
MW-8D	196.90	37.08	48.41
MW-10S	28.31	20.79	49.66
MW-10D	196.55	21.26	49.53
MW-11S	67.28	61.07	48.35
MW-11D	156.47	62.73	48.31
MW-12S	77.28	59.56	49.70
MW-12D	228.00	59.69	49.68
MW-13S	44.52	35.13	48.81
MW-13D	128.70	35.00	48.89
SCDOH-DR	136.76	45.84	49.56

Notes:

MPE - measuring point elevation (top of well casing)

DTB - depth to bottom

DTW - depth to water

GWE - groundwater elevation

ft - feet

Table 3. Summary of Volatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MP-1	MP-1D	MP-1D	MW-1DR2	MW-1SR	MW-4D2	MW-4S	MW-5D
Sample Date:			12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/16/2024	12/16/2024	12/13/2024
Normal Sample or Field Duplicate:			N	N	FD	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
1,1,1-Trichloroethane (TCA)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.41 J
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.75 J
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 3. Summary of Volatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MP-1	MP-1D	MP-1D	MW-1DR2	MW-1SR	MW-4D2	MW-4S	MW-5D
Sample Date:			12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/16/2024	12/16/2024	12/13/2024
Normal Sample or Field Duplicate:			N	N	FD	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	2 J	1.9 J	5 U	2 J	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.91
Toluene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 3. Summary of Volatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-6D	MW-8D	MW-8S	MW-10D	MW-10S	MW-11D	MW-11S	MW-12D
Sample Date:			12/10/2024	12/10/2024	12/10/2024	12/13/2024	12/13/2024	12/12/2024	12/12/2024	12/16/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
1,1,1-Trichloroethane (TCA)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	4.8
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	3.4
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.9
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 3. Summary of Volatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-6D	MW-8D	MW-8S	MW-10D	MW-10S	MW-11D	MW-11S	MW-12D
Sample Date:			12/10/2024	12/10/2024	12/10/2024	12/13/2024	12/13/2024	12/12/2024	12/12/2024	12/16/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	5 U	5 U	1.9 J	2 J	1.9 J	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.23 J
Toluene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 3. Summary of Volatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-12S	MW-13D	MW-13S	PZ-5	PZ-6	PZ-6	SCDOH-DR	EB_121224
Sample Date:			12/16/2024	12/12/2024	12/12/2024	12/13/2024	12/10/2024	12/10/2024	12/13/2024	12/12/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	FD	N	EB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
1,1,1-Trichloroethane (TCA)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 3. Summary of Volatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-12S	MW-13D	MW-13S	PZ-5	PZ-6	PZ-6	SCDOH-DR	EB_121224
Sample Date:			12/16/2024	12/12/2024	12/12/2024	12/13/2024	12/10/2024	12/10/2024	12/13/2024	12/12/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	FD	N	EB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	5 U	2 J	5 U	5 U	5 U	2 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 3. Summary of Volatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			EB-12162024	TRIP BLANK	TRIP BLANK	TRIP BLANK	TB-12162024
Sample Date:			12/16/2024	12/10/2024	12/10/2024	12/10/2024	12/16/2024
Normal Sample or Field Duplicate:			EB	TB	TB	TB	TB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units					
1,1,1-Trichloroethane (TCA)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1	UG/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	5 U	5 U	5 U	5 U	5 U
Benzene	1	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	UG/L	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon Disulfide	60	UG/L	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	UG/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 3. Summary of Volatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			EB-12162024	TRIP BLANK	TRIP BLANK	TRIP BLANK	TB-12162024
Sample Date:			12/16/2024	12/10/2024	12/10/2024	12/10/2024	12/16/2024
Normal Sample or Field Duplicate:			EB	TB	TB	TB	TB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units					
Isopropylbenzene (Cumene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m,p-Xylene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Acetate	--	UG/L	2 U	2 U	2 U	2 U	2 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	5 U	1.9 J	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	--	UG/L	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,2-Dichloroethene	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	--	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene (TCE)	5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Chloride	2	UG/L	1 U	1 U	1 U	1 U	1 U
Xylenes	5	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 4. Summary of Semivolatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MP-1	MP-1D	MP-1D	MW-1DR2	MW-1SR	MW-4D2	MW-4S	MW-5D
Sample Date:			12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/16/2024	12/16/2024	12/13/2024
Normal Sample or Field Duplicate:			N	N	FD	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
1,2,4,5-Tetrachlorobenzene	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L	NA	NA	NA	NA	NA	NA	0.139 U	NA
2,4,5-Trichlorophenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10	UG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	--	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-Methylphenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl Phenyl Ether	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-Methylphenol	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl Phenyl Ether	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	20	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Atrazine	7.5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(A)Anthracene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(A)Pyrene	0	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 4. Summary of Semivolatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MP-1	MP-1D	MP-1D	MW-1DR2	MW-1SR	MW-4D2	MW-4S	MW-5D
Sample Date:			12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/16/2024	12/16/2024	12/13/2024
Normal Sample or Field Duplicate:			N	N	FD	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
Benzo(K)Fluoranthene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Biphenyl (Diphenyl)	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroethoxy) Methane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bis(2-Chloroisopropyl) Ether	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Ethylhexyl) Phthalate	5	UG/L	3.5	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Caprolactam	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	3 J	10 U
Carbazole	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Diethyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Butyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Octylphthalate	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	0.04	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.02 J	0.8 U
Hexachlorobutadiene	0.5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Indeno(1,2,3-C,D)Pyrene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
M+P MethylPhenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
N-Nitrosodi-N-Propylamine	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	1	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.06 J	0.8 U
Phenanthrene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenol	1	UG/L	1 J	3.1 J	2.3 J	5 U	2.3 J	1.4 J	5.5	5 U
Pyrene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 4. Summary of Semivolatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-6D	MW-8D	MW-8S	MW-10D	MW-10S	MW-11D	MW-11S	MW-12D
Sample Date:			12/10/2024	12/10/2024	12/10/2024	12/13/2024	12/13/2024	12/12/2024	12/12/2024	12/16/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
1,2,4,5-Tetrachlorobenzene	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L	NA	NA	0.144 U	NA	0.15 U	NA	NA	NA
2,4,5-Trichlorophenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10	UG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	--	UG/L	0.1 U	0.05 J	0.1 U	0.1 U	0.1 U	0.13	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-Methylphenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl Phenyl Ether	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-Methylphenol	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl Phenyl Ether	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.14	0.1 U	0.1 U
Acenaphthylene	20	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Atrazine	7.5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(A)Anthracene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(A)Pyrene	0	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 4. Summary of Semivolatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-6D	MW-8D	MW-8S	MW-10D	MW-10S	MW-11D	MW-11S	MW-12D
Sample Date:			12/10/2024	12/10/2024	12/10/2024	12/13/2024	12/13/2024	12/12/2024	12/12/2024	12/16/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
Benzo(K)Fluoranthene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Biphenyl (Diphenyl)	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroethoxy) Methane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bis(2-Chloroisopropyl) Ether	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Ethylhexyl) Phthalate	5	UG/L	2.6 J	4.4	3 U	3 U	3 U	3 U	3 U	3 U
Caprolactam	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Diethyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Butyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Octylphthalate	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.04 J	0.1 U	0.1 U
Hexachlorobenzene	0.04	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Indeno(1,2,3-C,D)Pyrene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
M+P MethylPhenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	UG/L	0.1 U	0.41	0.1 U	0.1 U	0.1 U	1.9	0.1 U	0.1 U
Nitrobenzene	0.4	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
N-Nitrosodi-N-Propylamine	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	1	UG/L	0.8 U	0.8 U	0.8 U	0.08 J	0.08 J	0.8 U	0.8 U	0.8 U
Phenanthrene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.06 J	0.1 U	0.1 U
Phenol	1	UG/L	5 U	5 U	5 U	1.2 J	1.1 J	5 U	5 U	1.4 J
Pyrene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 4. Summary of Semivolatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-12S	MW-13D	MW-13S	PZ-5	PZ-6	PZ-6	SCDOH-DR	EB_121224
Sample Date:			12/16/2024	12/12/2024	12/12/2024	12/13/2024	12/10/2024	12/10/2024	12/13/2024	12/12/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	FD	N	EB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
1,2,4,5-Tetrachlorobenzene	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L	NA	NA	NA	NA	0.139 U	0.15 U	NA	NA
2,4,5-Trichlorophenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10	UG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	--	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Methylphenol (O-Cresol)	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-Methylphenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl Phenyl Ether	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-Methylphenol	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl Phenyl Ether	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	20	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Acetophenone	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Atrazine	7.5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(A)Anthracene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(A)Pyrene	0	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(B)Fluoranthene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(G,H,I)Perylene	--	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 4. Summary of Semivolatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-12S	MW-13D	MW-13S	PZ-5	PZ-6	PZ-6	SCDOH-DR	EB_121224
Sample Date:			12/16/2024	12/12/2024	12/12/2024	12/13/2024	12/10/2024	12/10/2024	12/13/2024	12/12/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	FD	N	EB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
Benzo(K)Fluoranthene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzyl Butyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Biphenyl (Diphenyl)	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroethoxy) Methane	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bis(2-Chloroisopropyl) Ether	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Ethylhexyl) Phthalate	5	UG/L	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Caprolactam	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenz(A,H)Anthracene	--	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dibenzofuran	--	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Diethyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Butyl Phthalate	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Octylphthalate	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	0.04	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Indeno(1,2,3-C,D)Pyrene	0.002	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Isophorone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
M+P MethylPhenol	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	UG/L	0.09 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrobenzene	0.4	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
N-Nitrosodi-N-Propylamine	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine	50	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	1	UG/L	0.8 U	0.8 U	0.8 U	0.08 J	0.8 U	0.8 U	0.08 J	0.8 U
Phenanthrene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenol	1	UG/L	5 U	0.87 J	5 U	5 U	0.94 J	5 U	5 U	5 U
Pyrene	50	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Table 4. Summary of Semivolatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			EB_12132024	EB-12162024
Sample Date:			12/13/2024	12/16/2024
Normal Sample or Field Duplicate:			EB	EB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units		
1,2,4,5-Tetrachlorobenzene	5	UG/L	NA	10 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L	0.139 U	NA
2,4,5-Trichlorophenol	--	UG/L	NA	5 U
2,4,6-Trichlorophenol	--	UG/L	NA	5 U
2,4-Dichlorophenol	5	UG/L	NA	5 U
2,4-Dimethylphenol	50	UG/L	NA	5 U
2,4-Dinitrophenol	10	UG/L	NA	20 U
2,4-Dinitrotoluene	5	UG/L	NA	5 U
2,6-Dinitrotoluene	5	UG/L	NA	5 U
2-Chloronaphthalene	10	UG/L	NA	0.2 U
2-Chlorophenol	--	UG/L	NA	2 U
2-Methylnaphthalene	--	UG/L	NA	0.1 U
2-Methylphenol (O-Cresol)	--	UG/L	NA	5 U
2-Nitroaniline	5	UG/L	NA	5 U
2-Nitrophenol	--	UG/L	NA	10 U
3,3'-Dichlorobenzidine	5	UG/L	NA	5 U
3-Nitroaniline	5	UG/L	NA	5 U
4,6-Dinitro-2-Methylphenol	--	UG/L	NA	10 U
4-Bromophenyl Phenyl Ether	--	UG/L	NA	2 U
4-Chloro-3-Methylphenol	--	UG/L	NA	2 U
4-Chloroaniline	5	UG/L	NA	5 U
4-Chlorophenyl Phenyl Ether	--	UG/L	NA	2 U
4-Nitroaniline	5	UG/L	NA	5 U
4-Nitrophenol	--	UG/L	NA	10 U
Acenaphthene	20	UG/L	NA	0.1 U
Acenaphthylene	20	UG/L	NA	0.1 U
Acetophenone	--	UG/L	NA	5 U
Anthracene	50	UG/L	NA	0.1 U
Atrazine	7.5	UG/L	NA	10 U
Benzaldehyde	--	UG/L	NA	5 U
Benzo(A)Anthracene	0.002	UG/L	NA	0.1 U
Benzo(A)Pyrene	0	UG/L	NA	0.1 U
Benzo(B)Fluoranthene	0.002	UG/L	NA	0.1 U
Benzo(G,H,I)Perylene	--	UG/L	NA	0.1 U

Table 4. Summary of Semivolatile Organic Compounds in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			EB_12132024	EB-12162024
Sample Date:			12/13/2024	12/16/2024
Normal Sample or Field Duplicate:			EB	EB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units		
Benzo(K)Fluoranthene	0.002	UG/L	NA	0.1 U
Benzyl Butyl Phthalate	50	UG/L	NA	5 U
Biphenyl (Diphenyl)	5	UG/L	NA	2 U
Bis(2-Chloroethoxy) Methane	5	UG/L	NA	5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	UG/L	NA	0.1 U
Bis(2-Chloroisopropyl) Ether	5	UG/L	NA	2 U
Bis(2-Ethylhexyl) Phthalate	5	UG/L	NA	3 U
Caprolactam	--	UG/L	NA	10 U
Carbazole	--	UG/L	NA	2 U
Chrysene	0.002	UG/L	NA	0.1 U
Dibenz(A,H)Anthracene	--	UG/L	NA	0.1 U
Dibenzofuran	--	UG/L	NA	2 U
Diethyl Phthalate	50	UG/L	NA	5 U
Dimethyl Phthalate	50	UG/L	NA	5 U
Di-N-Butyl Phthalate	50	UG/L	NA	5 U
Di-N-Octylphthalate	--	UG/L	NA	5 U
Fluoranthene	50	UG/L	NA	0.1 U
Fluorene	50	UG/L	NA	0.1 U
Hexachlorobenzene	0.04	UG/L	NA	0.8 U
Hexachlorobutadiene	0.5	UG/L	NA	0.5 U
Hexachlorocyclopentadiene	5	UG/L	NA	20 U
Hexachloroethane	5	UG/L	NA	0.8 U
Indeno(1,2,3-C,D)Pyrene	0.002	UG/L	NA	0.1 U
Isophorone	50	UG/L	NA	5 U
M+P MethylPhenol	--	UG/L	NA	5 U
Naphthalene	10	UG/L	NA	0.1 U
Nitrobenzene	0.4	UG/L	NA	2 U
N-Nitrosodi-N-Propylamine	--	UG/L	NA	5 U
N-Nitrosodiphenylamine	50	UG/L	NA	2 U
Pentachlorophenol	1	UG/L	NA	0.8 U
Phenanthrene	50	UG/L	NA	0.1 U
Phenol	1	UG/L	NA	5 U
Pyrene	50	UG/L	NA	0.1 U

Table 5. Summary of Metals in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MP-1	MP-1	MP-1D	MP-1D	MP-1D	MP-1D	MW-1DR2	MW-1DR2	MW-1SR	MW-1SR
Sample Date:			12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
Normal Sample or Field Duplicate:			N	N	N	N	FD	FD	N	N	N	N
Total or Dissolved:			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units										
Aluminum	--	UG/L	100 U	100 U	68.9 J	100 U	70.6 J	100 U	100 U	100 U	100 U	100 U
Antimony	3	UG/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Arsenic	25	UG/L	5 U	5 U	5 U	5 U	1.9 J	5 U	2.6 J	2.5 J	5 U	5 U
Barium	1000	UG/L	21	20.9	14.1	14.2	14.2	13.6	22.9	22.4	36.9	35.5
Beryllium	3	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	--	UG/L	21300	22700	17900	19500	17700	18700	9980	10600	23800	24800
Chromium, Total	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cobalt	--	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	2.4 J	2.9 J	20 U	20 U
Copper	200	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	300	UG/L	11.3 J	50 U	82.5	10.2 J	89.9	14 J	2830	2190	15.2 J	50 U
Lead	25	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Magnesium	35000	UG/L	6360	6840	9240	10300	9240	9770	4680	5050	4370	4580
Manganese	300	UG/L	10 U	10 U	2.7 J	1.9 J	2.7 J	1.8 J	34.1	35.2	10 U	10 U
Mercury	0.7	UG/L	0.2 U	0.2 U	1.2	0.88	1.03	0.74	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	UG/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Potassium	--	UG/L	2290 J	2270 J	1500 J	1500 J	1520 J	1440 J	1010 J	990 J	3100	2930
Selenium	10	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	UG/L	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U
Sodium	20000	UG/L	14000	13600	14700	14600	14900	14000	9110	8830	9820	9280
Thallium	0.5	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Zinc	2000	UG/L	5 U	5 U	5 U	5 U	5 U	3 J	5.5	5.8	5 U	5 U

Table 5. Summary of Metals in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-4D2	MW-4D2	MW-4S	MW-4S	MW-5D	MW-5D	MW-6D	MW-6D	MW-8D	MW-8D
Sample Date:			12/16/2024	12/16/2024	12/16/2024	12/16/2024	12/13/2024	12/13/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N	N	N
Total or Dissolved:			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units										
Aluminum	--	UG/L	100 U	100 U	100 U	100 U	328	100 U	68.4 J	100 U	135	100 U
Antimony	3	UG/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Arsenic	25	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Barium	1000	UG/L	15.5	15.8	43.7	45.5	54.8	47.4	12.3	11.9	31	31.5
Beryllium	3	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	--	UG/L	12200	11900	11000	10800	17900	15600	13100	13100	12600	13000
Chromium, Total	50	UG/L	3.4 J	2.7 J	10 U	10 U	10 U	10 U	2.9 J	2.1 J	2.8 J	2.1 J
Cobalt	--	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	200	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	300	UG/L	20.4 J	50 U	50 U	50 U	868	50 U	122	50 U	252	50 U
Lead	25	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Magnesium	35000	UG/L	5750	5960	3200	3280	7140	7820	6190	6090	5840	5810
Manganese	300	UG/L	10 U	10 U	7.2 J	7.6 J	19.8	10 U	15.5	7.8 J	4.5 J	10 U
Mercury	0.7	UG/L	0.2 U	0.2 U	0.2 U	0.09 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	UG/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Potassium	--	UG/L	993 J	1030 J	1690 J	1770 J	1490 J	1370 J	1180 J	1180 J	1290 J	1290 J
Selenium	10	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	UG/L	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U
Sodium	20000	UG/L	9120	9140	58000	58000	19900	19800	16600	16400	17700	17900
Thallium	0.5	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Zinc	2000	UG/L	5 U	5 U	5 U	5 U	2.7 J	5 U	3.3 J	2.6 J	6.1	5.6

Table 5. Summary of Metals in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-8S	MW-8S	MW-10D	MW-10D	MW-10S	MW-10S	MW-11D	MW-11D	MW-11S	MW-11S
Sample Date:			12/10/2024	12/10/2024	12/13/2024	12/13/2024	12/13/2024	12/13/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N	N	N
Total or Dissolved:			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units										
Aluminum	--	UG/L	381	100 U	43.5 J	100 U	100 U	100 U	127	100 U	100 U	100 U
Antimony	3	UG/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Arsenic	25	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Barium	1000	UG/L	48.8	46.2	5.3 J	5.1 J	36.1	33.6	27.9	26.3	26.1	26
Beryllium	3	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	--	UG/L	12800	13100	20900	19700	6330	5520	15400	16300	29600	31300
Chromium, Total	50	UG/L	3.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cobalt	--	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	200	UG/L	10 U	10 U	10 U	10 U	10 U	3.6 J	10 U	10 U	10 U	10 U
Iron	300	UG/L	492	50 U	120	62.9	11.7 J	50 U	3350	2870	13.2 J	50 U
Lead	25	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Magnesium	35000	UG/L	5660	5520	2630	2820	1900	1890	5940	6320	9790	10500
Manganese	300	UG/L	114	98.4	24.7	22.9	5.3 J	4.7 J	53.4	55.2	10 U	10 U
Mercury	0.7	UG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	UG/L	2.8 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Potassium	--	UG/L	1270 J	1210 J	786 J	810 J	1120 J	1200 J	973 J	917 J	1200 J	1170 J
Selenium	10	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	UG/L	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U
Sodium	20000	UG/L	7600	7780	6500	6420	4810	4840	8090	7730	4030	3880
Thallium	0.5	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Zinc	2000	UG/L	3.4 J	2.6 J	5 U	5 U	9.6	11.6	5 U	5 U	2.8 J	2.9 J

Table 5. Summary of Metals in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-12D	MW-12D	MW-12S	MW-12S	MW-13D	MW-13D	MW-13S	MW-13S	PZ-5	PZ-5
Sample Date:			12/16/2024	12/16/2024	12/16/2024	12/16/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/13/2024	12/13/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N	N	N
Total or Dissolved:			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units										
Aluminum	--	UG/L	52.1 J	100 U	55.6 J	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Antimony	3	UG/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Arsenic	25	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Barium	1000	UG/L	36.8	38.1	73.2	74	25.9	25.5	89.8	88.6	30.8	27
Beryllium	3	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	--	UG/L	13500	13500	8450	8350	10900	11400	99500	105000	38900	33300
Chromium, Total	50	UG/L	4.4 J	3.7 J	11.5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cobalt	--	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	200	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.5 J
Iron	300	UG/L	47.4 J	50 U	188	26.9 J	27.8 J	50 U	12.1 J	50 U	22.1 J	50 U
Lead	25	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Magnesium	35000	UG/L	5440	5660	2750	2710	5280	5580	22200	23600	7060	7610
Manganese	300	UG/L	10 U	10 U	35.6	27.8	10 U	10 U	10 U	10 U	10 U	10 U
Mercury	0.7	UG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	UG/L	4.3 J	3.5 J	10.5 J	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Potassium	--	UG/L	1110 J	1160 J	1400 J	1450 J	1170 J	1150 J	3090	3010	1510 J	1440 J
Selenium	10	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	UG/L	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U
Sodium	20000	UG/L	14500	14400	70000	67900	15300	14800	5370	5100	3350	3480
Thallium	0.5	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Zinc	2000	UG/L	9.9	10	9.8	8.6	5 U	5 U	5 U	2.5 J	3 J	4.1 J

Table 5. Summary of Metals in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			PZ-6	PZ-6	PZ-6	PZ-6	SCDOH-DR	SCDOH-DR	EB_121224	EB_121224	EB-12162024	EB-12162024
Sample Date:			12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/13/2024	12/13/2024	12/12/2024	12/12/2024	12/16/2024	12/16/2024
Normal Sample or Field Duplicate:			N	N	FD	FD	N	N	EB	EB	EB	EB
Total or Dissolved:			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units										
Aluminum	--	UG/L	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Antimony	3	UG/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Arsenic	25	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Barium	1000	UG/L	81.3	82	82.3	81.1	19.4	16.5	10 U	10 U	10 U	10 U
Beryllium	3	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	--	UG/L	96200	99000	98000	98600	16600	14700	100 U	100 U	100 U	100 U
Chromium, Total	50	UG/L	10 U	10 U	10 U	10 U	2.1 J	10 U	10 U	10 U	10 U	10 U
Cobalt	--	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	200	UG/L	3.4 J	3.9 J	3.4 J	3.6 J	10 U	10 U	10 U	10 U	10 U	10 U
Iron	300	UG/L	50 U	50 U	9.7 J	50 U	183	50 U	50 U	9.3 J	50 U	50 U
Lead	25	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Magnesium	35000	UG/L	17100	17200	17300	16900	6360	7010	100 U	100 U	100 U	100 U
Manganese	300	UG/L	46.5	57.5	55.4	48.4	111	1.9 J	10 U	10 U	10 U	10 U
Mercury	0.7	UG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	UG/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Potassium	--	UG/L	7080	7220	7290	7080	1680 J	1610 J	2500 U	2500 U	2500 U	2500 U
Selenium	10	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	UG/L	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U
Sodium	20000	UG/L	13300	13700	13600	13400	22600	23400	2000 U	2000 U	2000 U	2000 U
Thallium	0.5	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Zinc	2000	UG/L	5 U	5 U	5 U	5 U	7.7	2.6 J	5 U	5 U	5 U	5 U

Table 6. Summary of General Chemistry in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MP-1	MP-1D	MP-1D	MW-10D	MW-10S	MW-11D	MW-11S
Sample Date:			12/12/2024	12/12/2024	12/12/2024	12/13/2024	12/13/2024	12/12/2024	12/12/2024
Normal Sample or Field Duplicate:			N	N	FD	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units							
Alkalinity, Bicarbonate (As CaCO ₃)	--	MGCACO ₃ /L	57	49.6	49.1	41.8	17.7	35	100
Alkalinity, Carbonate (As CaCO ₃)	--	MGCACO ₃ /L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	--	MG/L	0.042 J	0.06	0.06	0.046 J	0.031 J	0.047 J	0.034 J
Chloride (As Cl)	250	MG/L	20	12	12	6.5	5.9	13	4.6
Fluoride	--	MG/L	0.07 J	0.05 J	0.05 J	0.06 J	0.2 U	0.05 J	0.03 J
Iodide (As I)	--	MG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrogen, Kjeldahl, Total	--	MG/L	0.13 J	0.124 J	0.157 J	0.153 J	0.125 J	0.121 J	0.222 J
Nitrogen, Nitrate (As N)	10	MG/L	1.02	0.677	0.659	0.1 U	0.826	0.314	0.48
Nitrogen, Nitrate-Nitrite	10	MG/L	1	0.68	0.66	0.1 U	0.82	0.31	0.48
Nitrogen, Nitrite	1	MG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.01 J	0.02 U
Phosphorus	--	MG/L	0.095	0.071	0.077	0.058	0.034	0.092	0.018 J
Sulfate (As SO ₄)	250	MG/L	17	38	36	19	2.3 J	29	6.9 J
Sulfide	0.05	MG/L	2 U	2 U	2 U	2 U	2 U	2 U	2
Total Dissolved Solids (Residue, Filterable)	--	MG/L	110	140	120	84	16	69	110
Total Nitrogen, All Forms, Calculated	--	MG/L	1	0.68	0.66	0.3 U	0.82	0.31	0.48
Total Suspended Solids	--	MG/L	5 U	5.1	11	5 U	5 U	6.7	5 U

Table 6. Summary of General Chemistry in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-12D	MW-12S	MW-13D	MW-13S	MW-1DR2	MW-1SR	MW-4D2	MW-4S
Sample Date:			12/16/2024	12/16/2024	12/12/2024	12/12/2024	12/12/2024	12/12/2024	12/16/2024	12/16/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units								
Alkalinity, Bicarbonate (As CaCO ₃)	--	MGCACO ₃ /L	26.7	16.9	20.3	265	30.9	59.7	25.8	28.7
Alkalinity, Carbonate (As CaCO ₃)	--	MGCACO ₃ /L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	--	MG/L	0.06	0.05 U	0.04 J	0.05 U	0.063	0.05 U	0.046 J	0.034 J
Chloride (As Cl)	250	MG/L	18	85	26	3.7	9	14	12	74
Fluoride	--	MG/L	0.03 J	0.03 J	0.02 J	0.04 J	0.03 J	0.07 J	0.04 J	0.02 J
Iodide (As I)	--	MG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrogen, Kjeldahl, Total	--	MG/L	0.3 U	0.138 J	0.075 J	0.077 J	0.3 U	0.076 J	0.3 U	0.3 U
Nitrogen, Nitrate (As N)	10	MG/L	4.38	2.4	2.37	5.06	1.55	1.5	2.16	3.5
Nitrogen, Nitrate-Nitrite	10	MG/L	4.4	2.4	2.4	5.1	1.5	1.5	2.2	3.5
Nitrogen, Nitrite	1	MG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Phosphorus	--	MG/L	0.022 J	0.037	0.022 J	0.092	0.015 J	0.028 J	0.071	0.034
Sulfate (As SO ₄)	250	MG/L	16	11	12	48	14	12	17	7.5 J
Sulfide	0.05	MG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total Dissolved Solids (Residue, Filterable)	--	MG/L	100	220	100	380	78	96	110	200
Total Nitrogen, All Forms, Calculated	--	MG/L	4.4	2.4	2.4	5.1	1.5	1.5	2.2	3.5
Total Suspended Solids	--	MG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 6. Summary of General Chemistry in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-5D	MW-6D	MW-8D	MW-8S	PZ-5	PZ-6	PZ-6
Sample Date:			12/13/2024	12/10/2024	12/10/2024	12/10/2024	12/13/2024	12/10/2024	12/10/2024
Normal Sample or Field Duplicate:			N	N	N	N	N	N	FD
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units							
Alkalinity, Bicarbonate (As CaCO ₃)	--	MGCACO ₃ /L	28.5	41.6	18.6	18.2	96.3	257	263
Alkalinity, Carbonate (As CaCO ₃)	--	MGCACO ₃ /L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromide	--	MG/L	0.061	0.05 U	0.044 J	0.055	0.033 J	0.041 J	0.041 J
Chloride (As Cl)	250	MG/L	26	15	29	12	2	15	15
Fluoride	--	MG/L	0.03 J	0.05 J	0.03 J	0.04 J	0.03 J	0.08 J	0.08 J
Iodide (As I)	--	MG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrogen, Kjeldahl, Total	--	MG/L	0.089 J	0.462	19.7	0.149 J	0.201 J	0.424	0.429
Nitrogen, Nitrate (As N)	10	MG/L	6.7	1.83	3.93	2.46	1.14	1.31	1.35
Nitrogen, Nitrate-Nitrite	10	MG/L	6.7	1.8	3.9	2.4	1.1	1.3	1.3
Nitrogen, Nitrite	1	MG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Phosphorus	--	MG/L	0.043	0.046	0.037	0.104	0.046	0.187	0.187
Sulfate (As SO ₄)	250	MG/L	16	17	14	20	14	30	40
Sulfide	0.05	MG/L	2 U	2 U	2 U	2 U	2 U	2	2 U
Total Dissolved Solids (Residue, Filterable)	--	MG/L	140	120	160	91	110	360	310
Total Nitrogen, All Forms, Calculated	--	MG/L	6.7	2.3	24	2.4	1.1	1.7	1.7
Total Suspended Solids	--	MG/L	14	5 U	11	59	5 U	5 U	5 U

Table 6. Summary of General Chemistry in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			SCDOH-DR	EB_121224	EB-12162024
Sample Date:			12/13/2024	12/12/2024	12/16/2024
Normal Sample or Field Duplicate:			N	EB	EB
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units			
Alkalinity, Bicarbonate (As CaCO3)	--	MGCACO3/L	22.7	2 U	2 U
Alkalinity, Carbonate (As CaCO3)	--	MGCACO3/L	2 U	2 U	2 U
Bromide	--	MG/L	0.045 J	0.05 U	0.05 U
Chloride (As Cl)	250	MG/L	40	1 U	1 U
Fluoride	--	MG/L	0.02 J	0.2 U	0.2 U
Iodide (As I)	--	MG/L	0.5 U	0.5 U	0.5 U
Nitrogen, Kjeldahl, Total	--	MG/L	0.3 U	0.144 J	0.3 U
Nitrogen, Nitrate (As N)	10	MG/L	3.47	0.1 U	0.1 U
Nitrogen, Nitrate-Nitrite	10	MG/L	3.5	0.1 U	0.1 U
Nitrogen, Nitrite	1	MG/L	0.05 U	0.05 U	0.05 U
Phosphorus	--	MG/L	0.018 J	0.031 U	0.015 J
Sulfate (As SO4)	250	MG/L	14	1.9 J	1.8 J
Sulfide	0.05	MG/L	2 U	2 U	2 U
Total Dissolved Solids (Residue, Filterable)	--	MG/L	120	10 U	10 U
Total Nitrogen, All Forms, Calculated	--	MG/L	3.5	0.3 U	0.3 U
Total Suspended Solids	--	MG/L	5 U	5 U	5 U

Table 7. Summary of Per- and Polyfluoroalkyl Substances in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-4S	MW-8S	MW-10S	PZ-6	PZ-6
Sample Date:			12/16/2024	12/10/2024	12/13/2024	12/10/2024	12/10/2024
Normal Sample or Field Duplicate:			N	N	N	N	FD
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units					
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	--	UG/L	0.00645 U	0.00618 U	0.00641 U	0.00646 U	0.0064 U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2Fts)	--	UG/L	0.00645 U	0.00618 U	0.00641 U	0.00646 U	0.0064 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	UG/L	0.0161 U	0.0154 U	0.016 U	0.0162 U	0.016 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	UG/L	0.0161 U	0.0154 U	0.016 U	0.0162 U	0.016 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	UG/L	0.0403 U	0.0386 U	0.0401 U	0.0404 U	0.04 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	UG/L	0.0403 U	0.0386 U	0.0401 U	0.0404 U	0.04 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	--	UG/L	0.00807 U	0.00772 U	0.00801 U	0.00808 U	0.008 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	UG/L	0.00645 U	0.00618 U	0.00641 U	0.00646 U	0.0064 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	--	UG/L	0.00645 U	0.00618 U	0.00641 U	0.00646 U	0.0064 U
N-ethyl perfluoro-1-octanesulfonamide	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
N-ethyl perfluorooctanesulfonamidoacetic acid	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
N-methyl perfluoro-1-octanesulfonamide	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	UG/L	0.00323 U	0.00309 U	0.0032 U	0.00323 U	0.0032 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	--	UG/L	0.00323 U	0.00309 U	0.0032 U	0.00323 U	0.0032 U
Perfluoro(2-Propoxypropanoic) Acid	--	UG/L	0.00645 U	0.00618 U	0.00641 U	0.00646 U	0.0064 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	--	UG/L	0.00323 U	0.00309 U	0.0032 U	0.00323 U	0.0032 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	--	UG/L	0.00323 U	0.00309 U	0.0032 U	0.00323 U	0.0032 U
Perfluorobutanesulfonic acid (PFBS)	--	UG/L	0.00322	0.000788 J	0.0016 U	0.00113 J	0.00102 J
Perfluorobutanoic Acid	--	UG/L	0.00427 J	0.00489 J	0.00196 J	0.00234 J	0.00205 J
Perfluorodecane Sulfonic Acid	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Perfluorodecanoic acid (PFDA)	--	UG/L	0.00161 U	0.00154 U	0.000216 J	0.00112 J	0.000976 J
Perfluorododecane sulfonate (PFDsDS)	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Perfluorododecanoic acid (PFDsA)	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Perfluoroheptane Sulfonate (PFHPS)	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00159 J	0.00173
Perfluoroheptanoic acid (PFHpA)	--	UG/L	0.0024	0.00219	0.000705 J	0.00114 J	0.00145 J
Perfluorohexanesulfonic acid (PFHxS)	--	UG/L	0.00214	0.00085 J	0.0002 J	0.00653	0.00657
Perfluorohexanoic acid (PFHxA)	--	UG/L	0.00404	0.00226	0.000729 J	0.00189	0.00158 J
Perfluorononanesulfonic Acid (PFNS)	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Perfluorononanoic acid (PFNA)	--	UG/L	0.000492 J	0.000618 J	0.00167	0.0123	0.0131
Perfluorooctane Sulfonamide (FOSA)	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Perfluorooctanesulfonic acid (PFOS)	0.0027	UG/L	0.00314	0.00141 J	0.00161	0.0485	0.0509
Perfluorooctanoic acid (PFOA)	0.0067	UG/L	0.00967	0.00364	0.00105 J	0.02	0.0205
Perfluoropentanesulfonic Acid (PFPeS)	--	UG/L	0.000226 J	0.00154 U	0.0016 U	0.000364 J	0.00032 J

Table 7. Summary of Per- and Polyfluoroalkyl Substances in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-4S	MW-8S	MW-10S	PZ-6	PZ-6
Sample Date:			12/16/2024	12/10/2024	12/13/2024	12/10/2024	12/10/2024
Normal Sample or Field Duplicate:			N	N	N	N	FD
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units					
Perfluoropentanoic Acid (PFPeA)	--	UG/L	0.00446	0.00154 J	0.000537 J	0.00179 J	0.00195 J
Perfluorotetradecanoic acid (PFTA)	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Perfluorotridecanoic Acid (PFTriA)	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Perfluoroundecanoic Acid (PFUnA)	--	UG/L	0.00161 U	0.00154 U	0.0016 U	0.00162 U	0.0016 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	UG/L	0.00645 U	0.00618 U	0.00641 U	0.00646 U	0.0064 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	UG/L	0.00645 U	0.00618 U	0.00641 U	0.00646 U	0.0064 U

Table 8. Summary of Radionuclides in Groundwater, 416 Miller Place-Yaphank Road, Miller Place, New York

Sample Designation:			MW-4S		MW-8S		MW-10S		PZ-6		PZ-6		EB 12132024 R	
Sample Date:			12/16/2024		12/10/2024		12/13/2024		12/10/2024		12/10/2024		12/13/2024	
Normal Sample or Field Duplicate:			N		N		N		N		FD		EB	
Parameter	NYSDEC Ambient Water Quality Standards and Guidance	Units	Result	Uncertainty	Result	Uncertainty	Result	Uncertainty	Result	Uncertainty	Result	Uncertainty	Result	Uncertainty
Radium-226	--	PCI/L	0.415	± 0.311	0.527	± 0.604	-0.171	± 0.643	-0.111	± 0.299	0.45	± 0.317	0.321	± 0.665
Radium-228	--	PCI/L	0.541	± 0.341	0.742	± 0.409	0.576	± 0.350	0.228	± 0.333	0.844	± 0.400	1.2	± 0.451
Radium-226/228 total	--	PCI/L	0.956	--	1.269	--	0.405	--	0.117	--	1.294	--	1.521	--
Thorium-228	--	PCI/L	0.171	± 0.210	0.081	± 0.117	0.076	± 0.193	0.162	± 0.198	0.029	± 0.111	0.053	± 0.174
Thorium-230	--	PCI/L	-0.008	± 0.113	-0.007	± 0.045	-0.016	± 0.121	-0.007	± 0.112	-0.008	± 0.048	0.046	± 0.109
Thorium-232	--	PCI/L	0.000	± 0.113	0.004	± 0.045	0.059	± 0.122	0.031	± 0.112	0	± 0.048	0.008	± 0.109
Uranium-234	--	PCI/L	0.181	± 0.147	-0.014	± 0.108	0.146	± 0.143	1.12	± 0.394	1.09	± 0.396	0.117	± 0.114
Uranium-235	--	PCI/L	0.091	± 0.131	0.039	± 0.141	0.189	± 0.168	0.195	± 0.173	0.196	± 0.183	0.221	± 0.180
Uranium-238	--	PCI/L	0.063	± 0.100	0.03	± 0.108	0.225	± 0.164	0.68	± 0.297	0.583	± 0.282	0.198	± 0.149

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APPENDICES

- A. Field Instrument Calibration Log
- B. Groundwater Low-Flow Purge Logs
- C. Laboratory Analytical Reports
- D. Field Notes
- E. Chains of Custody

Fourth Quarter 2024 Quarterly Groundwater Monitoring Report
416 Miller Place-Yaphank Road, Miller Place, New York

APPENDIX A

Field Instrument Calibration

Coram Materials, 416 Miller Place-Yaphank Road, Miller Place, New York,

Client: Coram Materials Corp./USC Atlantic, Inc. **Project Number:** 2232.0006Y005

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

[illegible]

Fourth Quarter 2024 Quarterly Groundwater Monitoring Report
416 Miller Place-Yaphank Road, Miller Place, New York

APPENDIX B

Groundwater Low-Flow Purge Logs

Well Sampling Data Form

Client:	US Concrete/Coram Materials	Project Number: 2232.0006Y004			
Site Location:	416 Miller Place-Yaphank Road, Miller Place, NY				
Well No:	SCDOH-DR	Weather: 27 F, Sunny			
Date:	12/13/2024	Purge Water Disposal: N/A			
Sampled By:	JC	Well Diameter / Type: 2" stick-up			
Depth of Well (ft):	136.76	Water Column (ft): 90.92			
Depth to Water(ft):	45.84	Volume of Water in Well (gal) 14.84			
Depth to Product (ft):	N/A				
well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611
Start Purging:	10:46	Purge Rate: 200 mL/min			
End Purging:	11:25	Volume of Water Removed (gal): 30			
Method of Purge:	Grundfos	Method of Sampling: Low-Flow			
Physical Appearance/ Comments:	Clear, no odor/sheen				
Samples Collected: (analyses / no. bottles)	VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions				
Time:	11:20	Laboratory : Alpha Analytical			

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV	Conductivity mS/m - S/m	Turbidity NTU	pH SU	Temperature C° - F°	Dissolved O ₂ mg/L
			(+/- 10 mV)	(w/in 3%)	(w/in %10)	(+/- 0.1)	(w/in 3%)	(w/in 10%)
10:56	45.81	200	418	0.241	0.0	5.71	11.68	8.52
11:01	45.81	200	420	0.240	0.0	5.69	11.74	7.67
11:06	45.81	200	420	0.239	0.0	5.62	11.68	7.40
11:11	45.81	200	419	0.239	0.0	5.63	11.64	7.37
11:16	45.81	200	419	0.238	0.0	5.62	11.65	7.35

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MP-1 Weather: 40 F, Sunny

Date: 12/12/2024 Purge Water Disposal: N/A

Sampled By: AI Well Diameter / Type: 2" stick-up

Depth of Well (ft): 59.25 Water Column (ft): 10.67

Depth to Water(ft): 48.58 Volume of Water in Well (gal): 1.74

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:02 Purge Rate: 200 mL/min

End Purging: 11:49 Volume of Water Removed (gal): 15

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/ Comments: Clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 11:40 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
11:15	48.45	200	270	0.235	11.5	5.94	19.21	1.90
11:20	48.45	200	268	0.235	4.1	6.11	19.27	1.70
11:25	48.45	200	270	0.235	7.0	6.18	19.32	1.60
11:30	48.45	200	272	0.235	0.0	6.22	19.35	1.54
11:35	48.45	200	275	0.234	0.0	6.24	19.36	1.48
11:40	48.45	200	279	0.232	0.0	6.25	19.36	1.47

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MP-1D Weather: 36 F, Sunny

Date: 12/12/2024 Purge Water Disposal: N/A

Sampled By: JC Well Diameter / Type: 2" stick-up

Depth of Well (ft): 216.29 Water Column (ft): 166.96

Depth to Water(ft): 49.33 Volume of Water in Well (gal): 27.25

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:04 Purge Rate: 300 mL/min

End Purging: 12:50 Volume of Water Removed (gal): 50

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: light brown to clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 12:05; MS/MSD, DUP at 12:00 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
11:29	49.16	300	379	0.226	195.0	6.04	12.8	0.00
11:34	49.16	300	365	0.226	151.0	5.81	12.83	0.00
11:39	49.16	300	338	0.226	100.0	5.83	12.83	0.00
11:44	49.16	300	327	0.226	76.4	5.85	12.85	0.00
11:49	49.16	300	315	0.226	50.4	5.86	12.87	0.00
11:54	49.16	300	304	0.226	31.2	5.85	12.85	0.00
11:59	49.16	300	298	0.226	18.2	5.86	12.85	0.00
12:04	49.16	300	297	0.226	7.6	5.86	12.89	0.00

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-1SR Weather: 36 F, Sunny

Date: 12/12/2024 Purge Water Disposal: N/A

Sampled By: AI Well Diameter / Type: 2" stick-up

Depth of Well (ft): 30.86 Water Column (ft): 6.00

Depth to Water(ft): 24.86 Volume of Water in Well (gal) 0.98

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:18 Purge Rate: 200 mL/min

End Purging: 9:56 Volume of Water Removed (gal): 5

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: Clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 9:50 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
9:25	24.84	200	401	0.205	10.6	6.08	16.22	5.04
9:30	24.86	200	395	0.205	7.3	6.16	16.22	4.87
9:35	24.86	200	412	0.201	4.7	6.48	16.1	5.14
9:40	24.86	200	398	0.205	0.2	6.16	16.27	4.71
9:45	24.86	200	391	0.204	0.0	6.28	16.22	5.02
9:50	24.86	200	389	0.204	0.0	6.32	16.24	4.74

Well Sampling Data Form

Client:	US Concrete/Coram Materials	Project Number:	2232.0006Y004		
Site Location:	416 Miller Place-Yaphank Road, Miller Place, NY				
Well No:	MW-1DR2	Weather:	32 F, Sunny		
Date:	12/12/2024	Purge Water Disposal:	N/A		
Sampled By:	JC	Well Diameter / Type:	2" stick-up		
Depth of Well (ft):	190.44	Water Column (ft):	163.90		
Depth to Water(ft):	26.54	Volume of Water in Well (gal)	26.75		
Depth to Product (ft):	N/A				
well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611
Start Purging:	9:16	Purge Rate:	300 mL/min		
End Purging:	10:25	Volume of Water Removed (gal):	75		
Method of Purge:	Grundfos	Method of Sampling:	Low-Flow		
Physical Appearance/ Comments:	bright orange to partly cloudy				
Samples Collected: (analyses / no. bottles)	VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions				
Time:	10:10	Laboratory :	Alpha Analytical		

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV	Conductivity mS/m - S/m	Turbidity NTU	pH SU	Temperature C° - F°	Dissolved O ₂ mg/L
			(+/- 10 mV)	(w/in 3%)	(w/in %10)	(+/- 0.1)	(w/in 3%)	(w/in 10%)
9:41	27.39	300	272	0.146	62.6	5.59	12.77	0.10
9:46	27.41	300	240	0.149	35.7	5.61	12.76	0.10
9:51	27.41	300	230	0.149	16.7	5.59	12.74	0.10
9:56	27.43	300	223	0.149	8.1	5.58	12.74	0.10
10:01	27.46	300	220	0.148	4.5	5.57	12.73	0.10
10:06	27.44	300	218	0.147	0.7	5.58	12.72	0.10

Well Sampling Data Form

Client:	US Concrete/Coram Materials	Project Number:	2232.0006Y004		
Site Location:	416 Miller Place-Yaphank Road, Miller Place, NY				
Well No:	MW-4S	Weather:	40 F, Rain		
Date:	12/16/2024	Purge Water Disposal:	N/A		
Sampled By:	AI	Well Diameter / Type:	2" stick-up		
Depth of Well (ft):	76.10	Water Column (ft):	6.31		
Depth to Water(ft):	69.79	Volume of Water in Well (gal)	1.03		
Depth to Product (ft):	N/A				
well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611
Start Purging:	9:48	Purge Rate:	250 mL/min		
End Purging:	11:07	Volume of Water Removed (gal):	10		
Method of Purge:	Grundfos	Method of Sampling:	Low-Flow		
Physical Appearance/ Comments:	Clear				
Samples Collected: (analyses / no. bottles)	VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions, PFAS, radionuclides				
Time:	11:00	Laboratory :	Alpha Analytical		

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
10:35	69.89	250	366	0.367	10.6	5.17	12.45	12.10
10:40	69.89	250	382	0.367	0.0	5.35	12.59	9.10
10:45	69.89	250	395	0.367	0.0	5.44	12.62	8.94
10:50	69.89	250	404	0.367	0.0	5.44	12.62	8.89
10:55	69.89	250	412	0.367	0.0	5.43	12.62	8.85
11:00	69.89	250	417	0.367	0.0	5.42	12.61	8.79

Well Sampling Data Form

Client:	US Concrete/Coram Materials	Project Number:	2232.0006Y004		
Site Location:	416 Miller Place-Yaphank Road, Miller Place, NY				
Well No:	MW-4D2	Weather:	42 F, Rain		
Date:	12/16/2024	Purge Water Disposal:	N/A		
Sampled By:	AI	Well Diameter / Type:	2" stick-up		
Depth of Well (ft):	234.79	Water Column (ft):	164.04		
Depth to Water(ft):	70.75	Volume of Water in Well (gal)	26.77		
Depth to Product (ft):	N/A				
well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611
Start Purging:	11:20	Purge Rate:	300 mL/min		
End Purging:	12:05	Volume of Water Removed (gal):	75		
Method of Purge:	Grundfos	Method of Sampling:	Low-Flow		
Physical Appearance/ Comments:	Clear				
Samples Collected: (analyses / no. bottles)	VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions				
Time:	11:50	Laboratory :	Alpha Analytical		

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV	Conductivity mS/m - S/m	Turbidity NTU	pH SU	Temperature C° - F°	Dissolved O ₂ mg/L
			(+/- 10 mV)	(w/in 3%)	(w/in %10)	(+/- 0.1)	(w/in 3%)	(w/in 10%)
11:25	70.61	300	424	0.112	0.0	5.24	12.03	8.73
11:30	70.61	300	432	0.113	0.0	5.21	12.03	7.51
11:35	70.61	300	436	0.134	0.0	5.33	12.02	6.93
11:40	70.61	300	435	1.470	0.0	5.46	12.00	6.64
11:45	70.61	300	436	0.151	0.0	5.41	12.00	6.56
11:50	70.61	300	436	0.153	0.0	5.39	12.00	6.57

Well Sampling Data Form

Client:	<u>US Concrete/Coram Materials</u>		Project Number: <u>2232.0006Y004</u>		
Site Location:	<u>416 Miller Place-Yaphank Road, Miller Place, NY</u>				
Well No:	<u>PZ-5</u>	Weather: <u>27 F, Sunny</u>			
Date:	<u>12/13/2024</u>	Purge Water Disposal: <u>N/A</u>			
Sampled By:	<u>JC</u>	Well Diameter / Type: <u>2" stick-up</u>			
Depth of Well (ft):	<u>34.81</u>	Water Column (ft):	<u>4.19</u>		
Depth to Water(ft):	<u>30.62</u>	Volume of Water in Well (gal)	<u>0.68</u>		
Depth to Product (ft):	<u>N/A</u>				
well diameter:	<u>1 in</u>	<u>2 in</u>	<u>4 in</u>	<u>6 in</u>	<u>8 in</u>
gallons per foot:	<u>0.041</u>	<u>0.163</u>	<u>0.653</u>	<u>1.469</u>	<u>2.611</u>
Start Purging:	<u>7:43</u>	Purge Rate:		<u>200 mL/min</u>	
End Purging:	<u>8:30</u>	Volume of Water Removed (gal):		<u>3</u>	
Method of Purge:	<u>Grundfos</u>	Method of Sampling:		<u>Low-Flow</u>	
Physical Appearance/ Comments:	<u>Clear</u>				
Samples Collected: (analyses / no. bottles)	<u>VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions</u>				
Time:	<u>8:20</u>	Laboratory : <u>Alpha Analytical</u>			

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
7:49	30.49	200	398	0.234	5.1	4.93	13.05	7.88
7:54	30.49	200	435	0.233	5.3	5.67	15.03	6.70
7:59	30.49	200	435	0.233	5.4	5.67	15.03	4.72
8:04	30.49	200	435	0.234	3.7	5.69	15.05	4.66
8:09	30.50	200	436	0.238	0.0	5.74	15.09	4.46
8:14	30.50	200	436	0.238	0.0	5.76	15.1	4.44

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-5D Weather: 28 F, Cloudy

Date: 12/13/2024 Purge Water Disposal: N/A

Sampled By: JC Well Diameter / Type: 2" stick-up

Depth of Well (ft): 195.66 Water Column (ft): 163.68

Depth to Water(ft): 31.98 Volume of Water in Well (gal): 26.71

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 9:00 Purge Rate: 300 mL/min

End Purging: 10:00 Volume of Water Removed (gal): 25

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: cloudy brown to clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 9:45 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
9:18	31.95	300	423	0.230	101.0	5.56	10.92	6.50
9:23	31.95	300	421	0.228	79.1	5.63	10.97	5.52
9:28	31.95	300	418	0.228	49.3	5.65	10.97	5.36
9:33	31.95	300	417	0.229	30.5	5.65	10.95	5.26
9:38	31.95	300	417	0.229	26.5	5.65	10.96	5.27
9:43	31.95	300	416	0.229	16.9	5.66	10.96	5.26

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: PZ-6 Weather: 50 F, Cloudy

Date: 12/10/2024 Purge Water Disposal: N/A

Sampled By: AI Well Diameter / Type: 2" stick-up

Depth of Well (ft): 49.37 Water Column (ft): 10.61

Depth to Water(ft): 38.76 Volume of Water in Well (gal) 1.73

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 12:23 Purge Rate: 250 mL/min

End Purging: 13:40 Volume of Water Removed (gal): 30

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: cloudy to clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions, EC,
(analyses / no. bottles) radionuclides, PFAs

Time: 13:18, MS/MSD, and DUP at 1200 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
12:48	38.83	250	387	0.603	14.2	6.45	14.86	1.22
12:53	38.83	250	382	0.609	7.6	6.47	14.87	1.09
12:58	38.83	250	374	0.610	2.2	6.57	14.93	1.05
13:03	38.83	250	370	0.615	5.2	6.60	14.93	0.95
13:08	38.83	250	366	0.613	0.3	6.58	14.93	0.99
13:13	38.83	250	363	0.617	0.0	6.60	14.91	0.88
13:18	38.83	250	361	0.617	0.0	6.61	14.91	0.86

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-6D Weather: 50 F, Cloudy

Date: 12/10/2024 Purge Water Disposal: N/A

Sampled By: JC Well Diameter / Type: 2" stick-up

Depth of Well (ft): 200.12 Water Column (ft): 159.24

Depth to Water(ft): 40.88 Volume of Water in Well (gal): 25.99

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 12:19 Purge Rate: 300 mL/min

End Purging: 13:17 Volume of Water Removed (gal): 75

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: Partly cloudy to clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 1310 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
12:39	40.72	300	309	0.187	65.7	6.04	13.5	3.57
12:44	40.70	300	295	0.187	19.7	6.12	13.54	3.57
12:49	40.71	300	291	0.188	10.3	6.13	13.55	3.29
12:54	40.71	300	288	0.188	1.4	6.15	13.55	3.19
12:59	40.70	300	287	0.188	0.0	6.17	13.52	3.20
13:04	40.71	300	287	0.188	0.0	6.15	13.53	3.17

Well Sampling Data Form

Client:	US Concrete/Coram Materials	Project Number:	2232.0006Y004		
Site Location:	416 Miller Place-Yaphank Road, Miller Place, NY				
Well No:	MW-8S	Weather:	50 F, Cloudy		
Date:	12/10/2024	Purge Water Disposal:	N/A		
Sampled By:	AI	Well Diameter / Type:	2" stick-up		
Depth of Well (ft):	51.94	Water Column (ft):	16.66		
Depth to Water(ft):	35.28	Volume of Water in Well (gal)	2.72		
Depth to Product (ft):	N/A				
well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611
Start Purging:	1023	Purge Rate:	200 mL/min		
End Purging:	1130	Volume of Water Removed (gal):	8		
Method of Purge:	Grundfos	Method of Sampling:	Low-Flow		
Physical Appearance/ Comments:	cloudy to clear				
Samples Collected: (analyses / no. bottles)	VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions, EC, radionuclides, PFAS				
Time:	11:10	Laboratory :	Alpha Analytical		

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
10:40	35.91	200	274	0.134	49.0	5.48	14.61	4.14
10:45	35.9	200	273	0.137	31.2	5.78	14.64	3.70
10:50	35.89	200	273	0.140	17.4	5.86	14.66	3.53
10:55	35.89	200	274	0.143	11.1	5.85	14.66	3.26
11:00	35.89	200	279	0.145	6.9	5.80	14.66	3.13
11:05	35.89	200	283	0.149	5.4	5.82	14.67	2.98
11:10	35.89	200	286	0.151	5.7	5.79	14.67	3.00

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-8D Weather: 50 F, Cloudy

Date: 12/10/2024 Purge Water Disposal: N/A

Sampled By: JC Well Diameter / Type: 2" stick-up

Depth of Well (ft): 196.90 Water Column (ft): 159.82

Depth to Water(ft): 37.08 Volume of Water in Well (gal): 26.08

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 10:18 Purge Rate: 300 mL/min

End Purging: 11:16 Volume of Water Removed (gal): 75

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: cloudy brown to clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 1105 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
10:35	37.19	300	387	0.207	28.0	5.55	11.72	6.51
10:40	37.18	300	393	0.209	13.7	5.54	11.76	6.50
10:45	37.14	300	397	0.207	30.1	5.53	11.74	6.04
10:50	37.13	300	397	0.206	4.8	5.53	11.76	5.85
10:55	37.13	300	399	0.205	4.1	5.53	11.76	5.91
11:00	37.13	300	401	0.205	3.8	5.55	11.78	5.93

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-10S Weather: 32 F, Sunny

Date: 12/13/2024 Purge Water Disposal: N/A

Sampled By: AI Well Diameter / Type: 2" stick-up

Depth of Well (ft): 28.31 Water Column (ft): 7.54

Depth to Water(ft): 20.77 Volume of Water in Well (gal) 1.23

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 12:00 Purge Rate: 200 mL/min

End Purging: 12:55 Volume of Water Removed (gal): 15

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: Light brown/ clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions, EC,
PFAS, radionuclides

Time: 12:43 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
12:18	20.77	200	430	0.073	10.2	5.22	12.65	9.06
12:23	20.72	200	446	0.072	7.9	4.94	12.69	7.27
12:28	20.68	200	448	0.072	3.0	4.94	12.64	7.05
12:33	20.68	200	449	0.070	0.0	4.91	12.77	6.84
12:38	20.68	200	448	0.069	0.0	4.96	12.67	6.88
12:43	20.68	200	449	0.069	0.0	4.95	12.55	6.61

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-10D Weather: 32 F, Sunny

Date: 12/13/2024 Purge Water Disposal: N/A

Sampled By: JC Well Diameter / Type: 2" stick-up

Depth of Well (ft): 196.55 Water Column (ft): 175.40

Depth to Water(ft): 21.15 Volume of Water in Well (gal): 28.63

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 11:51 Purge Rate: 250 mL/min

End Purging: 12:34 Volume of Water Removed (gal): 50

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: Clear

Samples Collected: VOCs +MTBE, Total Metals, Dissolved Metals
(analyses / no. bottles)

Time: 9:25 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV	Conductivity mS/m - S/m	Turbidity NTU	pH SU	Temperature C° - F°	Dissolved O ₂ mg/L
			(+/- 10 mV)	(w/in 3%)	(w/in %10)	(+/- 0.1)	(w/in 3%)	(w/in 10%)
11:56	21.61	250	316	0.219	77.2	8.10	12.13	1.70
12:01	21.61	250	331	0.190	21.2	7.28	12.09	0.00
12:06	21.62	250	239	0.170	5.6	6.82	12.16	0.00
12:11	21.61	250	227	0.171	5.2	6.80	12.13	0.00
12:16	21.61	250	191	0.169	2.4	6.67	12.17	0.00
12:21	21.61	250	152	0.167	0.0	6.52	12.19	0.00
12:26	21.61	250	137	0.165	0.0	6.50	12.18	0.00

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-11S Weather: 50 F, Cloudy

Date: 12/12/2024 Purge Water Disposal: N/A

Sampled By: JC Well Diameter / Type: 2" stick-up

Depth of Well (ft): 67.28 Water Column (ft): 6.17

Depth to Water(ft): 61.11 Volume of Water in Well (gal): 1.01

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 7:47 Purge Rate: 200 mL/min

End Purging: 8:32 Volume of Water Removed (gal): 15

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: cloudy to clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 8:25 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
7:55	61.11	200	393	0.246	5.7	5.09	12.78	6.82
8:00	61.11	200	409	0.224	6.3	5.12	12.81	5.54
8:05	61.10	200	413	0.224	5.1	5.14	12.81	5.31
8:10	61.10	200	417	0.224	1.6	5.16	12.86	5.20
8:15	61.10	200	420	0.224	0.0	5.19	12.86	5.06
8:20	61.10	200	421	0.224	0.0	5.20	12.86	5.06

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-11D Weather: 50 F, Cloudy

Date: 12/12/2024 Purge Water Disposal: N/A

Sampled By: AI Well Diameter / Type: 2" stick-up

Depth of Well (ft): 156.47 Water Column (ft): 93.74

Depth to Water(ft): 62.73 Volume of Water in Well (gal): 15.30

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:04 Purge Rate: 300 mL/min

End Purging: 8:48 Volume of Water Removed (gal): 50

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: cloudy brown to clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 8:42 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
8:17	63.81	300	286	0.188	70.7	5.08	13.04	0.35
8:22	63.79	300	212	0.187	44.7	5.72	13.26	0.00
8:27	63.8	300	168	0.187	28.8	5.72	13.27	0.00
8:32	63.8	300	131	0.186	14.1	5.70	13.24	0.00
8:37	63.8	300	107	0.186	5.6	5.69	13.30	0.00
8:42	63.8	300	97	0.186	3.3	5.69	13.30	0.00

Well Sampling Data Form

Client: US Concrete/Coram Materials **Project Number:** 2232.0006Y004

Site Location: 416 Miller Place-Yaphank Road, Miller Place, NY

Well No: MW-12S Weather: 40 F, Rain

Date: 12/13/2024 Purge Water Disposal: N/A

Sampled By: AI Well Diameter / Type: 2" stick-up

Depth of Well (ft): 77.28 Water Column (ft): 17.78

Depth to Water(ft): 59.50 Volume of Water in Well (gal): 2.90

Depth to Product (ft): N/A

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 8:14 Purge Rate: 200 mL/min

End Purging: 9:00 Volume of Water Removed (gal): 10

Method of Purge: Grundfos Method of Sampling: Low-Flow

Physical Appearance/
Comments: Clear

Samples Collected: VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions
(analyses / no. bottles)

Time: 8:45 Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O ₂ mg/L (w/in 10%)
8:20	59.53	200	364	0.371	90.2	6.30	11.33	9.36
8:25	59.54	200	337	0.374	37.2	6.35	11.52	8.42
8:30	59.54	200	337	0.379	1826.0	6.62	11.61	8.01
8:35	59.53	200	340	0.372	8.4	6.41	11.71	7.97
8:40	59.51	200	341	0.369	3.6	6.34	11.76	7.98
8:45	59.51	200	349	0.358	0.7	6.36	11.76	7.99

Well Sampling Data Form

Client:	US Concrete/Coram Materials	Project Number:	2232.0006Y004		
Site Location:	416 Miller Place-Yaphank Road, Miller Place, NY				
Well No:	MW-12D	Weather:	40 F, Rain		
Date:	12/16/2024	Purge Water Disposal:	N/A		
Sampled By:	AI	Well Diameter / Type:	2" stick-up		
Depth of Well (ft):	229.49	Water Column (ft):	169.90		
Depth to Water(ft):	59.59	Volume of Water in Well (gal)	27.73		
Depth to Product (ft):	N/A				
well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611
Start Purging:	9:02	Purge Rate:	300 mL/min		
End Purging:	9:50	Volume of Water Removed (gal):	75		
Method of Purge:	Grundfos	Method of Sampling:	Low-Flow		
Physical Appearance/ Comments:	Clear				
Samples Collected: (analyses / no. bottles)	VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions				
Time:	9:33	Laboratory :	Alpha Analytical		

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV	Conductivity mS/m - S/m	Turbidity NTU	pH SU	Temperature C° - F°	Dissolved O ₂ mg/L
			(+/- 10 mV)	(w/in 3%)	(w/in %10)	(+/- 0.1)	(w/in 3%)	(w/in 10%)
9:08	59.97	300	444	0.169	74.9	5.31	10.46	0.93
9:13	59.97	300	446	0.171	24.7	5.29	10.48	0.64
9:18	59.97	300	444	0.171	12.4	5.29	10.48	0.60
9:23	59.97	300	443	0.171	3.1	5.26	10.48	0.56
9:28	59.97	300	441	0.171	0.0	5.30	10.49	0.54
9:33	59.97	300	439	0.171	0.0	5.35	10.5	0.53

Well Sampling Data Form

Client:	US Concrete/Coram Materials	Project Number:	2232.0006Y004		
Site Location:	416 Miller Place-Yaphank Road, Miller Place, NY				
Well No:	MW-13S	Weather:	40 F, Cloudy		
Date:	12/12/2024	Purge Water Disposal:	N/A		
Sampled By:	JC	Well Diameter / Type:	2" stick-up		
Depth of Well (ft):	44.52	Water Column (ft):	10.94		
Depth to Water(ft):	33.58	Volume of Water in Well (gal)	1.79		
Depth to Product (ft):	N/A				
well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611
Start Purging:	13:31	Purge Rate:	200 mL/min		
End Purging:	14:07	Volume of Water Removed (gal):	20		
Method of Purge:	Grundfos	Method of Sampling:	Low-Flow		
Physical Appearance/ Comments:	Clear				
Samples Collected: (analyses / no. bottles)	VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions				
Time:	14:00		Laboratory :	Alpha Analytical	

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV	Conductivity mS/m - S/m	Turbidity NTU	pH SU	Temperature C° - F°	Dissolved O ₂ mg/L
			(+/- 10 mV)	(w/in 3%)	(w/in %10)	(+/- 0.1)	(w/in 3%)	(w/in 10%)
13:38	35.17	200	415	0.655	1.5	5.82	12.49	1.61
13:43	35.18	200	416	0.655	0.0	5.82	12.51	0.19
13:48	35.18	200	416	0.655	0.0	5.80	12.56	0.00
13:53	35.17	200	415	0.653	0.0	5.78	12.56	0.00
13:58	35.17	200	416	0.652	0.0	5.75	12.58	0.20

Well Sampling Data Form

Client:	US Concrete/ Coram Materials	Project Number: 2232.0006Y004
Site Location:	416 Miller Place-Yaphank Road, Miller Place, NY	
Well No:	MW-13D	Weather: 38 F, Sunny
Date:	12/12/2024	Purge Water Disposal: N/A
Sampled By:	AI	Well Diameter / Type: 2" stick-up
Depth of Well (ft):	128.70	Water Column (ft): 93.70
Depth to Water(ft):	35.00	Volume of Water in Well (gal) 15.29
Depth to Product (ft):	N/A	
well diameter:	1 in	2 in 4 in 6 in 8 in
gallons per foot:	0.041	0.163 0.653 1.469 2.611
Start Purging:	13.28	Purge Rate: 200 mL/min
End Purging:	1412	Volume of Water Removed (gal): 50
Method of Purge:	Grundfos	Method of Sampling: Low-Flow
Physical Appearance/ Comments:	Cloud to clear	
Samples Collected: (analyses / no. bottles)	VOCs, SVOCs, TAL Metals (total and dissolved), Cations and Anions	
Time:	14:05	Laboratory : Alpha Analytical

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV	Conductivity mS/m - S/m	Turbidity NTU	pH SU	Temperature C° - F°	Dissolved O ₂ mg/L
			(+/- 10 mV)	(w/in 3%)	(w/in %10)	(+/- 0.1)	(w/in 3%)	(w/in 10%)
13:40	35.11	200	363	0.185	29.6	5.98	12.74	10.79
13:45	35.11	200	380	0.184	3.8	5.70	17.72	8.53
14:40	35.11	200	393	0.186	0.0	5.61	12.70	8.30
13:46	35.11	200	399	0.186	0.0	5.60	12.68	8.29
15:40	35.11	200	406	0.186	0.0	5.58	12.67	8.24
13:47	35.11	200	412	0.185	0.0	5.58	12.65	8.22

Fourth Quarter 2024 Quarterly Groundwater Monitoring Report
416 Miller Place-Yaphank Road, Miller Place, New York

APPENDIX C

Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L2472321
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Julia Michaels
Phone:	(631) 232-2600
Project Name:	CORAM MATERIALS
Project Number:	2232.0006Y005
Report Date:	12/23/24

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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 (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472321
Report Date: 12/23/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2472321-01	PZ_6_P	WATER	416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE, NY	12/10/24 13:18	12/10/24
L2472321-02	MW-8S_P	WATER	416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE, NY	12/10/24 11:10	12/10/24
L2472321-03	DUP_121024_P	WATER	416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE, NY	12/10/24 12:00	12/10/24
L2472321-04	FB_121024_P	WATER	416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE, NY	12/10/24 14:30	12/10/24

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472321
Report Date: 12/23/24

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472321
Report Date: 12/23/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by 1633

L2472321-01: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (320%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (364%); however, any associated target analytes detected above the RL are not reported from this analysis.

L2472321-03: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (272%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (329%); however, any associated target analytes detected above the RL are not reported from this analysis.

The Extracted Internal Standard recovery for the WG2010366-4 MS/MSD, performed on L2472321-01, is outside the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (280%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (317%). The associated MS spike compounds are within criteria; therefore, no further action was taken.

The WG2010366-4 MS/MSD recoveries, performed on L2472321-01, are outside the acceptance criteria for 3-perfluoropropyl propanoic acid (3:3ftca) (136%).

The Extracted Internal Standard recovery for the WG2010366-5 MS/MSD, performed on L2472321-01, is outside the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]hexanesulfonic acid (m2-4:2fts) (270%) and 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (312%). The associated MS spike compounds are within criteria; therefore, no further action was taken.

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:

 Ashley Leita

Title: Technical Director/Representative

Date: 12/23/24

ORGANICS

SEMIVOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS**

Lab ID: L2472321-01

Date Collected: 12/10/24 13:18

Client ID: PZ_6_P

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 12/17/24 19:50

Analytical Date: 12/20/24 11:23

Analyst: AC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.34	J	ng/l	6.46	0.533	1
Perfluoropentanoic Acid (PFPeA)	1.79	J	ng/l	3.23	0.364	1
Perfluorobutanesulfonic Acid (PFBS)	1.13	J	ng/l	1.62	0.404	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.46	0.921	1
Perfluorohexanoic Acid (PFHxA)	1.89		ng/l	1.62	0.250	1
Perfluoropentanesulfonic Acid (PFPeS)	0.364	J	ng/l	1.62	0.210	1
Perfluoroheptanoic Acid (PFHpA)	1.14	J	ng/l	1.62	0.242	1
Perfluorohexanesulfonic Acid (PFHxS)	6.53		ng/l	1.62	0.137	1
Perfluorooctanoic Acid (PFOA)	20.0		ng/l	1.62	0.267	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.46	4.86	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.59	J	ng/l	1.62	0.202	1
Perfluorononanoic Acid (PFNA)	12.3		ng/l	1.62	0.267	1
Perfluorooctanesulfonic Acid (PFOS)	48.5		ng/l	1.62	0.267	1
Perfluorodecanoic Acid (PFDA)	1.12	J	ng/l	1.62	0.210	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.46	1.24	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.62	0.202	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.62	0.485	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.62	0.178	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.62	0.137	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.62	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.62	0.485	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.62	0.218	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.62	0.186	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.62	0.162	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.46	1.62	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.46	0.380	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.62	0.242	1

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS****Lab ID:** L2472321-01**Date Collected:** 12/10/24 13:18**Client ID:** PZ_6_P**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.46	0.444	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.46	0.452	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.62	0.226	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.62	0.356	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.2	1.32	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.2	1.12	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.23	0.250	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.23	0.364	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.23	0.331	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.23	0.550	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.08	0.541	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.4	4.30	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.4	3.22	1

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS**

Lab ID: L2472321-01

Date Collected: 12/10/24 13:18

Client ID: PZ_6_P

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	97		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	87		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	93		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	320	Q	40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	97		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	93		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	95		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	86		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	364	Q	40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	89		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	86		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	88		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	266		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	105		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	89		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	66		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	102		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	86		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	64		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	93		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	54		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	53		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	62		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	60		10-130

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS**

Lab ID: L2472321-02

Date Collected: 12/10/24 11:10

Client ID: MW-8S_P

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 12/17/24 19:50

Analytical Date: 12/20/24 11:50

Analyst: AC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.89	J	ng/l	6.18	0.510	1
Perfluoropentanoic Acid (PFPeA)	1.54	J	ng/l	3.09	0.348	1
Perfluorobutanesulfonic Acid (PFBS)	0.788	J	ng/l	1.54	0.386	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.18	0.880	1
Perfluorohexanoic Acid (PFHxA)	2.26		ng/l	1.54	0.239	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.54	0.201	1
Perfluoroheptanoic Acid (PFHpA)	2.19		ng/l	1.54	0.232	1
Perfluorohexanesulfonic Acid (PFHxS)	0.850	J	ng/l	1.54	0.131	1
Perfluorooctanoic Acid (PFOA)	3.64		ng/l	1.54	0.255	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.18	4.65	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.54	0.193	1
Perfluorononanoic Acid (PFNA)	0.618	J	ng/l	1.54	0.255	1
Perfluorooctanesulfonic Acid (PFOS)	1.41	J	ng/l	1.54	0.255	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.54	0.201	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.18	1.18	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.54	0.193	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.54	0.463	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.54	0.170	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.54	0.131	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.54	0.093	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.54	0.463	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.54	0.208	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.54	0.178	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.54	0.154	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.18	1.54	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.18	0.363	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.54	0.232	1



Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS****Lab ID:** L2472321-02**Date Collected:** 12/10/24 11:10**Client ID:** MW-8S_P**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.18	0.425	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.18	0.432	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.54	0.216	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.54	0.340	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.4	1.26	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.4	1.06	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.09	0.239	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.09	0.348	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.09	0.317	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.09	0.525	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.72	0.518	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	38.6	4.11	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	38.6	3.07	1

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS**

Lab ID: L2472321-02

Date Collected: 12/10/24 11:10

Client ID: MW-8S_P

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	102		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	106		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	110		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	188		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	106		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	99		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	113		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	95		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	129		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	105		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	90		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	82		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	82		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	72		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	73		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	75		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	75		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	79		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	67		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	102		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	72		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	75		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	84		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	82		10-130

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS**

Lab ID: L2472321-03
 Client ID: DUP_121024_P
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
 NY

Date Collected: 12/10/24 12:00
 Date Received: 12/10/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 12/20/24 11:59
 Analyst: AC

Extraction Method: EPA 1633
 Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.05	J	ng/l	6.40	0.528	1
Perfluoropentanoic Acid (PFPeA)	1.95	J	ng/l	3.20	0.360	1
Perfluorobutanesulfonic Acid (PFBS)	1.02	J	ng/l	1.60	0.400	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	0.912	1
Perfluorohexanoic Acid (PFHxA)	1.58	J	ng/l	1.60	0.248	1
Perfluoropentanesulfonic Acid (PFPeS)	0.320	J	ng/l	1.60	0.208	1
Perfluoroheptanoic Acid (PFHpA)	1.45	J	ng/l	1.60	0.240	1
Perfluorohexanesulfonic Acid (PFHxS)	6.57		ng/l	1.60	0.136	1
Perfluorooctanoic Acid (PFOA)	20.5		ng/l	1.60	0.264	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	4.81	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.73		ng/l	1.60	0.200	1
Perfluorononanoic Acid (PFNA)	13.1		ng/l	1.60	0.264	1
Perfluorooctanesulfonic Acid (PFOS)	50.9		ng/l	1.60	0.264	1
Perfluorodecanoic Acid (PFDA)	0.976	J	ng/l	1.60	0.208	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	1.22	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.200	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.480	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.176	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.136	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.096	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.480	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.216	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.184	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.160	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	1.60	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	0.376	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.240	1

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS****Lab ID:** L2472321-03**Date Collected:** 12/10/24 12:00**Client ID:** DUP_121024_P**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	0.440	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	0.448	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.224	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.352	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.30	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.10	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.248	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.360	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.20	0.328	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	0.544	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	0.536	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	4.25	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	3.18	1

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS**

Lab ID: L2472321-03

Date Collected: 12/10/24 12:00

Client ID: DUP_121024_P

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Surrogate	% Recovery			Qualifier	Acceptance Criteria	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	90				5-130	
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	78				40-130	
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	83				40-135	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	272			Q	40-200	
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	87				40-130	
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	82				40-130	
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	85				40-130	
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	75				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	329			Q	40-200	
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	79				40-130	
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	79				40-130	
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	78				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	228				40-300	
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	106				40-170	
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	79				30-130	
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	67				40-130	
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	107				25-135	
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	81				10-130	
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	67				10-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	82				40-130	
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	54				10-130	
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	56				10-130	
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	66				10-130	
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	67				10-130	

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS**

Lab ID: L2472321-04
 Client ID: FB_121024_P
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
 NY

Date Collected: 12/10/24 14:30
 Date Received: 12/10/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 12/20/24 12:08
 Analyst: AC

Extraction Method: EPA 1633
 Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.42	0.530	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.21	0.361	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.401	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.42	0.915	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.249	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.209	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.241	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.136	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.265	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.42	4.83	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.201	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.265	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.265	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.209	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.42	1.23	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.201	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.482	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.176	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.136	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.096	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.482	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.217	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.184	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.160	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.42	1.60	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.42	0.377	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.241	1



Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS****Lab ID:** L2472321-04**Date Collected:** 12/10/24 14:30**Client ID:** FB_121024_P**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.42	0.441	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.42	0.449	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.225	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.353	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.31	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.11	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.21	0.249	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.21	0.361	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.21	0.329	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.21	0.546	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.03	0.538	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.1	4.27	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.1	3.19	1

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**SAMPLE RESULTS**

Lab ID: L2472321-04

Date Collected: 12/10/24 14:30

Client ID: FB_121024_P

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Surrogate	% Recovery			Qualifier	Acceptance Criteria	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	98				5-130	
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	104				40-130	
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	102				40-135	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	100				40-200	
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	94				40-130	
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	98				40-130	
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	98				40-130	
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	98				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	100				40-200	
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	100				40-130	
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	96				40-130	
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	94				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	82				40-300	
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	84				40-170	
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	75				30-130	
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	93				40-130	
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	90				25-135	
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	83				10-130	
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	68				10-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	102				40-130	
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	74				10-130	
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	82				10-130	
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	100				10-130	
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	100				10-130	

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472321
Report Date: 12/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/20/24 10:12
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-04 Batch: WG2010366-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	0.528
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.360
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.400
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	0.912
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.248
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.208
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.240
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.136
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.264
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	4.82
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.200
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.264
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.264
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.208
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	1.22
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.200
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.480
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.176
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.136
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.096
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.480
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.216
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.184
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.160
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	1.60
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	0.376
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.240



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472321
Report Date: 12/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/20/24 10:12
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-04 Batch: WG2010366-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	0.440
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	0.448
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.224
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.352
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.10
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.248
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.360
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.328
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	0.544
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	0.536
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	4.26
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	3.18

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472321
Report Date: 12/23/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/20/24 10:12
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-04 Batch: WG2010366-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	95		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	99		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	98		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	95		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	93		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	90		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	96		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	90		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	99		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	91		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	95		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	83		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	84		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	89		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	99		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	91		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	102		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	80		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	95		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	72		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	76		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	93		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	93		10-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472321

Report Date: 12/23/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 Batch: WG2010366-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	109		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	114		-		65-135	-		30
Perfluorobutanesulfonic Acid (PFBS)	107		-		60-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	99		-		70-145	-		30
Perfluorohexanoic Acid (PFHxA)	110		-		70-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	103		-		65-140	-		30
Perfluoroheptanoic Acid (PFHpA)	124		-		70-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	110		-		65-145	-		30
Perfluorooctanoic Acid (PFOA)	108		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	111		-		65-155	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	108		-		70-150	-		30
Perfluorononanoic Acid (PFNA)	120		-		70-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	108		-		55-150	-		30
Perfluorodecanoic Acid (PFDA)	138		-		70-140	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	113		-		60-150	-		30
Perfluorononanesulfonic Acid (PFNS)	106		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	115		-		50-140	-		30
Perfluoroundecanoic Acid (PFUnA)	144		-		70-145	-		30
Perfluorodecanesulfonic Acid (PFDS)	107		-		60-145	-		30
Perfluorooctanesulfonamide (PFOSA)	108		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	110		-		70-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472321

Report Date: 12/23/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 Batch: WG2010366-2 LOW LEVEL								
Perfluorododecanoic Acid (PFDoA)	121		-		70-140	-		30
Perfluorotridecanoic Acid (PFTrDA)	113		-		65-140	-		30
Perfluorotetradecanoic Acid (PFTeDA)	111		-		60-140	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	113		-		70-140	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	122		-		65-145	-		30
Perfluorododecanesulfonic Acid (PFDoS)	104		-		50-145	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	118		-		70-155	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	114		-		55-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	108		-		60-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	116		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	117		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	117		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	103		-		55-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	114		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	108		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	114		-		50-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	118		-		65-130	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	109		-		70-135	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	91		-		50-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472321

Project Number: 2232.0006Y005

Report Date: 12/23/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 Batch: WG2010366-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	94				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	93				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	98				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	92				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	92				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	88				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	94				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	87				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	98				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	99				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	80				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	81				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	82				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	92				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	90				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	95				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	77				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	95				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	76				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	77				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	94				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	95				10-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472321

Report Date: 12/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 Batch: WG2010366-3								
Perfluorobutanoic Acid (PFBA)	110		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	108		-		65-135	-		30
Perfluorobutanesulfonic Acid (PFBS)	104		-		60-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	108		-		70-145	-		30
Perfluorohexanoic Acid (PFHxA)	112		-		70-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	114		-		65-140	-		30
Perfluoroheptanoic Acid (PFHpA)	125		-		70-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	109		-		65-145	-		30
Perfluorooctanoic Acid (PFOA)	106		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	117		-		65-155	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	115		-		70-150	-		30
Perfluorononanoic Acid (PFNA)	123		-		70-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	104		-		55-150	-		30
Perfluorodecanoic Acid (PFDA)	132		-		70-140	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	118		-		60-150	-		30
Perfluorononanesulfonic Acid (PFNS)	102		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	106		-		50-140	-		30
Perfluoroundecanoic Acid (PFUnA)	142		-		70-145	-		30
Perfluorodecanesulfonic Acid (PFDS)	106		-		60-145	-		30
Perfluorooctanesulfonamide (PFOSA)	103		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	101		-		70-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472321

Report Date: 12/23/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 Batch: WG2010366-3								
Perfluorododecanoic Acid (PFDoA)	115		-		70-140	-		30
Perfluorotridecanoic Acid (PFTrDA)	107		-		65-140	-		30
Perfluorotetradecanoic Acid (PFTeDA)	107		-		60-140	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	112		-		70-140	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	120		-		65-145	-		30
Perfluorododecanesulfonic Acid (PFDoS)	100		-		50-145	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	116		-		70-155	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUs)	108		-		55-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	105		-		60-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	110		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	107		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	114		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	103		-		55-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	106		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	116		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	116		-		50-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	109		-		65-130	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	101		-		70-135	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	91		-		50-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472321

Project Number: 2232.0006Y005

Report Date: 12/23/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 Batch: WG2010366-3								

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	97				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	101				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	108				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	102				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	92				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	88				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	98				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	96				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	96				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	94				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	94				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	99				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	82				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	84				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	85				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	90				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	87				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	98				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	84				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	101				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	74				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	79				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	99				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	97				10-130

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472321

Project Number: 2232.0006Y005

Report Date: 12/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2010366-4 WG2010366-5 QC Sample: L2472321-01 Client ID: PZ_6_P												
Perfluorobutanoic Acid (PFBA)	2.34J	80	91.2	111		84.3	104		70-140	8		30
Perfluoropentanoic Acid (PFPeA)	1.79J	40	47.2	113		44.6	109		65-135	6		30
Perfluorobutanesulfonic Acid (PFBS)	1.13J	17.8	19.6	104		18.9	102		60-145	4		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	75	76.6	102		77.1	105		70-145	1		30
Perfluorohexanoic Acid (PFHxA)	1.89	20	22.4	102		20.1	93		70-145	11		30
Perfluoropentanesulfonic Acid (PFPeS)	0.364J	18.8	20.7	108		19.2	102		65-140	8		30
Perfluoroheptanoic Acid (PFHpA)	1.14J	20	23.4	111		23.2	112		70-150	1		30
Perfluorohexanesulfonic Acid (PFHxS)	6.53	18.3	27.0	112		25.6	106		65-145	5		30
Perfluorooctanoic Acid (PFOA)	20.0	20	42.8	114		42.4	114		70-150	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	76.1	89.6	118		83.3	111		65-155	7		30
Perfluoroheptanesulfonic Acid (PFHpS)	1.59J	19	21.8	106		21.3	105		70-150	2		30
Perfluorononanoic Acid (PFNA)	12.3	20	39.9	138		32.8	104		70-150	20		30
Perfluorooctanesulfonic Acid (PFOS)	48.5	18.6	67.5	102		68.9	112		55-150	2		30
Perfluorodecanoic Acid (PFDA)	1.12J	20	27.9	134		23.7	115		70-140	16		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	76.8	85.5	111		80.1	106		60-150	7		30
Perfluorononanesulfonic Acid (PFNS)	ND	19.3	18.1	94		16.2	86		65-145	11		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	20	21.3	106		17.5	89		50-140	20		30
Perfluoroundecanoic Acid (PFUnA)	ND	20	25.8	129		21.8	111		70-145	17		30
Perfluorodecanesulfonic Acid (PFDS)	ND	19.3	16.5	86		15.2	80		60-145	8		30

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472321

Report Date: 12/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2010366-4 WG2010366-5 QC Sample: L2472321-01 Client ID: PZ_6_P												
Perfluorooctanesulfonamide (PFOSA)	ND	20	19.5	97		17.6	90		70-145	10		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	20	18.7	93		17.0	86		70-145	10		30
Perfluorododecanoic Acid (PFDoA)	ND	20	19.7	98		18.7	95		70-140	5		30
Perfluorotridecanoic Acid (PFTrDA)	ND	20	17.7	88		16.6	84		65-140	6		30
Perfluorotetradecanoic Acid (PFTeDA)	ND	20	21.2	106		18.2	93		60-140	15		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	80	93.4	117		86.6	110		70-140	8		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	75.6	90.6	120		86.0	116		65-145	5		30
Perfluorododecanesulfonic Acid (PFDoS)	ND	19.4	15.9	82		14.7	77		50-145	8		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9CI-PF3ONS)	ND	74.7	77.2	103		72.4	99		70-155	6		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11CI-PF3OUdS)	ND	75.5	64.0	85		60.9	82		55-160	5		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	20	19.3	96		16.3	83		60-150	17		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	20	19.3	96		17.5	89		65-145	10		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	200	192	96		171	87		70-145	12		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	200	197	98		175	89		70-135	12		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	40	49.3	123		45.3	115		55-140	8		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	40	43.1	108		40.3	102		60-150	7		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEA)	ND	35.7	38.0	106		34.4	98		70-140	10		30
Nonafluoro-3,6-Dioxaheptanoic	ND	40	44.6	111		43.3	110		50-150	3		30

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472321

Project Number: 2232.0006Y005

Report Date: 12/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2010366-4 WG2010366-5 QC Sample: L2472321-01 Client ID: PZ_6_P												
Acid (NFDHA)												
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	100	136	136	Q	120	122		65-130	13		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	500	595	119		557	113		70-135	7		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	500	653	131		532	108		50-145	20		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	243		228		40-300
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	280	Q	270	Q	40-200
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	317	Q	312	Q	40-200
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	64		68		10-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	121		119		25-135
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	69		75		10-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	65		68		10-130
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	115		117		40-170
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	69		75		10-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	85		86		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	74		78		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	87		87		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88		86		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	87		90		30-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	83		88		40-130
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	92		93		40-130

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472321

Project Number: 2232.0006Y005

Report Date: 12/23/24

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG2010366-4 WG2010366-5 QC Sample: L2472321-01 Client ID: PZ_6_P

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	91		91		40-130
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	94		97		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	69		75		10-130
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	89		91		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	81		85		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	75		81		40-130
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	78		90		40-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	82		86		40-130

Project Name: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472321-01A	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-01A1	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-01A2	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-01B	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-01B1	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-01B2	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-01C	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		-
L2472321-01D	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		-
L2472321-01E	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		-
L2472321-01F	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		-
L2472321-02A	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-02B	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-03A	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-03B	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)
L2472321-04A	Plastic 500ml unpreserved	A	NA		3.8	Y	Absent		A2-NY-1633(28)

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Serial_No:12232411:52
Lab Number: L2472321
Report Date: 12/23/24

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Serial_No:12232411:52
Lab Number: L2472321
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name: CORAM MATERIALS
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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: DU Report with 'J' Qualifiers



Project Name: CORAM MATERIALS
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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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: CORAM MATERIALS
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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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: CORAM MATERIALS**Lab Number:** L2472321**Project Number:** 2232.0006Y005**Report Date:** 12/23/24

REFERENCES

- 144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **23**Published Date: **12/09/2024**Page **1** of **1****Certification Information**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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 Project Manager.



ANALYTICAL REPORT

Lab Number:	L2472333
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Julia Michaels
Phone:	(631) 232-2600
Project Name:	CORAM MATERIALS
Project Number:	2232.0006Y005
Report Date:	01/27/25

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2472333-01	MW-8S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/10/24 11:10	12/10/24
L2472333-02	MW-8D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/10/24 11:05	12/10/24
L2472333-03	MW-6D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/10/24 13:10	12/10/24
L2472333-04	PZ-6	WATER	416 MILLER PLACE-YAPHANK ROAD	12/10/24 13:18	12/10/24
L2472333-05	DUP_121024	WATER	416 MILLER PLACE-YAPHANK ROAD	12/10/24 12:00	12/10/24
L2472333-06	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	12/10/24 00:00	12/10/24
L2472333-07	PZ-6_R	WATER	416 MILLER PLACE-YAPHANK ROAD	12/10/24 13:18	12/10/24
L2472333-08	MW-8S_R	WATER	416 MILLER PLACE-YAPHANK ROAD	12/10/24 11:10	12/10/24
L2472333-09	DUP_121024_R	WATER	416 MILLER PLACE-YAPHANK ROAD	12/10/24 12:00	12/10/24

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Case Narrative (continued)

Report Revision

January 27, 2025: The subcontracted Radiochemistry report has been amended.

Report Submission

January 06, 2025: This final report includes the results of all requested analyses.

December 18, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The following analyses were subcontracted: Ammonium, Iodide, Sulfide, Radium 226, Radium 228, Thorium, and Uranium. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2472333-01 through -05: Sample containers for Total Suspended Solids were received, but not listed on the chain of custody. At the client's request, the analysis was performed.

Semivolatile Organics

The WG2007588-2/-3 LCS/LCSD recoveries, associated with L2472333-01 through -05, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG2007588-4/-5 MS/MSD recoveries, performed on L2472333-04, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) due to the concentration of this compound in the MS/MSD falling below the reported detection limit.

Dissolved Metals

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Case Narrative (continued)

The WG2008496-3 MS recovery for calcium (70%), performed on L2472333-04, does not apply because the sample concentration is greater than four times the spike amount added.

Total Metals

The WG2009795-7 MS recovery for calcium (60%), performed on L2472333-05, does not apply because the sample concentration is greater than four times the spike amount added.

Anions by Ion Chromatography

The WG2008663-4 MSD recovery, performed on L2472333-04, is outside the acceptance criteria for bromide (84%); however, the associated LCS recovery is within criteria. No further action was taken.

Nitrogen, Total Kjeldahl

The WG2008818-4 MS recovery, performed on L2472333-04, is outside the acceptance criteria for nitrogen, total kjeldahl (112%); however, the associated LCS recovery is within criteria. No further action was taken.

The WG2008818-3 Laboratory Duplicate RPD for nitrogen, total kjeldahl (44%), performed on L2472333-04, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

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:



Kelly O'Neill

Title: Technical Director/Representative

Date: 01/27/25

ORGANICS

VOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-01

Date Collected: 12/10/24 11:10

Client ID: MW-8S

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/15/24 22:40

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-01**Date Collected:** 12/10/24 11:10**Client ID:** MW-8S**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-02
 Client ID: MW-8D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 11:05
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/15/24 23:06
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-02**Date Collected:** 12/10/24 11:05**Client ID:** MW-8D**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-03
 Client ID: MW-6D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 13:10
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/15/24 23:32
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-03**Date Collected:** 12/10/24 13:10**Client ID:** MW-6D**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-04
 Client ID: PZ-6
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 13:18
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/15/24 23:58
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-04**Date Collected:** 12/10/24 13:18**Client ID:** PZ-6**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-05
 Client ID: DUP_121024
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 12:00
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/16/24 00:23
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-05**Date Collected:** 12/10/24 12:00**Client ID:** DUP_121024**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-06
 Client ID: TRIP BLANK
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 00:00
 Date Received: 12/10/24
 Field Prep: None

Sample Depth:

Matrix: Trip Blank (Aqueous)
 Analytical Method: 1,8260D
 Analytical Date: 12/16/24 00:49
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-06**Date Collected:** 12/10/24 00:00**Client ID:** TRIP BLANK**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** None**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/15/24 21:22
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG2009667-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/15/24 21:22
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG2009667-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/15/24 21:22
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG2009667-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG2009667-3 WG2009667-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		97		63-132	3		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	97		93		63-130	4		20
1,1,2-Trichloroethane	110		100		70-130	10		20
Tetrachloroethene	98		93		70-130	5		20
Chlorobenzene	100		95		75-130	5		20
Trichlorofluoromethane	130		120		62-150	8		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	100		99		67-130	1		20
Bromodichloromethane	100		95		67-130	5		20
trans-1,3-Dichloropropene	93		88		70-130	6		20
cis-1,3-Dichloropropene	96		92		70-130	4		20
Bromoform	87		84		54-136	4		20
1,1,2,2-Tetrachloroethane	110		100		67-130	10		20
Benzene	110		100		70-130	10		20
Toluene	100		97		70-130	3		20
Ethylbenzene	100		98		70-130	2		20
Chloromethane	110		100		64-130	10		20
Bromomethane	110		100		39-139	10		20
Vinyl chloride	120		120		55-140	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG2009667-3 WG2009667-4								
Chloroethane	150	Q	140	Q	55-138	7		20
1,1-Dichloroethene	120		120		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		97		70-130	3		20
1,3-Dichlorobenzene	100		94		70-130	6		20
1,4-Dichlorobenzene	100		95		70-130	5		20
Methyl tert butyl ether	95		93		63-130	2		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	83		80		36-147	4		20
Acetone	100		90		58-148	11		20
Carbon disulfide	120		110		51-130	9		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	95		88		59-130	8		20
2-Hexanone	93		91		57-130	2		20
Bromochloromethane	110		98		70-130	12		20
1,2-Dibromoethane	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	88		85		41-144	3		20
Isopropylbenzene	100		96		70-130	4		20
1,2,3-Trichlorobenzene	97		95		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG2009667-3 WG2009667-4								
1,2,4-Trichlorobenzene	95		94		70-130	1		20
Methyl Acetate	110		100		70-130	10		20
Cyclohexane	110		100		70-130	10		20
Freon-113	120		120		70-130	0		20
Methyl cyclohexane	100		98		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	101		99		70-130

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2009667-6 WG2009667-7 QC Sample: L2472333-04 Client ID: PZ-6												
Methylene chloride	ND	10	12	120		11	110		70-130	9		20
1,1-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
Chloroform	ND	10	12	120		11	110		70-130	9		20
Carbon tetrachloride	ND	10	12	120		11	110		63-132	9		20
1,2-Dichloropropane	ND	10	12	120		11	110		70-130	9		20
Dibromochloromethane	ND	10	10	100		9.8	98		63-130	2		20
1,1,2-Trichloroethane	ND	10	11	110		11	110		70-130	0		20
Tetrachloroethene	ND	10	10	100		9.8	98		70-130	2		20
Chlorobenzene	ND	10	11	110		10	100		75-130	10		20
Trichlorofluoromethane	ND	10	14	140		14	140		62-150	0		20
1,2-Dichloroethane	ND	10	12	120		11	110		70-130	9		20
1,1,1-Trichloroethane	ND	10	12	120		11	110		67-130	9		20
Bromodichloromethane	ND	10	11	110		11	110		67-130	0		20
trans-1,3-Dichloropropene	ND	10	9.1	91		9.0	90		70-130	1		20
cis-1,3-Dichloropropene	ND	10	9.7	97		9.1	91		70-130	6		20
Bromoform	ND	10	8.8	88		8.4	84		54-136	5		20
1,1,2,2-Tetrachloroethane	ND	10	12	120		11	110		67-130	9		20
Benzene	ND	10	12	120		11	110		70-130	9		20
Toluene	ND	10	11	110		10	100		70-130	10		20
Ethylbenzene	ND	10	11	110		10	100		70-130	10		20
Chloromethane	ND	10	12	120		12	120		64-130	0		20
Bromomethane	ND	10	6.0	60		7.4	74		39-139	21	Q	20
Vinyl chloride	ND	10	14	140		13	130		55-140	7		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2009667-6 WG2009667-7 QC Sample: L2472333-04 Client ID: PZ-6												
Chloroethane	ND	10	18	180	Q	18	180	Q	55-138	0		20
1,1-Dichloroethene	ND	10	14	140		13	130		61-145	7		20
trans-1,2-Dichloroethene	ND	10	12	120		11	110		70-130	9		20
Trichloroethene	ND	10	12	120		11	110		70-130	9		20
1,2-Dichlorobenzene	ND	10	11	110		10	100		70-130	10		20
1,3-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,4-Dichlorobenzene	ND	10	10	100		9.9	99		70-130	1		20
Methyl tert butyl ether	ND	10	10	100		9.9	99		63-130	1		20
p/m-Xylene	ND	20	21	105		20	100		70-130	5		20
o-Xylene	ND	20	21	105		20	100		70-130	5		20
cis-1,2-Dichloroethene	ND	10	12	120		11	110		70-130	9		20
Styrene	ND	20	21	105		20	100		70-130	5		20
Dichlorodifluoromethane	ND	10	9.6	96		9.5	95		36-147	1		20
Acetone	ND	10	11	110		12	120		58-148	9		20
Carbon disulfide	ND	10	14	140	Q	13	130		51-130	7		20
2-Butanone	ND	10	11	110		10	100		63-138	10		20
4-Methyl-2-pentanone	ND	10	9.6	96		9.5	95		59-130	1		20
2-Hexanone	ND	10	9.2	92		9.3	93		57-130	1		20
Bromochloromethane	ND	10	11	110		11	110		70-130	0		20
1,2-Dibromoethane	ND	10	11	110		10	100		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	10	9.4	94		9.0	90		41-144	4		20
Isopropylbenzene	ND	10	10	100		10	100		70-130	0		20
1,2,3-Trichlorobenzene	ND	10	10	100		10	100		70-130	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG2009667-6 WG2009667-7 QC Sample: L2472333-04 Client ID: PZ-6												
1,2,4-Trichlorobenzene	ND	10	9.5	95		9.6	96		70-130	1		20
Methyl Acetate	ND	10	9.3	93		8.8	88		70-130	6		20
Cyclohexane	ND	10	12	120		11	110		70-130	9		20
Freon-113	ND	10	14	140	Q	13	130		70-130	7		20
Methyl cyclohexane	ND	10	11	110		10	100		70-130	10		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	102		102		70-130
Toluene-d8	99		99		70-130

SEMIVOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-01

Date Collected: 12/10/24 11:10

Client ID: MW-8S

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E

Extraction Date: 12/12/24 01:54

Analytical Date: 12/13/24 05:14

Analyst: SMZ

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-01**Date Collected:** 12/10/24 11:10**Client ID:** MW-8S**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	23		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	22		10-120
4-Terphenyl-d14	88		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-01
 Client ID: MW-8S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 11:10
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/12/24 13:24
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/12/24 01:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-01

Date Collected: 12/10/24 11:10

Client ID: MW-8S

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	101		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-01

Date Collected: 12/10/24 11:10

Client ID: MW-8S

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/12/24 15:30

Analytical Date: 12/13/24 18:10

Analyst: GRS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	36			15-110		

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-02

Date Collected: 12/10/24 11:05

Client ID: MW-8D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E

Extraction Date: 12/12/24 01:54

Analytical Date: 12/13/24 05:40

Analyst: SMZ

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	4.4		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-02**Date Collected:** 12/10/24 11:05**Client ID:** MW-8D**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	31		10-120
4-Terphenyl-d14	64		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-02
 Client ID: MW-8D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 11:05
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/12/24 13:40
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/12/24 01:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	0.41		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-02

Date Collected: 12/10/24 11:05

Client ID: MW-8D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	72		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-03
 Client ID: MW-6D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 13:10
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/13/24 06:06
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/12/24 01:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	2.6	J	ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-03**Date Collected:** 12/10/24 13:10**Client ID:** MW-6D**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	22		21-120
Phenol-d6	17		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	23		10-120
4-Terphenyl-d14	85		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-03
 Client ID: MW-6D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 13:10
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/12/24 13:56
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/12/24 01:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-03

Date Collected: 12/10/24 13:10

Client ID: MW-6D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	99		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-04
 Client ID: PZ-6
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 13:18
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/13/24 07:24
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/12/24 01:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-04**Date Collected:** 12/10/24 13:18**Client ID:** PZ-6**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	0.94	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	18	Q	21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	28		10-120
4-Terphenyl-d14	84		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-04
 Client ID: PZ-6
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 13:18
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/12/24 14:12
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/12/24 01:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-04

Date Collected: 12/10/24 13:18

Client ID: PZ-6

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	24		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	85		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-04

Date Collected: 12/10/24 13:18

Client ID: PZ-6

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/12/24 15:30

Analytical Date: 12/13/24 18:35

Analyst: GRS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			31		15-110	

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-05
 Client ID: DUP_121024
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 12:00
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/13/24 07:50
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/12/24 01:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2472333-05**Date Collected:** 12/10/24 12:00**Client ID:** DUP_121024**Date Received:** 12/10/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	19	Q	21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	26		10-120
4-Terphenyl-d14	86		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-05
 Client ID: DUP_121024
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 12:00
 Date Received: 12/10/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/12/24 15:01
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/12/24 01:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-05

Date Collected: 12/10/24 12:00

Client ID: DUP_121024

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	24		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	93		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-05

Date Collected: 12/10/24 12:00

Client ID: DUP_121024

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/12/24 15:30

Analytical Date: 12/13/24 19:51

Analyst: GRS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.150	0.0339	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			35		15-110	

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/11/24 08:25
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 12/11/24 03:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG2007588-1					
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
Isophorone	ND		ug/l	5.0	0.86
Nitrobenzene	ND		ug/l	2.0	0.20
NDPA/DPA	ND		ug/l	2.0	0.92
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
Di-n-butylphthalate	ND		ug/l	5.0	0.96
Di-n-octylphthalate	ND		ug/l	5.0	2.3
Diethyl phthalate	ND		ug/l	5.0	0.76
Dimethyl phthalate	ND		ug/l	5.0	0.92
Biphenyl	ND		ug/l	2.0	0.20
4-Chloroaniline	ND		ug/l	5.0	0.47
2-Nitroaniline	ND		ug/l	5.0	1.0
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.4
Dibenzofuran	ND		ug/l	2.0	0.40
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24
Acetophenone	ND		ug/l	5.0	0.92
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Chlorophenol	ND		ug/l	2.0	0.65



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/11/24 08:25
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 12/11/24 03:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG2007588-1					
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
2-Nitrophenol	ND		ug/l	10	2.0
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrophenol	ND		ug/l	20	5.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
Phenol	ND		ug/l	5.0	0.35
2-Methylphenol	ND		ug/l	5.0	2.3
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Carbazole	ND		ug/l	2.0	0.31
Atrazine	ND		ug/l	10	1.0
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	1.2

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	28		10-120
4-Terphenyl-d14	54		41-149

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/11/24 09:08
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/11/24 03:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG2007589-1					
Acenaphthene	ND		ug/l	0.10	0.02
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.03
Hexachlorobutadiene	ND		ug/l	0.50	0.02
Naphthalene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.10	0.03
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03
Chrysene	ND		ug/l	0.10	0.03
Acenaphthylene	ND		ug/l	0.10	0.02
Anthracene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.02
Fluorene	ND		ug/l	0.10	0.03
Phenanthrene	ND		ug/l	0.10	0.04
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.03
Pentachlorophenol	ND		ug/l	0.80	0.06
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.02
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/11/24 09:08
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 12/11/24 03:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG2007589-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	80		41-149

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/13/24 12:08
Analyst: GRS

Extraction Method: EPA 3510C
Extraction Date: 12/12/24 15:30

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01,04-05 Batch: WG2008475-1					
1,4-Dioxane	ND		ug/l	0.150	0.0339

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	47		15-110

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2007588-2 WG2007588-3								
3,3'-Dichlorobenzidine	82		94		40-140	14		30
2,4-Dinitrotoluene	77		88		48-143	13		30
2,6-Dinitrotoluene	86		94		40-140	9		30
4-Chlorophenyl phenyl ether	78		90		40-140	14		30
4-Bromophenyl phenyl ether	84		94		40-140	11		30
Bis(2-chloroisopropyl)ether	91		103		40-140	12		30
Bis(2-chloroethoxy)methane	79		89		40-140	12		30
Hexachlorocyclopentadiene	56		60		40-140	7		30
Isophorone	79		92		40-140	15		30
Nitrobenzene	81		95		40-140	16		30
NDPA/DPA	79		88		40-140	11		30
n-Nitrosodi-n-propylamine	83		96		29-132	15		30
Bis(2-ethylhexyl)phthalate	86		94		40-140	9		30
Butyl benzyl phthalate	87		93		40-140	7		30
Di-n-butylphthalate	84		92		40-140	9		30
Di-n-octylphthalate	88		94		40-140	7		30
Diethyl phthalate	82		93		40-140	13		30
Dimethyl phthalate	84		90		40-140	7		30
Biphenyl	71		77		40-140	8		30
4-Chloroaniline	80		89		40-140	11		30
2-Nitroaniline	86		92		52-143	7		30
3-Nitroaniline	75		86		25-145	14		30
4-Nitroaniline	77		87		51-143	12		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2007588-2 WG2007588-3								
Dibenzofuran	71		80		40-140	12		30
1,2,4,5-Tetrachlorobenzene	77		86		2-134	11		30
Acetophenone	71		82		39-129	14		30
2,4,6-Trichlorophenol	74		84		30-130	13		30
p-Chloro-m-cresol	85		94		23-97	10		30
2-Chlorophenol	71		80		27-123	12		30
2,4-Dichlorophenol	71		82		30-130	14		30
2,4-Dimethylphenol	62		71		30-130	14		30
2-Nitrophenol	67		78		30-130	15		30
4-Nitrophenol	40		51		10-80	24		30
2,4-Dinitrophenol	0	Q	0	Q	20-130	NC		30
4,6-Dinitro-o-cresol	84		98		20-164	15		30
Phenol	37		46		12-110	22		30
2-Methylphenol	63		76		30-130	19		30
3-Methylphenol/4-Methylphenol	62		75		30-130	19		30
2,4,5-Trichlorophenol	83		93		30-130	11		30
Carbazole	76		85		55-144	11		30
Atrazine	105		118		40-140	12		30
Benzaldehyde	70		82		40-140	16		30
Caprolactam	51		53		10-130	4		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2007588-2 WG2007588-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		61		21-120
Phenol-d6	37		44		10-120
Nitrobenzene-d5	73		89		23-120
2-Fluorobiphenyl	75		80		15-120
2,4,6-Tribromophenol	59		69		10-120
4-Terphenyl-d14	70		80		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG2007589-2 WG2007589-3								
Acenaphthene	81		92		40-140	13		40
2-Chloronaphthalene	76		85		40-140	11		40
Fluoranthene	84		98		40-140	15		40
Hexachlorobutadiene	76		84		40-140	10		40
Naphthalene	75		84		40-140	11		40
Benzo(a)anthracene	96		109		40-140	13		40
Benzo(a)pyrene	95		109		40-140	14		40
Benzo(b)fluoranthene	93		109		40-140	16		40
Benzo(k)fluoranthene	98		110		40-140	12		40
Chrysene	97		112		40-140	14		40
Acenaphthylene	77		88		40-140	13		40
Anthracene	86		99		40-140	14		40
Benzo(ghi)perylene	82		87		40-140	6		40
Fluorene	85		97		40-140	13		40
Phenanthrene	96		109		40-140	13		40
Dibenzo(a,h)anthracene	85		92		40-140	8		40
Indeno(1,2,3-cd)pyrene	88		97		40-140	10		40
Pyrene	83		97		40-140	16		40
2-Methylnaphthalene	76		85		40-140	11		40
Pentachlorophenol	96		116		40-140	19		40
Hexachlorobenzene	98		110		40-140	12		40
Hexachloroethane	77		85		40-140	10		40
Bis(2-chloroethyl)ether	76		88		40-140	15		40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG2007589-2 WG2007589-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		61		21-120
Phenol-d6	40		48		10-120
Nitrobenzene-d5	76		88		23-120
2-Fluorobiphenyl	73		81		15-120
2,4,6-Tribromophenol	94		112		10-120
4-Terphenyl-d14	70		83		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01,04-05 Batch: WG2008475-2 WG2008475-3								
1,4-Dioxane	134		129		40-140	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	41		49		15-110

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2007588-4 WG2007588-5 QC Sample: L2472333-04 Client ID: PZ-6												
3,3'-Dichlorobenzidine	ND	20	16	80		14	70		40-140	13		30
2,4-Dinitrotoluene	ND	20	17	85		15	75		48-143	13		30
2,6-Dinitrotoluene	ND	20	20	100		17	85		40-140	16		30
4-Chlorophenyl phenyl ether	ND	20	16	80		14	70		40-140	13		30
4-Bromophenyl phenyl ether	ND	20	18	90		16	80		40-140	12		30
Bis(2-chloroisopropyl)ether	ND	20	19	95		16	80		40-140	17		30
Bis(2-chloroethoxy)methane	ND	20	17	85		15	75		40-140	13		30
Hexachlorocyclopentadiene	ND	20	8.8J	44		6.6J	33	Q	40-140	29		30
Isophorone	ND	20	18	90		16	80		40-140	12		30
Nitrobenzene	ND	20	18	90		15	75		40-140	18		30
NDPA/DPA	ND	20	17	85		15	75		40-140	13		30
n-Nitrosodi-n-propylamine	ND	20	18	90		16	80		29-132	12		30
Bis(2-ethylhexyl)phthalate	ND	20	19	95		17	85		40-140	11		30
Butyl benzyl phthalate	ND	20	19	95		17	85		40-140	11		30
Di-n-butylphthalate	ND	20	19	95		17	85		40-140	11		30
Di-n-octylphthalate	ND	20	19	95		18	90		40-140	5		30
Diethyl phthalate	ND	20	19	95		16	80		40-140	17		30
Dimethyl phthalate	ND	20	19	95		16	80		40-140	17		30
Biphenyl	ND	20	14	70		12	60		40-140	15		30
4-Chloroaniline	ND	20	17	85		15	75		40-140	13		30
2-Nitroaniline	ND	20	19	95		16	80		52-143	17		30
3-Nitroaniline	ND	20	16	80		14	70		25-145	13		30
4-Nitroaniline	ND	20	16	80		14	70		51-143	13		30

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2007588-4 WG2007588-5 QC Sample: L2472333-04 Client ID: PZ-6												
Dibenzofuran	ND	20	15	75		13	65		40-140	14		30
1,2,4,5-Tetrachlorobenzene	ND	20	15	75		12	60		2-134	22		30
Acetophenone	ND	20	16	80		13	65		39-129	21		30
2,4,6-Trichlorophenol	ND	20	11	55		8.0	40		30-130	32	Q	30
p-Chloro-m-cresol	ND	20	15	75		13	65		23-97	14		30
2-Chlorophenol	ND	20	9.6	48		7.3	37		27-123	27		30
2,4-Dichlorophenol	ND	20	10	50		8.4	42		30-130	17		30
2,4-Dimethylphenol	ND	20	11	55		9.6	48		30-130	14		30
2-Nitrophenol	ND	20	11	55		8.2J	41		30-130	29		30
4-Nitrophenol	ND	20	3.4J	17		1.9J	10		10-80	57	Q	30
2,4-Dinitrophenol	ND	20	ND	0	Q	ND	0	Q	20-130	NC		30
4,6-Dinitro-o-cresol	ND	20	12	60		9.4J	47		20-164	24		30
Phenol	0.94J	20	5.7	29		3.9J	20		12-110	38	Q	30
2-Methylphenol	ND	20	11	55		9.1	46		30-130	19		30
3-Methylphenol/4-Methylphenol	ND	20	9.2	46		7.5	38		30-130	20		30
2,4,5-Trichlorophenol	ND	20	12	60		9.3	47		30-130	25		30
Carbazole	ND	20	17	85		15	75		55-144	13		30
Atrazine	ND	20	22	110		20	100		40-140	10		30
Benzaldehyde	ND	20	16	80		13	65		40-140	21		30
Caprolactam	ND	20	9.2J	46		9.9J	50		10-130	7		30

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2007588-4 WG2007588-5 QC Sample: L2472333-04
Client ID: PZ-6

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	47		35		10-120
2-Fluorobiphenyl	84		69		15-120
2-Fluorophenol	28		21		21-120
4-Terphenyl-d14	83		72		41-149
Nitrobenzene-d5	83		73		23-120
Phenol-d6	22		17		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2007589-4 WG2007589-5 QC Sample: L2472333-04 Client ID: PZ-6												
Acenaphthene	ND	20	18	90		16	80		40-140	12		40
2-Chloronaphthalene	ND	20	16	80		14	70		40-140	13		40
Fluoranthene	ND	20	20	100		18	90		40-140	11		40
Hexachlorobutadiene	ND	20	14	70		11	55		40-140	24		40
Naphthalene	ND	20	16	80		13	65		40-140	21		40
Benzo(a)anthracene	ND	20	23	120		20	100		40-140	14		40
Benzo(a)pyrene	ND	20	23	120		20	100		40-140	14		40
Benzo(b)fluoranthene	ND	20	23	120		21	110		40-140	9		40
Benzo(k)fluoranthene	ND	20	25	130		21	110		40-140	17		40
Chrysene	ND	20	24	120		21	110		40-140	13		40
Acenaphthylene	ND	20	18	90		16	80		40-140	12		40
Anthracene	ND	20	21	110		18	90		40-140	15		40
Benzo(ghi)perylene	ND	20	20	100		17	85		40-140	16		40
Fluorene	ND	20	20	100		18	90		40-140	11		40
Phenanthrene	ND	20	23	120		20	100		40-140	14		40
Dibenzo(a,h)anthracene	ND	20	20	100		18	90		40-140	11		40
Indeno(1,2,3-cd)pyrene	ND	20	21	110		18	90		40-140	15		40
Pyrene	ND	20	20	100		18	90		40-140	11		40
2-Methylnaphthalene	ND	20	16	80		14	70		40-140	13		40
Pentachlorophenol	ND	20	10	50		6.3	32	Q	40-140	45	Q	40
Hexachlorobenzene	ND	20	23	120		19	95		40-140	19		40
Hexachloroethane	ND	20	15	75		12	60		40-140	22		40
Bis(2-chloroethyl)ether	ND	20	18	90		15	75		40-140	18		40

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2007589-4 WG2007589-5 QC Sample: L2472333-04 Client ID: PZ-6

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	80		60		10-120
2-Fluorobiphenyl	87		74		15-120
2-Fluorophenol	31		23		21-120
4-Terphenyl-d14	84		78		41-149
Nitrobenzene-d5	92		77		23-120
Phenol-d6	26		21		10-120

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01,04-05 QC Batch ID: WG2008475-4 WG2008475-5 QC Sample: L2472333-04 Client ID: PZ-6

1,4-Dioxane	ND	5	6.94	139		6.74	140		40-140	3		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,4-Dioxane-d8	38		36		15-110

METALS

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-01

Date Collected: 12/10/24 11:10

Client ID: MW-8S

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.381		mg/l	0.100	0.0318	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Barium, Total	0.0488		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Calcium, Total	12.8		mg/l	0.100	0.0350	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Chromium, Total	0.0036	J	mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Iron, Total	0.492		mg/l	0.0500	0.0090	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Magnesium, Total	5.66		mg/l	0.100	0.0153	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Manganese, Total	0.114		mg/l	0.0100	0.0016	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/16/24 18:24	12/16/24 22:27	EPA 245.1	3,245.1	MJR
Nickel, Total	0.0028	J	mg/l	0.0250	0.0024	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Potassium, Total	1.27	J	mg/l	2.50	0.237	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Sodium, Total	7.60		mg/l	2.00	0.120	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Zinc, Total	0.0034	J	mg/l	0.0050	0.0021	1	12/16/24 15:24	12/17/24 11:10	EPA 3005A	19,200.7	EFM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0462		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-01

Date Collected: 12/10/24 11:10

Client ID: MW-8S

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	13.1		mg/l	0.100	0.0350	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	5.52		mg/l	0.100	0.0153	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0984		mg/l	0.0100	0.0016	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/13/24 02:04	12/13/24 19:52	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.21	J	mg/l	2.50	0.237	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	7.78		mg/l	2.00	0.120	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0026	J	mg/l	0.0050	0.0021	1	12/12/24 23:30	12/13/24 13:55	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-02

Date Collected: 12/10/24 11:05

Client ID: MW-8D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.135		mg/l	0.100	0.0318	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Barium, Total	0.0310		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Calcium, Total	12.6		mg/l	0.100	0.0350	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Chromium, Total	0.0028	J	mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Iron, Total	0.252		mg/l	0.0500	0.0090	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Magnesium, Total	5.84		mg/l	0.100	0.0153	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Manganese, Total	0.0045	J	mg/l	0.0100	0.0016	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/16/24 18:24	12/16/24 22:30	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Potassium, Total	1.29	J	mg/l	2.50	0.237	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Sodium, Total	17.7		mg/l	2.00	0.120	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Zinc, Total	0.0061		mg/l	0.0050	0.0021	1	12/16/24 15:24	12/17/24 11:14	EPA 3005A	19,200.7	EFM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0315		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-02

Date Collected: 12/10/24 11:05

Client ID: MW-8D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	13.0		mg/l	0.100	0.0350	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	0.0021	J	mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	5.81		mg/l	0.100	0.0153	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/13/24 02:04	12/13/24 19:55	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.29	J	mg/l	2.50	0.237	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	17.9		mg/l	2.00	0.120	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0056		mg/l	0.0050	0.0021	1	12/12/24 23:30	12/13/24 13:59	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-03

Date Collected: 12/10/24 13:10

Client ID: MW-6D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0684	J	mg/l	0.100	0.0318	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Barium, Total	0.0123		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Calcium, Total	13.1		mg/l	0.100	0.0350	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Chromium, Total	0.0029	J	mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Iron, Total	0.122		mg/l	0.0500	0.0090	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Magnesium, Total	6.19		mg/l	0.100	0.0153	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Manganese, Total	0.0155		mg/l	0.0100	0.0016	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/16/24 18:24	12/16/24 22:33	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Potassium, Total	1.18	J	mg/l	2.50	0.237	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Sodium, Total	16.6		mg/l	2.00	0.120	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Zinc, Total	0.0033	J	mg/l	0.0050	0.0021	1	12/16/24 15:24	12/17/24 11:17	EPA 3005A	19,200.7	EFM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0119		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-03

Date Collected: 12/10/24 13:10

Client ID: MW-6D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	13.1		mg/l	0.100	0.0350	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	0.0021	J	mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	6.09		mg/l	0.100	0.0153	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0078	J	mg/l	0.0100	0.0016	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/13/24 02:04	12/13/24 19:59	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.18	J	mg/l	2.50	0.237	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	16.4		mg/l	2.00	0.120	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0026	J	mg/l	0.0050	0.0021	1	12/12/24 23:30	12/13/24 14:04	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-04

Date Collected: 12/10/24 13:18

Client ID: PZ-6

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Barium, Total	0.0813		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Calcium, Total	96.2		mg/l	0.100	0.0350	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Copper, Total	0.0034	J	mg/l	0.0100	0.0022	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Iron, Total	ND		mg/l	0.0500	0.0090	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Magnesium, Total	17.1		mg/l	0.100	0.0153	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Manganese, Total	0.0465		mg/l	0.0100	0.0016	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/16/24 18:24	12/16/24 21:44	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Potassium, Total	7.08		mg/l	2.50	0.237	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Sodium, Total	13.3		mg/l	2.00	0.120	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/16/24 15:24	12/17/24 09:43	EPA 3005A	19,200.7	EFM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0820		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-04

Date Collected: 12/10/24 13:18

Client ID: PZ-6

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	99.0		mg/l	0.100	0.0350	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Copper, Dissolved	0.0039	J	mg/l	0.0100	0.0022	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	17.2		mg/l	0.100	0.0153	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0575		mg/l	0.0100	0.0016	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/13/24 02:04	12/13/24 19:42	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	7.22		mg/l	2.50	0.237	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	13.7		mg/l	2.00	0.120	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/12/24 23:30	12/13/24 13:13	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-05

Date Collected: 12/10/24 12:00

Client ID: DUP_121024

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Barium, Total	0.0823		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Calcium, Total	98.0		mg/l	0.100	0.0350	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Copper, Total	0.0034	J	mg/l	0.0100	0.0022	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Iron, Total	0.0097	J	mg/l	0.0500	0.0090	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Magnesium, Total	17.3		mg/l	0.100	0.0153	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Manganese, Total	0.0554		mg/l	0.0100	0.0016	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/16/24 18:24	12/16/24 22:37	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Potassium, Total	7.29		mg/l	2.50	0.237	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Sodium, Total	13.6		mg/l	2.00	0.120	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/16/24 15:24	12/17/24 10:35	EPA 3005A	19,200.7	EFM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0811		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2472333-05

Date Collected: 12/10/24 12:00

Client ID: DUP_121024

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	98.6		mg/l	0.100	0.0350	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Copper, Dissolved	0.0036	J	mg/l	0.0100	0.0022	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	16.9		mg/l	0.100	0.0153	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0484		mg/l	0.0100	0.0016	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/13/24 02:04	12/13/24 20:02	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	7.08		mg/l	2.50	0.237	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	13.4		mg/l	2.00	0.120	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/12/24 23:30	12/13/24 14:09	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2008496-1										
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Barium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Calcium, Dissolved	ND		mg/l	0.100	0.0350	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Magnesium, Dissolved	ND		mg/l	0.100	0.0153	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Potassium, Dissolved	ND		mg/l	2.50	0.237	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Sodium, Dissolved	ND		mg/l	2.00	0.120	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/12/24 23:30	12/13/24 12:58	19,200.7	DMC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2008499-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/13/24 02:04	12/13/24 19:36	3,245.1	MJR



Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2009795-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Barium, Total	ND		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Calcium, Total	ND		mg/l	0.100	0.0350	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Iron, Total	0.0111	J	mg/l	0.0500	0.0090	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Magnesium, Total	ND		mg/l	0.100	0.0153	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Potassium, Total	ND		mg/l	2.50	0.237	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Sodium, Total	ND		mg/l	2.00	0.120	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/16/24 15:24	12/17/24 09:26	19,200.7	EFM

Prep Information

Digestion Method: EPA 3005A



Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2009798-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/16/24 18:24	12/16/24 21:37	3,245.1	MJR

Prep Information

Digestion Method: EPA 245.1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2008496-2								
Aluminum, Dissolved	112		-		85-115	-		
Antimony, Dissolved	100		-		85-115	-		
Arsenic, Dissolved	102		-		85-115	-		
Barium, Dissolved	104		-		85-115	-		
Beryllium, Dissolved	105		-		85-115	-		
Cadmium, Dissolved	102		-		85-115	-		
Calcium, Dissolved	107		-		85-115	-		
Chromium, Dissolved	104		-		85-115	-		
Cobalt, Dissolved	101		-		85-115	-		
Copper, Dissolved	102		-		85-115	-		
Iron, Dissolved	103		-		85-115	-		
Lead, Dissolved	102		-		85-115	-		
Magnesium, Dissolved	105		-		85-115	-		
Manganese, Dissolved	102		-		85-115	-		
Nickel, Dissolved	97		-		85-115	-		
Potassium, Dissolved	110		-		85-115	-		
Selenium, Dissolved	97		-		85-115	-		
Silver, Dissolved	110		-		85-115	-		
Sodium, Dissolved	108		-		85-115	-		
Thallium, Dissolved	106		-		85-115	-		
Vanadium, Dissolved	101		-		85-115	-		

Lab Control Sample Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2472333**Report Date:** 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2008496-2					
Zinc, Dissolved	97	-	85-115	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2008499-2					
Mercury, Dissolved	102	-	85-115	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2009795-2					
Aluminum, Total	106	-	85-115	-	
Antimony, Total	87	-	85-115	-	
Arsenic, Total	98	-	85-115	-	
Barium, Total	102	-	85-115	-	
Beryllium, Total	104	-	85-115	-	
Cadmium, Total	102	-	85-115	-	
Calcium, Total	106	-	85-115	-	
Chromium, Total	99	-	85-115	-	
Cobalt, Total	102	-	85-115	-	
Copper, Total	101	-	85-115	-	
Iron, Total	105	-	85-115	-	
Lead, Total	101	-	85-115	-	
Magnesium, Total	103	-	85-115	-	
Manganese, Total	101	-	85-115	-	
Nickel, Total	98	-	85-115	-	
Potassium, Total	109	-	85-115	-	
Selenium, Total	101	-	85-115	-	
Silver, Total	99	-	85-115	-	
Sodium, Total	109	-	85-115	-	
Thallium, Total	102	-	85-115	-	
Vanadium, Total	101	-	85-115	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2009795-2					
Zinc, Total	99	-	85-115	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2009798-2					
Mercury, Total	104	-	85-115	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2008496-3 WG2008496-4 QC Sample: L2472333-04 Client ID: PZ-6												
Aluminum, Dissolved	ND	2	2.25	112		2.29	114		75-125	2		20
Antimony, Dissolved	ND	0.5	0.538	108		0.552	110		75-125	3		20
Arsenic, Dissolved	ND	0.12	0.126	105		0.129	108		75-125	2		20
Barium, Dissolved	0.0820	2	2.17	104		2.22	107		75-125	2		20
Beryllium, Dissolved	ND	0.05	0.0523	105		0.0532	106		75-125	2		20
Cadmium, Dissolved	ND	0.053	0.0551	104		0.0565	107		75-125	3		20
Calcium, Dissolved	99.0	10	106	70	Q	108	90		75-125	2		20
Chromium, Dissolved	ND	0.2	0.206	103		0.209	104		75-125	1		20
Cobalt, Dissolved	ND	0.5	0.516	103		0.527	105		75-125	2		20
Copper, Dissolved	0.0039J	0.25	0.263	105		0.269	108		75-125	2		20
Iron, Dissolved	ND	1	1.02	102		1.03	103		75-125	1		20
Lead, Dissolved	ND	0.53	0.546	103		0.558	105		75-125	2		20
Magnesium, Dissolved	17.2	10	27.0	98		27.6	104		75-125	2		20
Manganese, Dissolved	0.0575	0.5	0.553	99		0.563	101		75-125	2		20
Nickel, Dissolved	ND	0.5	0.496	99		0.504	101		75-125	2		20
Potassium, Dissolved	7.22	10	18.2	110		18.5	113		75-125	2		20
Selenium, Dissolved	ND	0.12	0.126	105		0.130	108		75-125	3		20
Silver, Dissolved	ND	0.05	0.0558	112		0.0572	114		75-125	2		20
Sodium, Dissolved	13.7	10	24.1	104		24.5	108		75-125	2		20
Thallium, Dissolved	ND	0.12	0.126	105		0.129	108		75-125	2		20
Vanadium, Dissolved	ND	0.5	0.507	101		0.518	104		75-125	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2008496-3 WG2008496-4 QC Sample: L2472333-04 Client ID: PZ-6									
Zinc, Dissolved	ND	0.5	0.498	100	0.506	101	75-125	2	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2008499-3 WG2008499-4 QC Sample: L2472333-04 Client ID: PZ-6									
Mercury, Dissolved	ND	0.005	0.00486	97	0.00490	98	75-125	1	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2009795-3 WG2009795-4 QC Sample: L2472333-04 Client ID: PZ-6									
Aluminum, Total	ND	2	2.16	108	2.18	109	75-125	1	20
Antimony, Total	ND	0.5	0.451	90	0.463	93	75-125	3	20
Arsenic, Total	ND	0.12	0.128	107	0.128	107	75-125	0	20
Barium, Total	0.0813	2	2.13	102	2.14	103	75-125	0	20
Beryllium, Total	ND	0.05	0.0528	106	0.0533	107	75-125	1	20
Cadmium, Total	ND	0.053	0.0526	99	0.0535	101	75-125	2	20
Calcium, Total	96.2	10	107	108	107	108	75-125	0	20
Chromium, Total	ND	0.2	0.198	99	0.200	100	75-125	1	20
Cobalt, Total	ND	0.5	0.498	100	0.506	101	75-125	2	20
Copper, Total	0.0034J	0.25	0.258	103	0.262	105	75-125	2	20
Iron, Total	ND	1	1.04	104	1.05	105	75-125	1	20
Lead, Total	ND	0.53	0.544	103	0.550	104	75-125	1	20
Magnesium, Total	17.1	10	27.1	100	27.5	104	75-125	1	20
Manganese, Total	0.0465	0.5	0.549	100	0.553	101	75-125	1	20
Nickel, Total	ND	0.5	0.477	95	0.483	97	75-125	1	20
Potassium, Total	7.08	10	18.5	114	18.5	114	75-125	0	20
Selenium, Total	ND	0.12	0.130	108	0.131	109	75-125	1	20
Silver, Total	ND	0.05	0.0500	100	0.0511	102	75-125	2	20
Sodium, Total	13.3	10	24.6	113	24.5	112	75-125	0	20
Thallium, Total	ND	0.12	0.125	104	0.125	104	75-125	0	20
Vanadium, Total	ND	0.5	0.514	103	0.522	104	75-125	2	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2009795-3 WG2009795-4 QC Sample: L2472333-04 Client ID: PZ-6									
Zinc, Total	ND	0.5	0.489	98	0.497	99	75-125	2	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2009795-7		QC Sample: L2472333-05		Client ID: DUP_121024		
Aluminum, Total	ND	2	2.16	108	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.464	93	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.128	107	-	-	75-125	-	20
Barium, Total	0.0823	2	2.14	103	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.0530	106	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.0530	100	-	-	75-125	-	20
Calcium, Total	98.0	10	104	60	Q	-	75-125	-	20
Chromium, Total	ND	0.2	0.199	100	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.500	100	-	-	75-125	-	20
Copper, Total	0.0034J	0.25	0.261	104	-	-	75-125	-	20
Iron, Total	0.0097J	1	1.04	104	-	-	75-125	-	20
Lead, Total	ND	0.53	0.544	103	-	-	75-125	-	20
Magnesium, Total	17.3	10	26.8	95	-	-	75-125	-	20
Manganese, Total	0.0554	0.5	0.558	100	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.479	96	-	-	75-125	-	20
Potassium, Total	7.29	10	18.4	111	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.130	108	-	-	75-125	-	20
Silver, Total	ND	0.05	0.0504	101	-	-	75-125	-	20
Sodium, Total	13.6	10	24.3	107	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.125	104	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.518	104	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2009795-7		QC Sample: L2472333-05		Client ID: DUP_121024		
Zinc, Total	ND	0.5	0.491	98	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2009798-3		WG2009798-4 QC Sample: L2472333-04		Client ID: PZ-6		
Mercury, Total	ND	0.005	0.00486	97	0.00475	95	70-130	2	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2009798-5		QC Sample: L2472261-01		Client ID: MS Sample		
Mercury, Total	ND	0.005	0.00465	93	-	-	70-130	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2009795-8 QC Sample: L2472333-05 Client ID: DUP_121024						
Aluminum, Total	ND	ND	mg/l	NC		20
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.0823	0.0795	mg/l	3		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	98.0	94.3	mg/l	4		20
Chromium, Total	ND	ND	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	0.0034J	0.0035J	mg/l	NC		20
Iron, Total	0.0097J	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	17.3	16.8	mg/l	3		20
Manganese, Total	0.0554	0.0535	mg/l	3		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	7.29	7.00	mg/l	4		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	13.6	13.0	mg/l	5		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2472333
Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2009795-8 QC Sample: L2472333-05 Client ID: DUP_121024					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2009798-6 QC Sample: L2472261-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

**Lab Serial Dilution
Analysis**
Batch Quality Control

Lab Number: L2472333
Report Date: 01/27/25

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2008496-6 QC Sample: L2472333-04 Client ID: PZ-6						
Calcium, Dissolved	99.0	102.	mg/l	3		20
Magnesium, Dissolved	17.2	17.5	mg/l	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2009795-10 QC Sample: L2472333-05 Client ID: DUP_121024						
Calcium, Total	98.0	96.6	mg/l	1		20
Magnesium, Total	17.3	17.0	mg/l	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2009795-6 QC Sample: L2472333-04 Client ID: PZ-6						
Calcium, Total	96.2	95.5	mg/l	1		20
Magnesium, Total	17.1	16.7	mg/l	2		20

INORGANICS & MISCELLANEOUS

Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2472333-01

Date Collected: 12/10/24 11:10

Client ID: MW-8S

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:25	121,2320B	MKT
Alkalinity, Bicarbonate	18.2		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:25	121,2320B	MKT
Solids, Total Dissolved	91.		mg/l	13	4.0	1.3	-	12/14/24 18:18	121,2540C	REM
Solids, Total Suspended	59.		mg/l	5.0	NA	1	-	12/12/24 18:16	121,2540D	REM
Chloride	12.		mg/l	1.0	0.89	1	-	12/11/24 13:03	121,4500CL-E	JER
Fluoride	0.04	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/11/24 17:05	121,4500NO3-F	MRM
Nitrogen, Nitrate	2.46		mg/l	0.100	0.022	1	-	12/11/24 17:05	121,4500NO3-F	MRM
Nitrogen, Nitrate/Nitrite	2.4		mg/l	0.10	0.046	1	-	12/17/24 05:10	121,4500NO3-F	KAF
Total Nitrogen	2.4		mg/l	0.30	0.30	1	-	12/17/24 11:43	107,-	JRO
Nitrogen, Total Kjeldahl	0.149	J	mg/l	0.300	0.066	1	12/13/24 14:30	12/16/24 16:22	4,351.1	JO
Phosphate, Total	0.104		mg/l	0.031	0.012	1	12/13/24 09:38	12/13/24 12:00	121,4500P-E(M)	EYA
Sulfate	20.		mg/l	10	1.4	1	12/16/24 16:00	12/16/24 16:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.055		mg/l	0.050	0.013	1	-	12/12/24 18:19	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2472333-02

Date Collected: 12/10/24 11:05

Client ID: MW-8D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:27	121,2320B	MKT
Alkalinity, Bicarbonate	18.6		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:27	121,2320B	MKT
Solids, Total Dissolved	160		mg/l	13	4.0	1.3	-	12/14/24 18:18	121,2540C	REM
Solids, Total Suspended	11.		mg/l	5.0	NA	1	-	12/11/24 20:07	121,2540D	REM
Chloride	29.		mg/l	1.0	0.89	1	-	12/11/24 12:26	121,4500CL-E	JER
Fluoride	0.03	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/11/24 17:07	121,4500NO3-F	MRM
Nitrogen, Nitrate	3.93		mg/l	0.100	0.022	1	-	12/11/24 17:07	121,4500NO3-F	MRM
Nitrogen, Nitrate/Nitrite	3.9		mg/l	0.10	0.046	1	-	12/17/24 05:11	121,4500NO3-F	KAF
Total Nitrogen	24.		mg/l	0.30	0.30	1	-	12/17/24 11:43	107,-	JRO
Nitrogen, Total Kjeldahl	19.7		mg/l	0.300	0.066	1	12/13/24 14:30	12/16/24 16:26	4,351.1	JO
Phosphate, Total	0.037		mg/l	0.031	0.012	1	12/13/24 09:38	12/13/24 12:01	121,4500P-E(M)	EYA
Sulfate	14.		mg/l	10	1.4	1	12/16/24 16:00	12/16/24 16:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.044	J	mg/l	0.050	0.013	1	-	12/12/24 18:31	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2472333-03

Date Collected: 12/10/24 13:10

Client ID: MW-6D

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:29	121,2320B	MKT
Alkalinity, Bicarbonate	41.6		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:29	121,2320B	MKT
Solids, Total Dissolved	120		mg/l	13	4.0	1.3	-	12/14/24 18:18	121,2540C	REM
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/11/24 20:07	121,2540D	REM
Chloride	15.		mg/l	1.0	0.89	1	-	12/11/24 12:26	121,4500CL-E	JER
Fluoride	0.05	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/11/24 17:08	121,4500NO3-F	MRM
Nitrogen, Nitrate	1.83		mg/l	0.100	0.022	1	-	12/11/24 17:08	121,4500NO3-F	MRM
Nitrogen, Nitrate/Nitrite	1.8		mg/l	0.10	0.046	1	-	12/17/24 05:13	121,4500NO3-F	KAF
Total Nitrogen	2.3		mg/l	0.30	0.30	1	-	12/17/24 11:43	107,-	JRO
Nitrogen, Total Kjeldahl	0.462		mg/l	0.300	0.066	1	12/13/24 14:30	12/16/24 16:27	4,351.1	JO
Phosphate, Total	0.046		mg/l	0.031	0.012	1	12/13/24 09:38	12/13/24 12:02	121,4500P-E(M)	EYA
Sulfate	17.		mg/l	10	1.4	1	12/16/24 16:00	12/16/24 16:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.013	1	-	12/12/24 18:43	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2472333-04

Date Collected: 12/10/24 13:18

Client ID: PZ-6

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:32	121,2320B	MKT
Alkalinity, Bicarbonate	257.		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:32	121,2320B	MKT
Solids, Total Dissolved	360		mg/l	13	4.0	1.3	-	12/14/24 18:18	121,2540C	REM
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/11/24 20:07	121,2540D	REM
Chloride	15.		mg/l	1.0	0.89	1	-	12/11/24 12:29	121,4500CL-E	JER
Fluoride	0.08	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/11/24 17:13	121,4500NO3-F	MRM
Nitrogen, Nitrate	1.31		mg/l	0.100	0.022	1	-	12/11/24 17:13	121,4500NO3-F	MRM
Nitrogen, Nitrate/Nitrite	1.3		mg/l	0.10	0.046	1	-	12/17/24 05:14	121,4500NO3-F	KAF
Total Nitrogen	1.7		mg/l	0.30	0.30	1	-	12/17/24 11:43	107,-	JRO
Nitrogen, Total Kjeldahl	0.424		mg/l	0.300	0.066	1	12/13/24 14:30	12/16/24 16:28	4,351.1	JO
Phosphate, Total	0.187		mg/l	0.031	0.012	1	12/13/24 09:38	12/13/24 12:03	121,4500P-E(M)	EYA
Sulfate	30.		mg/l	20	2.7	2	12/16/24 16:00	12/16/24 16:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.041	J	mg/l	0.050	0.013	1	-	12/12/24 18:55	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2472333-05

Date Collected: 12/10/24 12:00

Client ID: DUP_121024

Date Received: 12/10/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:47	121,2320B	MKT
Alkalinity, Bicarbonate	263.		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:47	121,2320B	MKT
Solids, Total Dissolved	310		mg/l	13	4.0	1.3	-	12/14/24 18:18	121,2540C	REM
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/11/24 20:07	121,2540D	REM
Chloride	15.		mg/l	1.0	0.89	1	-	12/11/24 12:31	121,4500CL-E	JER
Fluoride	0.08	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/11/24 17:20	121,4500NO3-F	MRM
Nitrogen, Nitrate	1.35		mg/l	0.100	0.022	1	-	12/11/24 17:20	121,4500NO3-F	MRM
Nitrogen, Nitrate/Nitrite	1.3		mg/l	0.10	0.046	1	-	12/17/24 05:23	121,4500NO3-F	KAF
Total Nitrogen	1.7		mg/l	0.30	0.30	1	-	12/17/24 11:43	107,-	JRO
Nitrogen, Total Kjeldahl	0.429		mg/l	0.300	0.066	1	12/13/24 14:30	12/16/24 16:30	4,351.1	JO
Phosphate, Total	0.187		mg/l	0.031	0.012	1	12/13/24 09:38	12/13/24 12:05	121,4500P-E(M)	EYA
Sulfate	40.		mg/l	10	1.4	1	12/16/24 16:00	12/16/24 16:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.041	J	mg/l	0.050	0.013	1	-	12/12/24 19:07	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2472333

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2007824-1										
Chloride	ND		mg/l	1.0	0.89	1	-	12/11/24 11:35	121,4500CL-E	JER
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2007942-1										
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	12/11/24 15:28	121,4500NO3-F	MRM
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2007943-1										
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/11/24 15:34	121,4500NO3-F	MRM
General Chemistry - Westborough Lab for sample(s): 02-05 Batch: WG2008088-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/11/24 20:07	121,2540D	REM
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2008595-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/12/24 18:16	121,2540D	REM
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05 Batch: WG2008663-1										
Bromide	ND		mg/l	0.050	0.013	1	-	12/12/24 16:18	44,300.0	CVN
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2008726-1										
Phosphate, Total	ND		mg/l	0.031	0.012	1	12/13/24 09:38	12/13/24 11:57	121,4500P-E(M)	EYA
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2008818-1										
Nitrogen, Total Kjeldahl	0.140	J	mg/l	0.300	0.022	1	12/13/24 14:30	12/16/24 16:14	4,351.1	JO
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2008826-1										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:14	121,2320B	MKT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2008826-1										
Alkalinity, Bicarbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/13/24 09:14	121,2320B	MKT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2009305-1										
Solids, Total Dissolved	8.0	J	mg/l	10	3.1	1	-	12/14/24 18:18	121,2540C	REM
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2009320-1										
Fluoride	ND		mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2009705-1										
Sulfate	2.2	J	mg/l	10	1.4	1	12/16/24 16:00	12/16/24 16:00	121,4500SO4-E	MRW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2009972-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	12/17/24 03:52	121,4500NO3-F	KAF



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2007824-2								
Chloride	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2007942-2								
Nitrogen, Nitrate	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2007943-2								
Nitrogen, Nitrite	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02-05 Batch: WG2008088-2								
Solids, Total Suspended	98		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2008595-2								
Solids, Total Suspended	93		-		80-120	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 Batch: WG2008663-2								
Bromide	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2008726-2								
Phosphate, Total	99		-		84-118	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2008818-2					
Nitrogen, Total Kjeldahl	105	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2009305-2					
Solids, Total Dissolved	101	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2009320-2					
Fluoride	90	-	78-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2009705-2					
Sulfate	105	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2009972-2					
Nitrogen, Nitrate/Nitrite	100	-	90-110	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2007824-4			QC Sample: L2471924-01		Client ID: MS Sample			
Chloride	4.4	20	24	98		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2007824-6			QC Sample: L2472333-04		Client ID: PZ-6			
Chloride	15.	20	35	100		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2007942-4			QC Sample: L2472333-04		Client ID: PZ-6			
Nitrogen, Nitrate	1.31	4	5.07	94		-	-		83-113	-		17
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2007943-4			QC Sample: L2472333-04		Client ID: PZ-6			
Nitrogen, Nitrite	ND	4	3.90	98		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05					QC Batch ID: WG2008663-3		WG2008663-4		QC Sample: L2472333-04			
Client ID: PZ-6												
Bromide	0.041J	0.4	0.359	90		0.334	84	Q	90-110	7		20
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2008726-4			QC Sample: L2472333-04		Client ID: PZ-6			
Phosphate, Total	0.187	1.53	1.79	105		-	-		80-120	-		15
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2008818-4			QC Sample: L2472333-04		Client ID: PZ-6			
Nitrogen, Total Kjeldahl	0.424	8	9.40	112	Q	-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2009320-4			QC Sample: L2472333-04		Client ID: PZ-6			
Fluoride	0.08J	1	1.0	103		-	-		69-124	-		13
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2009705-4			QC Sample: L2472333-04		Client ID: PZ-6			
Sulfate	30.	80	120	111		-	-		55-147	-		14

Matrix Spike Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2472333**Report Date:** 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2009972-4 QC Sample: L2472333-04 Client ID: PZ-6									
Nitrogen, Nitrate/Nitrite	1.3	4	5.4	102	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2007824-3	QC Sample: L2471924-01	Client ID: DUP	Sample	
Chloride	4.4	4.4	mg/l	0		7
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2007824-5	QC Sample: L2472333-04	Client ID: PZ-6		
Chloride	15.	15	mg/l	0		7
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2007942-3	QC Sample: L2472333-04	Client ID: PZ-6		
Nitrogen, Nitrate	1.31	1.32	mg/l	1		17
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2007943-3	QC Sample: L2472333-04	Client ID: PZ-6		
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 02-05	QC Batch ID: WG2008088-3	QC Sample: L2472115-01	Client ID: DUP	Sample	
Solids, Total Suspended	71.	73	mg/l	3		32
General Chemistry - Westborough Lab	Associated sample(s): 02-05	QC Batch ID: WG2008088-4	QC Sample: L2472333-04	Client ID: PZ-6		
Solids, Total Suspended	ND	ND	mg/l	NC		32
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2008595-3	QC Sample: L2472363-01	Client ID: DUP	Sample	
Solids, Total Suspended	150	150	mg/l	0		32
General Chemistry - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG2008595-4	QC Sample: L2472519-02	Client ID: DUP	Sample	
Solids, Total Suspended	440	450	mg/l	2		32
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2008726-3	QC Sample: L2472333-04	Client ID: PZ-6		
Phosphate, Total	0.187	0.178	mg/l	5		15

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2472333

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2008818-3 QC Sample: L2472333-04 Client ID: PZ-6					
Nitrogen, Total Kjeldahl	0.424	0.665	mg/l	44	Q 24
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2008826-2 QC Sample: L2472333-04 Client ID: PZ-6					
Alkalinity, Carbonate	ND	ND	mg CaCO3/L	NC	10
Alkalinity, Bicarbonate	257.	255	mg CaCO3/L	1	9
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2009305-3 QC Sample: L2472333-03 Client ID: MW-6D					
Solids, Total Dissolved	120	130	mg/l	8	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2009305-4 QC Sample: L2472333-04 Client ID: PZ-6					
Solids, Total Dissolved	360	360	mg/l	0	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2009320-3 QC Sample: L2472333-04 Client ID: PZ-6					
Fluoride	0.08J	0.08J	mg/l	NC	13
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2009705-3 QC Sample: L2472333-04 Client ID: PZ-6					
Sulfate	30.	30	mg/l	0	14
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2009972-3 QC Sample: L2472333-04 Client ID: PZ-6					
Nitrogen, Nitrate/Nitrite	1.3	1.3	mg/l	0	20

Project Name: CORAM MATERIALS**Lab Number:** L2472333**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler Custody Seal**

A	Absent
B	Absent
C	Absent
D	Absent
E	Absent
F	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472333-01A	Vial HCl preserved	D	NA		4.1	Y	Absent		NYTCL-8260(14)
L2472333-01B	Vial HCl preserved	D	NA		4.1	Y	Absent		NYTCL-8260(14)
L2472333-01C	Vial HCl preserved	D	NA		4.1	Y	Absent		NYTCL-8260(14)
L2472333-01D	Plastic 250ml unpreserved/No Headspace	D	NA		4.1	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2472333-01E	Plastic 250ml HNO3 preserved	D	<2	<2	4.1	Y	Absent		SB-UI(180),BA-UI(180),NI-UI(180),AG-UI(180),CA-UI(180),ZN-UI(180),CO-UI(180),K-UI(180),FE-UI(180),MG-UI(180),SE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),BE-UI(180),MN-UI(180),NA-UI(180),CR-UI(180),PB-UI(180),V-UI(180),TL-UI(180),AS-UI(180),CU-UI(180)
L2472333-01F	Plastic 250ml HNO3 preserved	D	<2	<2	4.1	Y	Absent		FE-RI(180),ZN-RI(180),SE-RI(180),BE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CU-RI(180),CO-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),HG-R(28),AG-RI(180),NI-RI(180),CR-RI(180),NA-RI(180),PB-RI(180),AS-RI(180),V-RI(180),CD-RI(180)
L2472333-01G	Plastic 500ml H2SO4 preserved	D	<2	<2	4.1	Y	Absent		SUB-AMMONIUM(28)
L2472333-01H	Amber 100ml unpreserved	D	7	7	4.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-01I	Amber 100ml unpreserved	D	7	7	4.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Serial_No: 01272515:16
Lab Number: L2472333
Report Date: 01/27/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472333-01J	Amber 250ml unpreserved	E	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-01K	Amber 250ml unpreserved	E	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-01L	Plastic 250ml unpreserved	D	7	7	4.1	Y	Absent		SUB-IODIDE(7)
L2472333-01M	Plastic 950ml unpreserved	D	7	7	4.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2472333-01N	Plastic 950ml unpreserved	D	7	7	4.1	Y	Absent		TSS-2540(7)
L2472333-01O	Amber 950ml H2SO4 preserved	D	<2	<2	4.1	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2472333-02A	Vial HCl preserved	B	NA		5.1	Y	Absent		NYTCL-8260(14)
L2472333-02B	Vial HCl preserved	B	NA		5.1	Y	Absent		NYTCL-8260(14)
L2472333-02C	Vial HCl preserved	B	NA		5.1	Y	Absent		NYTCL-8260(14)
L2472333-02D	Plastic 250ml unpreserved/No Headspace	B	NA		5.1	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2472333-02E	Plastic 250ml HNO3 preserved	B	<2	<2	5.1	Y	Absent		BA-UI(180),SB-UI(180),NI-UI(180),ZN-RI(180),ZN-UI(180),CA-UI(180),AG-UI(180),K-UI(180),CO-UI(180),MG-UI(180),SE-UI(180),FE-UI(180),HG-U(28),CD-UI(180),CR-UI(180),MN-UI(180),AL-UI(180),BE-UI(180),NA-UI(180),AS-UI(180),TL-UI(180),CU-UI(180),PB-UI(180),V-UI(180)
L2472333-02F	Plastic 250ml HNO3 preserved	B	<2	<2	5.1	Y	Absent		FE-RI(180),SE-RI(180),BE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CU-RI(180),SB-RI(180),CO-RI(180),BA-RI(180),CA-RI(180),AG-RI(180),HG-R(28),NI-RI(180),CR-RI(180),CD-RI(180),NA-RI(180),V-RI(180),PB-RI(180),AS-RI(180)
L2472333-02G	Plastic 500ml H2SO4 preserved	B	7	7	5.1	Y	Absent		SUB-AMMONIUM(28)
L2472333-02H	Amber 100ml unpreserved	B	7	7	5.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-02I	Amber 100ml unpreserved	B	7	7	5.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-02J	Plastic 250ml unpreserved	B	7	7	5.1	Y	Absent		SUB-IODIDE(7)
L2472333-02K	Plastic 950ml unpreserved	B	7	7	5.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2472333-02L	Plastic 950ml unpreserved	B	7	7	5.1	Y	Absent		TSS-2540(7)

Project Name: CORAM MATERIALS
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472333-02M	Amber 950ml H2SO4 preserved	B	<2	<2	5.1	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2472333-03A	Vial HCl preserved	D	NA		4.1	Y	Absent		NYTCL-8260(14)
L2472333-03B	Vial HCl preserved	D	NA		4.1	Y	Absent		NYTCL-8260(14)
L2472333-03C	Vial HCl preserved	D	NA		4.1	Y	Absent		NYTCL-8260(14)
L2472333-03D	Plastic 250ml unpreserved/No Headspace	D	NA		4.1	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2472333-03E	Plastic 250ml HNO3 preserved	D	<2	<2	4.1	Y	Absent		SB-UI(180),NI-UI(180),BA-UI(180),ZN-RI(180),CA-UI(180),ZN-UI(180),AG-UI(180),K-UI(180),CO-UI(180),MG-UI(180),FE-UI(180),SE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),BE-UI(180),NA-UI(180),CR-UI(180),MN-UI(180),AS-UI(180),PB-UI(180),TL-UI(180),CU-UI(180),V-UI(180)
L2472333-03F	Plastic 250ml HNO3 preserved	D	<2	<2	4.1	Y	Absent		FE-RI(180),BE-RI(180),K-RI(180),SE-RI(180),MG-RI(180),AL-RI(180),MN-RI(180),TL-RI(180),SB-RI(180),CO-RI(180),CU-RI(180),BA-RI(180),CA-RI(180),CR-RI(180),NI-RI(180),HG-R(28),AG-RI(180),AS-RI(180),NA-RI(180),V-RI(180),PB-RI(180),CD-RI(180)
L2472333-03G	Plastic 500ml H2SO4 preserved	D	<2	<2	4.1	Y	Absent		SUB-AMMONIUM(28)
L2472333-03H	Amber 100ml unpreserved	D	7	7	4.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-03I	Amber 100ml unpreserved	D	7	7	4.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-03J	Plastic 250ml unpreserved	D	7	7	4.1	Y	Absent		SUB-IODIDE(7)
L2472333-03K	Plastic 950ml unpreserved	D	7	7	4.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2472333-03L	Plastic 950ml unpreserved	D	7	7	4.1	Y	Absent		TSS-2540(7)
L2472333-03M	Amber 950ml H2SO4 preserved	D	<2	<2	4.1	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2472333-04A	Vial HCl preserved	F	NA		2.8	Y	Absent		NYTCL-8260(14)
L2472333-04A1	Vial HCl preserved	F	NA		2.8	Y	Absent		NYTCL-8260(14)
L2472333-04A2	Vial HCl preserved	C	NA		2.9	Y	Absent		NYTCL-8260(14)
L2472333-04B	Vial HCl preserved	F	NA		2.8	Y	Absent		NYTCL-8260(14)

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472333-04B1	Vial HCl preserved	F	NA		2.8	Y	Absent		NYTCL-8260(14)
L2472333-04B2	Vial HCl preserved	C	NA		2.9	Y	Absent		NYTCL-8260(14)
L2472333-04C	Vial HCl preserved	F	NA		2.8	Y	Absent		NYTCL-8260(14)
L2472333-04C1	Vial HCl preserved	F	NA		2.8	Y	Absent		NYTCL-8260(14)
L2472333-04C2	Vial HCl preserved	C	NA		2.9	Y	Absent		NYTCL-8260(14)
L2472333-04D	Plastic 250ml unpreserved/No Headspace	F	NA		2.8	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2472333-04D1	Plastic 250ml unpreserved/No Headspace	F	NA		2.8	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2472333-04D2	Plastic 250ml unpreserved/No Headspace	C	NA		2.9	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2472333-04E	Plastic 250ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),AG-UI(180),ZN-UI(180),CA-UI(180),K-UI(180),CO-UI(180),FE-UI(180),SE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),AL-UI(180),BE-UI(180),NA-UI(180),CR-UI(180),MN-UI(180),V-UI(180),CU-UI(180),PB-UI(180),AS-UI(180),TL-UI(180)
L2472333-04E1	Plastic 250ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),AG-UI(180),ZN-UI(180),CA-UI(180),K-UI(180),CO-UI(180),FE-UI(180),SE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),AL-UI(180),BE-UI(180),NA-UI(180),CR-UI(180),MN-UI(180),V-UI(180),CU-UI(180),PB-UI(180),AS-UI(180),TL-UI(180)
L2472333-04E2	Plastic 250ml HNO3 preserved	C	<2	<2	2.9	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),AG-UI(180),ZN-UI(180),CA-UI(180),K-UI(180),CO-UI(180),FE-UI(180),SE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),AL-UI(180),BE-UI(180),NA-UI(180),CR-UI(180),MN-UI(180),V-UI(180),CU-UI(180),PB-UI(180),AS-UI(180),TL-UI(180)
L2472333-04F	Plastic 250ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),K-RI(180),SE-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),AG-RI(180),CR-RI(180),HG-R(28),NI-RI(180),V-RI(180),PB-RI(180),AS-RI(180),CD-RI(180),NA-RI(180)

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Serial_No: 01272515:16
Lab Number: L2472333
Report Date: 01/27/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472333-04F1	Plastic 250ml HNO3 preserved	F	<2	<2	2.8	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),K-RI(180),SE-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),AG-RI(180),CR-RI(180),HG-R(28),NI-RI(180),V-RI(180),PB-RI(180),AS-RI(180),CD-RI(180),NA-RI(180)
L2472333-04F2	Plastic 250ml HNO3 preserved	C	<2	<2	2.9	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),K-RI(180),SE-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),AG-RI(180),CR-RI(180),HG-R(28),NI-RI(180),V-RI(180),PB-RI(180),AS-RI(180),CD-RI(180),NA-RI(180)
L2472333-04G	Plastic 500ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		SUB-AMMONIUM(28)
L2472333-04G1	Plastic 500ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		SUB-AMMONIUM(28)
L2472333-04G2	Plastic 500ml H2SO4 preserved	C	<2	<2	2.9	Y	Absent		SUB-AMMONIUM(28)
L2472333-04H	Amber 100ml unpreserved	F	7	7	2.8	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-04H1	Amber 100ml unpreserved	F	7	7	2.8	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-04H2	Amber 100ml unpreserved	C	7	7	2.9	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-04I	Amber 100ml unpreserved	F	7	7	2.8	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-04I1	Amber 100ml unpreserved	F	7	7	2.8	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-04I2	Amber 100ml unpreserved	C	7	7	2.9	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-04J	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-04J1	Amber 250ml unpreserved	E	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-04J2	Amber 250ml unpreserved	E	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-04K	Amber 250ml unpreserved	F	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-04K1	Amber 250ml unpreserved	E	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-04K2	Amber 250ml unpreserved	E	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-04L	Plastic 250ml unpreserved	F	7	7	2.8	Y	Absent		SUB-IODIDE(7)
L2472333-04L1	Plastic 250ml unpreserved	F	7	7	2.8	Y	Absent		SUB-IODIDE(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472333-04L2	Plastic 250ml unpreserved	C	7	7	2.9	Y	Absent		SUB-IODIDE(7)
L2472333-04M	Plastic 950ml unpreserved	F	7	7	2.8	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2472333-04M1	Plastic 950ml unpreserved	F	7	7	2.8	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2472333-04M2	Plastic 950ml unpreserved	C	7	7	2.9	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2472333-04N	Plastic 950ml unpreserved	F	7	7	2.8	Y	Absent		TSS-2540(7)
L2472333-04N1	Plastic 950ml unpreserved	F	7	7	2.8	Y	Absent		TSS-2540(7)
L2472333-04N2	Plastic 950ml unpreserved	C	7	7	2.9	Y	Absent		TSS-2540(7)
L2472333-04O	Amber 950ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2472333-04O1	Amber 950ml H2SO4 preserved	F	<2	<2	2.8	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2472333-04O2	Amber 950ml H2SO4 preserved	C	<2	<2	2.9	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2472333-05A	Vial HCl preserved	C	NA		2.9	Y	Absent		NYTCL-8260(14)
L2472333-05B	Vial HCl preserved	C	NA		2.9	Y	Absent		NYTCL-8260(14)
L2472333-05C	Vial HCl preserved	C	NA		2.9	Y	Absent		NYTCL-8260(14)
L2472333-05D	Plastic 250ml unpreserved/No Headspace	C	NA		2.9	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2472333-05E	Plastic 250ml HNO3 preserved	C	<2	<2	2.9	Y	Absent		SB-UI(180),BA-UI(180),NI-UI(180),ZN-UI(180),AG-UI(180),CA-UI(180),CO-UI(180),K-UI(180),MG-UI(180),SE-UI(180),FE-UI(180),HG-U(28),CD-UI(180),NA-UI(180),BE-UI(180),AL-UI(180),CR-UI(180),MN-UI(180),PB-UI(180),TL-UI(180),CU-UI(180),AS-UI(180),V-UI(180)
L2472333-05F	Plastic 250ml HNO3 preserved	C	<2	<2	2.9	Y	Absent		FE-RI(180),ZN-RI(180),SE-RI(180),BE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),MN-RI(180),TL-RI(180),CU-RI(180),SB-RI(180),CO-RI(180),BA-RI(180),CA-RI(180),HG-R(28),AG-RI(180),CR-RI(180),NI-RI(180),CD-RI(180),NA-RI(180),PB-RI(180),V-RI(180),AS-RI(180)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2472333-05G	Plastic 500ml H2SO4 preserved	C	<2	<2	2.9	Y	Absent		SUB-AMMONIUM(28)
L2472333-05H	Amber 100ml unpreserved	C	7	7	2.9	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-05I	Amber 100ml unpreserved	C	7	7	2.9	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2472333-05J	Amber 250ml unpreserved	E	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-05K	Amber 250ml unpreserved	E	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2472333-05L	Plastic 250ml unpreserved	C	7	7	2.9	Y	Absent		SUB-IODIDE(7)
L2472333-05M	Plastic 950ml unpreserved	C	7	7	2.9	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2472333-05N	Plastic 950ml unpreserved	C	7	7	2.9	Y	Absent		TSS-2540(7)
L2472333-05O	Amber 950ml H2SO4 preserved	C	<2	<2	2.9	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2472333-06A	Vial HCl preserved	C	NA		2.9	Y	Absent		NYTCL-8260(14)
L2472333-06B	Vial HCl preserved	C	NA		2.9	Y	Absent		NYTCL-8260(14)

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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.

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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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.)

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 107 Calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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Certification Information

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, SM4500CI-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, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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**

Pace Analytical Services LLCID No.: **17873**Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: Certificate/Approval Program Summary

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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


**NEW YORK
CHAIN OF
CUSTODY**

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1

of 3

Date Rec'd
in Lab

12/11/24

L2472333 17DEC24
ROUX - NY

Project Information

Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Road
Project #: 2232.0006Y005

(Use Project name as Project #)

Project Manager: Julia Michaels
ALPHAQuote #: 28577

Turn-Around Time

☒ Standard Due Date:
Rush (only if pre-approved) # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQUIS (1 File) ☐ EQUIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of
applicable disposal facilities.

Disposal Facility:

☐ NJ ☐ NY
Other:

Client Information

Client: ROUX Env.Eng.&Geology, DPC

Address: 209 Shafter Street

Islandia, NY 11749-5074

Phone: 631-232-2600

Fax:

Email: jmichaels@rouxinc.com

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	TDS-2540	Cl4500/Br-300	NO3-4500	NO2-4500	TOTALNITROGEN(tkn 35)
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X							

Sample Filtration

☒ Done
☐ Lab to do
Preservation
☐ Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	TDS-2540	Cl4500/Br-300	NO3-4500	NO2-4500	TOTALNITROGEN(tkn 35)	Sample Specific Comments	Total Bottles
		Date	Time												
12333 -01	MW-8S	12/10/24	1110	AQ	AI	X	X	X	X	X	X	X	X		16
-02	MW-8D	12/10/24	1105	AQ	JC	X	X	X	X	X	X	X	X		14
-03	MW-6D	12/10/24	1310	AQ	JC	X	X	X	X	X	X	X	X		14
-04	PZ-6	12/10/24	1318	AQ	AI	X	X	X	X	X	X	X	X	MS/MSD	48
-05	DUP-121024	12/10/24	1200	AQ	AT	X	X	X	X	X	X	X	X		16
-06	TRIP BLANK	12/10/24	LAB	AQ	MC	X									2

Preservative Code:

A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code

P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935

Mansfield: Certification No: MA015

Container Type

V A P A P A A A

Preservative

B A C A A D D D

Please print clearly, legibly
and completely. Samples can
not be logged in and
turnaround time clock will not
start until any ambiguities are
resolved. BY EXECUTING
THIS COC, THE CLIENT
HAS READ AND AGREES
TO BE BOUND BY ALPHA'S
TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 3		Date Rec'd in Lab 12/11/24		ALPHA Job # L2472333							
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place Yaphank Rd Project # 2232.00006 (Use Project name as Project #) Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Standard Due Date: Rush (only if pre approved) # of Days:		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #							
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmmichaels@rouxinc.com		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:											
These samples have been previously analyzed by Alpha Other project specific requirements/comments: SUB IODIDE send from WB to PACE INDY/ SUB AMMONIUM send from WB to Galbraith Laboratories Please specify Metals or TAL.		ANALYSIS SO4-4500 Alk-HCO3-2320 Alk-CO3-2320 F-4500 TPO4-4500 SUB-IODIDE SUB-AMMONIUM A2-1,4-DIOXANE-SIM		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)											
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SO4-4500	Alk-HCO3-2320	Alk-CO3-2320	F-4500	TPO4-4500	SUB-IODIDE	SUB-AMMONIUM	A2-1,4-DIOXANE-SIM	Sample Specific Comments	Total Bottles
12333 -01	MW-8S	12/10/24	1120	AQ	AI	X	X	X	X	X	X	X	X		16
-02	MW-8D	12/10/24	1105	AQ	JC	X	X	X	X	X	X	X	X		14
-03	MW-6D	12/10/24	1310	AQ	JC	X	X	X	X	X	X	X	X		14
-04	P2-6	12/10/24	1318	AQ	AI	X	X	X	X	X	X	X	X	MS/MSD	48
-05	DWP-121024	12/10/24	1200	AQ	AI	X	X	X	X	X	X	X	X		16
-06	TRIP BLANK	12/10/24	LAB	AQ	MC										2
Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P P P P A P P A		Preservative A A A A D A D A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.					
Relinquished By:		Date/Time		Received By:		Date/Time									
Anthony Green		12/10/24 0130		Anthony Green		12/11/24 0136									
12/11/24 0330		12/11/24 0330		12/11/24 0330		12/11/24 0330									

 ALPHA ANALYTICAL LABORATORY	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 3 of 3	Date Rec'd In Lab 12/11/24	ALPHA Job # L2472333	
		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place - Yaphank Rd Project # 2232.0006Y005 (Use Project name as Project #)		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #
		Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:
Turn-Around Time ☐ Standard Due Date: ☐ Rush (only if pre approved) # of Days:				ANALYSIS		
These samples have been previously analyzed by Alpha Other project specific requirements/comments: Sub SULFIDE courier to PACE MELVILLE Please specify Metals or TAL.				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix	Sampler's Initials	SUB-SULFIDE	Total Bottle
		Date Time				
72333 -01	MW-8S	12/10/24 1110	AQ	AT	X	16
-02	MW-8D	12/10/24 1105	AQ	JC	X	14
-03	MW-6D	12/10/24 1310	AQ	JL	X	14
-04	PZ-6	12/10/24 1318	AQ	AT	X	MS/MSD 48
-05	DVP 121024	12/10/24 1200	AQ	AI	X	16
-06	TRIP BLANK	12/10/24 1200	AQ	MC	X	2
Preservative Code:		Container Code		Westboro: Certification No: MA935		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015		
				Container Type P		
				Preservative C		
Relinquished By:		Date/Time		Received By:		Date/Time
Anthony Green		12/10/24 0130		Pace		12/10 15:00
Ces		12/11/24 0330		Anthony Green		DEC 10 2024 0900
				Julia		12/11 3:30

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1		Date Rec'd in Lab 12/11/24		L2472327 17DEC24 ROUX - NY						
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information				Deliverables		Billing Information			
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com				Project Name: CORAM MATERIALS Project Location: 416 Miller Place - Yaphank Road, Miller Place, NY Project #: 2232.0006Y005 (Use Project name as Project #) Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time ☒ Standard Due Date: ☐ Rush (only if pre approved) # of Days:				☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		☐ Same as Client Info PO #			
				Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:					
These samples have been previously analyzed by Alpha Other project specific requirements/comments: SUB Uranium/Thorium/RA226/RA228 Send to PACE Greensburg Please specify Metals or TAL.				ANALYSIS Sub-Uranium: HASL 300 Sub-Thorium: HASL 300 Sub-Ra226: 904.0 Sub-Ra226: 903.1				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottle			
								Sample Specific Comments					
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix	Sampler's Initials						
~~72327~~ 72333-08 09		PZ-6-R MW-8S-R DUP_121024_R		12/10/24 1318 12/10/24 1110 12/10/24 1200		AQ AQ AQ	AI AI AI	X X X X X X X X X X X X					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		P P P P C C C C					
Form No: 01-25 (rev. 30-Sept-2013)						Relinquished By:		Date/Time		Received By:		Date/Time	
						Anthony Green 12/11/24 0330		Anthony Green 12/10 15:00 DEC 10 2024 12/11/24 0130		Julie 12/11/24 3:30			

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Laboratory Report

Report prepared for:

Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581

Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:

Debbie S Robertson

Purchase Order:**For further assistance, contact:**

Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2472333 MW-8S		Received: 2024-12-12			
Lab ID: 2024-V-2593					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.10 mg	2024-12-13

Sample: L2472333 MW-8D		Received: 2024-12-12			
Lab ID: 2024-V-2594					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.83 mg	2024-12-13

Sample: L2472333 MW-6D		Received: 2024-12-12			
Lab ID: 2024-V-2595					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.71 mg	2024-12-13

Sample: L2472333 PZ-6		Received: 2024-12-12			
Lab ID: 2024-V-2596					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	201.95 mg	2024-12-13

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Reported results are only applicable to the item tested.

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Sample: L2472333 PZ-6 +ms		Received: 2024-12-12			
Lab ID: 2024-V-2597					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	203.98 mg	2024-12-13

Sample: L2472333 PZ-6 +sd		Received: 2024-12-12			
Lab ID: 2024-V-2598					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	202.50 mg	2024-12-13

Sample: L2472333 DUP_121024		Received: 2024-12-12			
Lab ID: 2024-V-2599					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	203.51 mg	2024-12-13

Signatures:

Published By: Debbie.S.Robertson
 Created By: Debbie.S.Robertson

2024-12-17T15:18:01.53-05:00
 2024-12-17T15:17:42.203-05:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.



December 20, 2024

Jennifer Byrnes

,

RE: Project: L2472333
Pace Project No.: 70327910

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2472333
Pace Project No.: 70327910

Pace Analytical Services, LLC - Melville, NY
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Texas Certification #: T104704582
Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L2472333

Pace Project No.: 70327910

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70327910001	MW-8S	Water	12/10/24 11:10	12/12/24 08:00
70327910002	MW-8D	Water	12/10/24 11:05	12/12/24 08:00
70327910003	MW-6D	Water	12/10/24 13:10	12/12/24 08:00
70327910004	PZ-6	Water	12/10/24 13:18	12/12/24 08:00
70327910005	DUP_121024	Water	12/10/24 12:00	12/12/24 08:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L2472333

Pace Project No.: 70327910

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70327910001	MW-8S	SM22 4500-S2 F	JWM	1
70327910002	MW-8D	SM22 4500-S2 F	JWM	1
70327910003	MW-6D	SM22 4500-S2 F	JWM	1
70327910004	PZ-6	SM22 4500-S2 F	JWM	1
70327910005	DUP_121024	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: L2472333
Pace Project No.: 70327910

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: December 20, 2024

General Information:

5 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.

- DUP_121024 (Lab ID: 70327910005)
- MW-6D (Lab ID: 70327910003)
- MW-8D (Lab ID: 70327910002)
- MW-8S (Lab ID: 70327910001)
- PZ-6 (Lab ID: 70327910004)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 376503

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70327910004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1973838)
 - Sulfide
- MSD (Lab ID: 1973839)
 - Sulfide

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 70327910

Sample: MW-8S Lab ID: 70327910001 Collected: 12/10/24 11:10 Received: 12/12/24 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	<0.20	mg/L	2.0	0.20	1		12/19/24 15:28		H1

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 70327910

Sample: MW-8D Lab ID: 70327910002 Collected: 12/10/24 11:05 Received: 12/12/24 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	<0.20	mg/L	2.0	0.20	1		12/19/24 15:31		H1

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 70327910

Sample: MW-6D Lab ID: 70327910003 Collected: 12/10/24 13:10 Received: 12/12/24 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	<0.20	mg/L	2.0	0.20	1		12/19/24 15:34		H1

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 70327910

Sample: PZ-6 Lab ID: 70327910004 Collected: 12/10/24 13:18 Received: 12/12/24 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	2.0	mg/L	2.0	0.20	1		12/20/24 15:07		H1,M1

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 70327910

Sample: DUP_121024 Lab ID: 70327910005 Collected: 12/10/24 12:00 Received: 12/12/24 08:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	<0.20	mg/L	2.0	0.20	1		12/20/24 15:17		H1

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QUALITY CONTROL DATA

Project: L2472333

Pace Project No.: 70327910

QC Batch: 376334

Analysis Method: SM22 4500-S2 F

QC Batch Method: SM22 4500-S2 F

Analysis Description: 4500S2F W Sulfide Iodometric

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70327910001, 70327910002, 70327910003

METHOD BLANK: 1972913

Matrix: Water

Associated Lab Samples: 70327910001, 70327910002, 70327910003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	12/19/24 15:22	

LABORATORY CONTROL SAMPLE & LCSD: 1972914

1972915

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: L2472333

Pace Project No.: 70327910

QC Batch: 376503

Analysis Method: SM22 4500-S2 F

QC Batch Method: SM22 4500-S2 F

Analysis Description: 4500S2F W Sulfide Iodometric

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70327910004, 70327910005

METHOD BLANK: 1973836

Matrix: Water

Associated Lab Samples: 70327910004, 70327910005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	12/20/24 15:03	

LABORATORY CONTROL SAMPLE: 1973837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	14	14.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1973838 1973839

Parameter	Units	70327910004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	2.0	2.8	2.8	1.6J	1.7J	-13	-11	70-130		20	H1,M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: L2472333
Pace Project No.: 70327910

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2472333

Pace Project No.: 70327910

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70327910001	MW-8S	SM22 4500-S2 F	376334		
70327910002	MW-8D	SM22 4500-S2 F	376334		
70327910003	MW-6D	SM22 4500-S2 F	376334		
70327910004	PZ-6	SM22 4500-S2 F	376503		
70327910005	DUP_121024	SM22 4500-S2 F	376503		

REPORT OF LABORATORY ANALYSIS

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WO#: 70327910



70327910

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2472333

Page 1

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To: west.subreports@pacelabs.com
Bill To: invoices@pacelabs.coupa.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

Report to MDL

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2472333 Report to include Method and/or Regulatory required batch QC

Additional Comments: SPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2472333-01 L2472333-02 L2472333-03 L2472333-04 L2472333-05	MW-8S MW-8D MW-6D PZ-6 DUP_121024	12-10-24 11:10 12-10-24 11:05 12-10-24 13:10 12-10-24 13:18 12-10-24 12:00	WATER WATER WATER WATER WATER	Sulfide Sulfide Sulfide Sulfide Sulfide		MS:MSD	0 0 0 0 0
Relinquished By:			Date/Time:			Received By:		
Claudia, Dorcas Pace			12/11/24 12:10			Claudia, Dorcas Pace		
Pace			12/12 8:20			Pace		
Pace			12/12 8:20			Pace		
Form No: AL_subcoc								

ALPHA

Client:

Profile #:

10678

Work ID:

L2472333

COC Page

of

☐ Use Point Number Spreadsheet

☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</

Client Name:

ALPHA

Project #

PM: BDR

Due Date: 12/23/24

CLIENT: ALPHA

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pack ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☐ Non ☐ Other Type of Ice: Wet Blue NoneThermometer Used: Ther Correction Factor: 0 ☐ Samples on ice, cooling process has begun
Cooler Temperature (°C): 3.2 Cooler Temperature Corrected (°C): 3.2 Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6.0°CUSDA Regulated Soil ☒ N/A, water sample)Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX,
or VA (check map)? ☐ Yes ☐ NoDid samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: MPR 12/16

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6.
Rush Turn Around Time Requested ☒ Yes ☐ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	10.
Containers Intact: ☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests ☒ Yes ☐ No ☐ N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	

Date and Initials of person checking preservation: MPR 12/16

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #	Sample #
All containers needing preservation are found to be in compliance with method recommendation? ☒ Yes ☐ No ☐ N/A	
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, ☒ Yes ☐ No ☐ N/A	
NAOH > 12 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	
Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☒ Yes ☐ No ☐ N/A	14.
KI starch test strips Lot #	Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	15.
SM 4500 CN samples checked for sul ☒ Yes ☐ No ☐ N/A	Positive for Sulfide? Y N
Lead Acetate Strips Lot #	
Headspace in ALK Bottle (>6mm): ☒ Yes ☐ No ☐ N/A	16.
Headspace in VOA Vials (>6mm): ☒ Yes ☐ No ☐ N/A	17.
Trip Blank Present: ☒ Yes ☐ No ☐ N/A	
Trip Blank Custody Seals Present ☒ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted: _____

Comments/ Resolution: _____

Field Data Required? Y / N

Date/Time: _____

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



December 24, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2472333
Pace Project No.: 50389957

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2472333
Pace Project No.: 50389957

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L2472333

Pace Project No.: 50389957

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50389957001	MW-8S	Water	12/10/24 11:10	12/12/24 10:00
50389957002	MW-8D	Water	12/10/24 11:05	12/12/24 10:00
50389957003	MW-6D	Water	12/10/24 13:10	12/12/24 10:00
50389957004	PZ-6	Water	12/10/24 13:18	12/12/24 10:00
50389957005	DUP_121024	Water	12/10/24 12:00	12/12/24 10:00

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SAMPLE ANALYTE COUNT

Project: L2472333
Pace Project No.: 50389957

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50389957001	MW-8S	EPA 9056	DMP1	1
50389957002	MW-8D	EPA 9056	DMP1	1
50389957003	MW-6D	EPA 9056	DMP1	1
50389957004	PZ-6	EPA 9056	DMP1	1
50389957005	DUP_121024	EPA 9056	DMP1	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 50389957

Sample: MW-8S		Lab ID: 50389957001		Collected: 12/10/24 11:10		Received: 12/12/24 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/19/24 22:25		

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 50389957

Sample: MW-8D		Lab ID: 50389957002		Collected: 12/10/24 11:05		Received: 12/12/24 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/19/24 22:48		

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ANALYTICAL RESULTS

Project: L2472333
Pace Project No.: 50389957

Sample: MW-6D		Lab ID: 50389957003		Collected: 12/10/24 13:10		Received: 12/12/24 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	0.15	1		12/19/24 23:10		

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 50389957

Sample: PZ-6		Lab ID: 50389957004		Collected: 12/10/24 13:18		Received: 12/12/24 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/19/24 23:31		

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ANALYTICAL RESULTS

Project: L2472333

Pace Project No.: 50389957

Sample: DUP_121024		Lab ID: 50389957005		Collected: 12/10/24 12:00		Received: 12/12/24 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 01:20		

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QUALITY CONTROL DATA

Project: L2472333

Pace Project No.: 50389957

QC Batch: 824469

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 Iodide by IC

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50389957001, 50389957002, 50389957003, 50389957004, 50389957005

METHOD BLANK: 3773862

Matrix: Water

Associated Lab Samples: 50389957001, 50389957002, 50389957003, 50389957004, 50389957005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	12/19/24 21:21	

LABORATORY CONTROL SAMPLE: 3773863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773864 3773865

Parameter	Units	50389957004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	5.2	5.1	104	101	80-120	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2472333
Pace Project No.: 50389957

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
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LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2472333

Pace Project No.: 50389957

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50389957001	MW-8S	EPA 9056	824469		
50389957002	MW-8D	EPA 9056	824469		
50389957003	MW-6D	EPA 9056	824469		
50389957004	PZ-6	EPA 9056	824469		
50389957005	DUP_121024	EPA 9056	824469		

REPORT OF LABORATORY ANALYSIS

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50389957

		Subcontract Chain of Custody Pace Analytical (Indianapolis, IN) 7726 Moller Road Indianapolis, IN 46268		Pace Job Number L2472333 Page 1				
		Client Information		Project Information		Regulatory Requirements/Report Limits		
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupa.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com		Project Location: NY Project Manager: Jennifer Byrnes Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables		State/Federal Program: Regulatory Criteria: Report to MDL				
Project Specific Requirements and/or Report Requirements								
Reference following Pace Job Number on final report/deliverables: L2472333 Report to include Method and/or Regulatory required batch QC								
Additional Comments: L4 report needed/REPORT TO MDL/needs L4 and EDD 265 NY EQUIS								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2472333-01 L2472333-02 L2472333-03 L2472333-04 L2472333-05	MW-8S MW-8D MW-6D PZ-6 DUP_121024	12-10-24 11:10 12-10-24 11:05 12-10-24 13:10 12-10-24 13:18 12-10-24 12:00	WATER WATER WATER WATER WATER	Iodide Iodide Iodide Iodide Iodide		MS;MSD	1 1 1 3 1
Relinquished By: <i>C. J. Chean</i> <i>FE</i>			Date/Time: 12/12 10:00		Received By: <i>FE</i> <i>gvt/Pace</i>		Date/Time: 12/12 10:00	
Form No: AL_subcoc								

 001
 002
 003
 004
 005



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 12/12 12:19 JS

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. **Cooler Temperature(s):** 1.1/0.9

(Initial/Corrected)

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. **Courier:** Fed Ex UPS Client Pace Now/Jett Other

4. **Custody Seal on Cooler/Box Present:** ☒ Yes ☐ No

(If yes) **Seals Intact:** ☒ Yes ☐ No (leave blank if no seals were present)

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags

☒ None

☐ Other

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **Was the PM notified of out of temp cooler?** ☐ Yes ☒ No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			☒
Short Hold Time Analysis (48 hours or less)? Analysis:		☒				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:	☒		Trip Blank Present?		☒	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Custody Seals?:			☒
Extra labels on Terracore Vials? (soils only)		☒	Out Of Temp Instructions if applicable:			

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

** Place a PINK dot on containers
that are out of conformance **

COC Line Item	WGEL	WGKU	BG1U	MeOH (only)	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS							PLASTIC							OTHER				Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe



January 22, 2025

Jennifer Byrnes
Pace Westborough
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2472333
Pace Project No.: 30741855

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

(Greensburg, PA) - Revision 1- This report replaces the 1/3/25 report. This project was revised on 1/22/25 to correct sample IDs.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Customer Service, Alpha Analytical



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2472333
Pace Project No.: 30741855

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: L2472333

Pace Project No.: 30741855

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30741855001	L2472333-07 PZ-6_R	Water	12/10/24 13:18	12/12/24 10:30
30741855002	L2472333-07 PZ-6_R MS	Water	12/10/24 13:18	12/12/24 10:30
30741855003	L2472333-07 PZ-6_R MSD	Water	12/10/24 13:18	12/12/24 10:30
30741855004	L2472333-08 MW-8S_R	Water	12/10/24 11:10	12/12/24 10:30
30741855005	L2472333-09 DUP_121024_R	Water	12/10/24 12:00	12/12/24 10:30

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SAMPLE ANALYTE COUNT

Project: L2472333

Pace Project No.: 30741855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30741855001	L2472333-07 PZ-6_R	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	6	PASI-PA
30741855002	L2472333-07 PZ-6_R MS	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	3	PASI-PA
30741855003	L2472333-07 PZ-6_R MSD	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	3	PASI-PA
30741855004	L2472333-08 MW-8S_R	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	LAL	6	PASI-PA
30741855005	L2472333-09 DUP_121024_R	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	LAL	6	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2472333

Pace Project No.: 30741855

Sample: L2472333-07 PZ-6_R		Lab ID: 30741855001	Collected: 12/10/24 13:18	Received: 12/12/24 10:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	-0.111 ± 0.299 (0.643) C:NA T:95%		pCi/L	12/30/24 14:18	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.228 ± 0.333 (0.716) C:77% T:83%		pCi/L	01/02/25 14:48	15262-20-1	
Pace Analytical Services - Greensburg							
Thorium-228	HSL-300	0.162 ± 0.198 (0.380) C:NA T:82%		pCi/L	01/02/25 14:43	14274-82-9	
Thorium-230	HSL-300	-0.007 ± 0.112 (0.155) C:NA T:82%		pCi/L	01/02/25 14:43	14269-63-7	
Thorium-232	HSL-300	0.031 ± 0.112 (0.084) C:NA T:82%		pCi/L	01/02/25 14:43	7440-29-1	
Uranium-234	HSL-300	1.12 ± 0.394 (0.177) C:NA T:84%		pCi/L	01/02/25 14:42	13966-29-5	
Uranium-235	HSL-300	0.195 ± 0.173 (0.106) C:NA T:84%		pCi/L	01/02/25 14:42	15117-96-1	
Uranium-238	HSL-300	0.680 ± 0.297 (0.149) C:NA T:84%		pCi/L	01/02/25 14:42		

Sample: L2472333-07 PZ-6_R MS		Lab ID: 30741855002	Collected: 12/10/24 13:18	Received: 12/12/24 10:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	92.03 %REC ± NA (NA) C:NA T:NA		pCi/L	12/30/24 14:18	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	106.27 %REC ± NA (NA) C:NA T:NA		pCi/L	01/02/25 14:48	15262-20-1	
Pace Analytical Services - Greensburg							
Thorium-230	HSL-300	84.74 %REC ± NA (NA) C:NA T:NA		pCi/L	01/02/25 14:43	14269-63-7	
Uranium-234	HSL-300	113.47 %REC ± NA (NA) C:NA T:NA		pCi/L	01/02/25 14:42	13966-29-5	
Uranium-238	HSL-300	100.36 %REC ± NA (NA) C:NA T:NA		pCi/L	01/02/25 14:42		

Sample: L2472333-07 PZ-6_R MSD		Lab ID: 30741855003	Collected: 12/10/24 13:18	Received: 12/12/24 10:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	102.09 %REC	10.37RPD ±	pCi/L	12/30/24 14:18	13982-63-3	
		NA (NA)	C:NA T:NA				

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2472333

Pace Project No.: 30741855

Sample: L2472333-07 PZ-6_R MSD		Lab ID: 30741855003		Collected: 12/10/24 13:18	Received: 12/12/24 10:30	Matrix: Water			
PWS:		Site ID:		Sample Type:					
Parameters		Method		Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg									
Radium-228	EPA 904.0	93.84 %REC 12.42RPD ± NA (NA) C:NA T:NA		pCi/L	01/02/25 14:48	15262-20-1			
Pace Analytical Services - Greensburg									
Thorium-230	HSL-300	80.97 %REC 4.56RPD ± NA (NA) C:NA T:NA		pCi/L	01/02/25 14:43	14269-63-7			
Uranium-234	HSL-300	95.11 %REC 17.60RPD ± NA (NA) C:NA T:NA		pCi/L	01/02/25 14:42	13966-29-5			
Uranium-238	HSL-300	100.18 %REC 0.18RPD ± NA (NA) C:NA T:NA		pCi/L	01/02/25 14:42				

Sample: L2472333-08 MW-8S_R		Lab ID: 30741855004	Collected: 12/10/24 11:10	Received: 12/12/24 10:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.527 ± 0.604 (0.992) C:NA T:92%		pCi/L	12/30/24 14:18	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.742 ± 0.409 (0.722) C:74% T:90%		pCi/L	01/02/25 14:48	15262-20-1	
Pace Analytical Services - Greensburg							
Thorium-228	HSL-300	0.081 ± 0.117 (0.216) C:NA T:86%		pCi/L	12/20/24 17:36	14274-82-9	
Thorium-230	HSL-300	-0.007 ± 0.045 (0.070) C:NA T:86%		pCi/L	12/20/24 17:36	14269-63-7	
Thorium-232	HSL-300	0.004 ± 0.045 (0.070) C:NA T:86%		pCi/L	12/20/24 17:36	7440-29-1	
Uranium-234	HSL-300	-0.014 ± 0.108 (0.178) C:NA T:85%		pCi/L	12/23/24 07:28	13966-29-5	
Uranium-235	HSL-300	0.039 ± 0.141 (0.106) C:NA T:85%		pCi/L	12/23/24 07:28	15117-96-1	
Uranium-238	HSL-300	0.030 ± 0.108 (0.081) C:NA T:85%		pCi/L	12/23/24 07:28		

Sample: L2472333-09 DUP_121024_R		Lab ID: 30741855005	Collected: 12/10/24 12:00	Received: 12/12/24 10:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.450 ± 0.317 (0.153) C:NA T:91%		pCi/L	12/30/24 14:18	13982-63-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2472333

Pace Project No.: 30741855

Sample: **L2472333-09** Lab ID: **30741855005** Collected: 12/10/24 12:00 Received: 12/12/24 10:30 Matrix: Water
PWS: **DUP_121024_R**

Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.844 ± 0.400 (0.657) C:80% T:84%	pCi/L	01/02/25 14:48	15262-20-1	
Pace Analytical Services - Greensburg						
Thorium-228	HSL-300	0.029 ± 0.111 (0.225) C:NA T:83%	pCi/L	12/20/24 17:36	14274-82-9	
Thorium-230	HSL-300	-0.008 ± 0.048 (0.075) C:NA T:83%	pCi/L	12/20/24 17:36	14269-63-7	
Thorium-232	HSL-300	0.000 ± 0.048 (0.031) C:NA T:83%	pCi/L	12/20/24 17:36	7440-29-1	
Uranium-234	HSL-300	1.09 ± 0.396 (0.187) C:NA T:86%	pCi/L	12/23/24 07:28	13966-29-5	
Uranium-235	HSL-300	0.196 ± 0.183 (0.205) C:NA T:86%	pCi/L	12/23/24 07:28	15117-96-1	
Uranium-238	HSL-300	0.583 ± 0.282 (0.187) C:NA T:86%	pCi/L	12/23/24 07:28		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2472333

Pace Project No.: 30741855

QC Batch: 715829

Analysis Method: HSL-300

QC Batch Method: HSL-300

Analysis Description: HSL300(AS) Actinides

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30741855004, 30741855005

METHOD BLANK: 3487018

Matrix: Water

Associated Lab Samples: 30741855004, 30741855005

Parameter	Act ± Unc (MDC) Carr Trac		Units	Analyzed	Qualifiers
Thorium-228	0.205 ± 0.153	(0.244) C:NA T:80%	pCi/L	12/20/24 17:36	
Thorium-230	0.020 ± 0.049	(0.094) C:NA T:80%	pCi/L	12/20/24 17:36	
Thorium-232	0.012 ± 0.049	(0.032) C:NA T:80%	pCi/L	12/20/24 17:36	
Uranium-234	0.102 ± 0.117	(0.173) C:NA T:89%	pCi/L	12/23/24 07:28	
Uranium-235	0.076 ± 0.137	(0.103) C:NA T:89%	pCi/L	12/23/24 07:28	
Uranium-238	0.000 ± 0.105	(0.079) C:NA T:89%	pCi/L	12/23/24 07:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2472333

Pace Project No.: 30741855

QC Batch: 715467

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30741855001, 30741855002, 30741855003, 30741855004, 30741855005

METHOD BLANK: 3485486

Matrix: Water

Associated Lab Samples: 30741855001, 30741855002, 30741855003, 30741855004, 30741855005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.111 ± 0.192 (0.342) C:NA T:95%	pCi/L	12/30/24 14:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2472333

Pace Project No.: 30741855

QC Batch: 715468

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30741855001, 30741855002, 30741855003, 30741855004, 30741855005

METHOD BLANK: 3485487

Matrix: Water

Associated Lab Samples: 30741855001, 30741855002, 30741855003, 30741855004, 30741855005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.480 ± 0.342 (0.653) C:76% T:90%	pCi/L	01/02/25 14:48	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2472333

Pace Project No.: 30741855

QC Batch: 717837

Analysis Method: HSL-300

QC Batch Method: HSL-300

Analysis Description: HSL300(AS) Actinides

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30741855001, 30741855002, 30741855003

METHOD BLANK: 3496643

Matrix: Water

Associated Lab Samples: 30741855001, 30741855002, 30741855003

Parameter	Act ± Unc (MDC) Carr Trac		Units	Analyzed	Qualifiers
Thorium-228	0.056 ± 0.183	(0.434) C:NA T:76%	pCi/L	01/02/25 14:43	
Thorium-230	-0.008 ± 0.117	(0.162) C:NA T:76%	pCi/L	01/02/25 14:43	
Thorium-232	0.000 ± 0.117	(0.088) C:NA T:76%	pCi/L	01/02/25 14:43	
Uranium-234	0.026 ± 0.115	(0.250) C:NA T:79%	pCi/L	01/02/25 14:42	
Uranium-235	0.000 ± 0.150	(0.113) C:NA T:79%	pCi/L	01/02/25 14:42	
Uranium-238	0.041 ± 0.115	(0.213) C:NA T:79%	pCi/L	01/02/25 14:42	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2472333
Pace Project No.: 30741855

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2472333

Pace Project No.: 30741855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30741855001	L2472333-07 PZ-6_R	EPA 903.1	715467		
30741855002	L2472333-07 PZ-6_R MS	EPA 903.1	715467		
30741855003	L2472333-07 PZ-6_R MSD	EPA 903.1	715467		
30741855004	L2472333-08 MW-8S_R	EPA 903.1	715467		
30741855005	L2472333-09 DUP_121024_R	EPA 903.1	715467		
30741855001	L2472333-07 PZ-6_R	EPA 904.0	715468		
30741855002	L2472333-07 PZ-6_R MS	EPA 904.0	715468		
30741855003	L2472333-07 PZ-6_R MSD	EPA 904.0	715468		
30741855004	L2472333-08 MW-8S_R	EPA 904.0	715468		
30741855005	L2472333-09 DUP_121024_R	EPA 904.0	715468		
30741855001	L2472333-07 PZ-6_R	HSL-300	717837		
30741855002	L2472333-07 PZ-6_R MS	HSL-300	717837		
30741855003	L2472333-07 PZ-6_R MSD	HSL-300	717837		
30741855004	L2472333-08 MW-8S_R	HSL-300	715829		
30741855005	L2472333-09 DUP_121024_R	HSL-300	715829		

REPORT OF LABORATORY ANALYSIS

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			Subcontract Chain of Custody Pace Analytical (Greensburg, PA) 1638 Roseytown Rd, Suite 2 Greensburg, PA 15601				Pace Job Number L2472333		
			Page 1						
Client Information			Project Information				Regulatory Requirements/Report Limits		
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com			Project Location: NY Project Manager: Jennifer Byrnes				State/Federal Program: Regulatory Criteria: Report to MDL		
			Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables						
Project Specific Requirements and/or Report Requirements									
Reference following Pace Job Number on final report/deliverables: L2472333 Report to include Method and/or Regulatory required batch QC									
Additional Comments: NEEDS NYDEC EDD, ASPB/L4 Deliverables/Report to MDL									
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count	
	L2472333-07	PZ_6_R	12-10-24 13:18	WATER	Radium 226	RA 226 by 903.1	MS;MSD	0	
	L2472333-08	MW-8S_R	12-10-24 11:10	WATER	Radium 228	RA 228 by 904.0	MS;MSD	0	
	L2472333-09	DUP_121024_R	12-10-24 12:00	WATER	Thorium	Thorium by HASL 300	MS;MSD	0	
				WATER	Uranium by EPA 200.8	Uranium by HASL 300	MS;MSD	0	
				WATER	Radium 226	RA 226 by 903.1		0	
				WATER	Radium 228	RA 228 by 904.0		0	
				WATER	Thorium	Thorium by HASL 300		0	
				WATER	Uranium by EPA 200.8	Uranium by HASL 300		0	
				WATER	Radium 226	RA 226 by 903.1		0	
				WATER	Radium 228	RA 228 by 904.0		0	
			Relinquished By:		Date/Time:	Received By:	Date/Time:		
Form No: AL_subcoc									

		Subcontract Chain of Custody Pace Analytical (Greensburg, PA) 1638 Roseytown Rd, Suite 2 Greensburg, PA 15601			Pace Job Number L2472333			
					Page 2			
Client Information		Project Information			Regulatory Requirements/Report Limits			
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupa.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com		Project Location: NY Project Manager: Jennifer Byrnes			State/Federal Program: Regulatory Criteria: Report to MDL			
		Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables						
Project Specific Requirements and/or Report Requirements								
Reference following Pace Job Number on final report/deliverables: L2472333 Report to include Method and/or Regulatory required batch QC								
Additional Comments: NEEDS NYDEC EDD, ASPB/L4 Deliverables/Report to MDL								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2472333-09	DUP_121024_R	12-10-24 12:00	WATER WATER	Thorium Uranium by EPA 200.8	Thorium by HASL 300 Uranium by HASL 300		0 0
			Relinquished By:		Date/Time:	Received By:	Date/Time:	
Form No: AL_subcoc								



ANALYTICAL REPORT

Lab Number:	L2473162
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Julia Michaels
Phone:	(631) 232-2600
Project Name:	CORAM MATERIALS
Project Number:	2232.0006Y005
Report Date:	01/07/25

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2473162-01	MW-11S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 08:25	12/12/24
L2473162-02	MW-11D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 08:42	12/12/24
L2473162-03	MW-1SR	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 09:50	12/12/24
L2473162-04	MW-1DR2	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 10:10	12/12/24
L2473162-05	MP-1	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 11:40	12/12/24
L2473162-06	MP-1D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 12:05	12/12/24
L2473162-07	DUP_121224	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 12:00	12/12/24
L2473162-08	MW-13S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 14:00	12/12/24
L2473162-09	MW-13D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/12/24 14:05	12/12/24
L2473162-10	EB_121224	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	12/12/24 13:30	12/12/24
L2473162-11	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	12/10/24 00:00	12/12/24

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Case Narrative (continued)

Report Submission

January 07, 2025: This final report includes the results of all requested analyses.

December 19, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analyses of Ammonium, Iodide, and Sulfide were subcontracted. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Total Metals

The WG2010362-7 MS recovery, performed on L2473162-06, is outside the acceptance criteria for potassium (128%). A post digestion spike was performed and yielded an unacceptable recovery for potassium (132%).

The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

Anions by Ion Chromatography

The WG2010321-3/-4 MS/MSD recoveries, performed on L2473162-06, are outside the acceptance criteria for bromide (84%); however, the associated LCS recovery is within criteria. No further action was taken.

Chloride

The WG2009725-3 Laboratory Duplicate RPD for chloride (8%), performed on L2473162-06, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Case Narrative (continued)

Solids, Total Dissolved

The WG2010490-3 Laboratory Duplicate RPD for solids, total dissolved (33%), performed on L2473162-06, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 01/07/25

ORGANICS

VOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-01

Date Collected: 12/12/24 08:25

Client ID: MW-11S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/18/24 14:27

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-01

Date Collected: 12/12/24 08:25

Client ID: MW-11S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	1.9	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-02
 Client ID: MW-11D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 08:42
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 14:51
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-02**Date Collected:** 12/12/24 08:42**Client ID:** MW-11D**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.0	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-03
 Client ID: MW-1SR
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 09:50
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 15:16
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-03**Date Collected:** 12/12/24 09:50**Client ID:** MW-1SR**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-04
 Client ID: MW-1DR2
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 10:10
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 15:40
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-04**Date Collected:** 12/12/24 10:10**Client ID:** MW-1DR2**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.0	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-05
 Client ID: MP-1
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 11:40
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 16:05
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-05**Date Collected:** 12/12/24 11:40**Client ID:** MP-1**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.0	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	111		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-06
 Client ID: MP-1D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 12:05
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 16:30
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-06**Date Collected:** 12/12/24 12:05**Client ID:** MP-1D**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	1.9	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	109		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-07
 Client ID: DUP_121224
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 12:00
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 16:54
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-07**Date Collected:** 12/12/24 12:00**Client ID:** DUP_121224**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-08
 Client ID: MW-13S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 14:00
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/18/24 17:19

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-08**Date Collected:** 12/12/24 14:00**Client ID:** MW-13S**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-09
 Client ID: MW-13D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 14:05
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 17:43
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	2.0	J	ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-09**Date Collected:** 12/12/24 14:05**Client ID:** MW-13D**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	111		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-10
 Client ID: EB_121224
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 13:30
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 13:37
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-10**Date Collected:** 12/12/24 13:30**Client ID:** EB_121224**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.0	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-11
 Client ID: TRIP BLANK
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 00:00
 Date Received: 12/12/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Trip Blank (Aqueous)
 Analytical Method: 1,8260D
 Analytical Date: 12/18/24 14:02
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-11**Date Collected:** 12/10/24 00:00**Client ID:** TRIP BLANK**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/18/24 09:07
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG2010821-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/18/24 09:07
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG2010821-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	1.9	J	ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/18/24 09:07
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG2010821-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG2010821-3 WG2010821-4								
Methylene chloride	97		94		70-130	3		20
1,1-Dichloroethane	95		94		70-130	1		20
Chloroform	93		90		70-130	3		20
Carbon tetrachloride	97		91		63-132	6		20
1,2-Dichloropropane	93		89		70-130	4		20
Dibromochloromethane	80		79		63-130	1		20
1,1,2-Trichloroethane	84		83		70-130	1		20
Tetrachloroethene	91		91		70-130	0		20
Chlorobenzene	93		93		75-130	0		20
Trichlorofluoromethane	90		88		62-150	2		20
1,2-Dichloroethane	90		88		70-130	2		20
1,1,1-Trichloroethane	94		90		67-130	4		20
Bromodichloromethane	91		85		67-130	7		20
trans-1,3-Dichloropropene	82		80		70-130	2		20
cis-1,3-Dichloropropene	87		85		70-130	2		20
Bromoform	77		76		54-136	1		20
1,1,2,2-Tetrachloroethane	88		86		67-130	2		20
Benzene	90		88		70-130	2		20
Toluene	93		92		70-130	1		20
Ethylbenzene	92		91		70-130	1		20
Chloromethane	85		84		64-130	1		20
Bromomethane	28	Q	29	Q	39-139	4		20
Vinyl chloride	72		69		55-140	4		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG2010821-3 WG2010821-4								
Chloroethane	64		65		55-138	2		20
1,1-Dichloroethene	98		94		61-145	4		20
trans-1,2-Dichloroethene	99		96		70-130	3		20
Trichloroethene	87		90		70-130	3		20
1,2-Dichlorobenzene	93		93		70-130	0		20
1,3-Dichlorobenzene	94		92		70-130	2		20
1,4-Dichlorobenzene	93		92		70-130	1		20
Methyl tert butyl ether	87		83		63-130	5		20
p/m-Xylene	85		85		70-130	0		20
o-Xylene	85		85		70-130	0		20
cis-1,2-Dichloroethene	97		95		70-130	2		20
Styrene	85		85		70-130	0		20
Dichlorodifluoromethane	64		62		36-147	3		20
Acetone	96		90		58-148	6		20
Carbon disulfide	99		94		51-130	5		20
2-Butanone	110		100		63-138	10		20
4-Methyl-2-pentanone	70		70		59-130	0		20
2-Hexanone	79		76		57-130	4		20
Bromochloromethane	94		93		70-130	1		20
1,2-Dibromoethane	84		83		70-130	1		20
1,2-Dibromo-3-chloropropane	85		82		41-144	4		20
Isopropylbenzene	97		96		70-130	1		20
1,2,3-Trichlorobenzene	94		92		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG2010821-3 WG2010821-4								
1,2,4-Trichlorobenzene	92		92		70-130	0		20
Methyl Acetate	90		86		70-130	5		20
Cyclohexane	95		91		70-130	4		20
Freon-113	98		94		70-130	4		20
Methyl cyclohexane	87		83		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		98		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	104		100		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG2010821-6 WG2010821-7 QC Sample: L2473162-06 Client ID: MP-1D												
Methylene chloride	ND	10	9.8	98		10	100		70-130	2		20
1,1-Dichloroethane	ND	10	9.7	97		10	100		70-130	3		20
Chloroform	ND	10	9.6	96		9.8	98		70-130	2		20
Carbon tetrachloride	ND	10	10	100		10	100		63-132	0		20
1,2-Dichloropropane	ND	10	8.9	89		9.5	95		70-130	7		20
Dibromochloromethane	ND	10	8.4	84		8.9	89		63-130	6		20
1,1,2-Trichloroethane	ND	10	8.3	83		8.6	86		70-130	4		20
Tetrachloroethene	ND	10	9.3	93		9.6	96		70-130	3		20
Chlorobenzene	ND	10	9.4	94		9.7	97		75-130	3		20
Trichlorofluoromethane	ND	10	9.6	96		9.9	99		62-150	3		20
1,2-Dichloroethane	ND	10	9.2	92		9.6	96		70-130	4		20
1,1,1-Trichloroethane	ND	10	9.9	99		10	100		67-130	1		20
Bromodichloromethane	ND	10	8.8	88		9.5	95		67-130	8		20
trans-1,3-Dichloropropene	ND	10	7.3	73		7.6	76		70-130	4		20
cis-1,3-Dichloropropene	ND	10	7.8	78		8.3	83		70-130	6		20
Bromoform	ND	10	7.5	75		8.0	80		54-136	6		20
1,1,2,2-Tetrachloroethane	ND	10	8.3	83		8.7	87		67-130	5		20
Benzene	ND	10	9.0	90		9.4	94		70-130	4		20
Toluene	ND	10	9.0	90		9.5	95		70-130	5		20
Ethylbenzene	ND	10	8.8	88		9.1	91		70-130	3		20
Chloromethane	ND	10	9.8	98		10	100		64-130	2		20
Bromomethane	ND	10	2.3J	23	Q	2.8	28	Q	39-139	20		20
Vinyl chloride	ND	10	7.2	72		7.5	75		55-140	4		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG2010821-6 WG2010821-7 QC Sample: L2473162-06 Client ID: MP-1D												
Chloroethane	ND	10	6.0	60		6.4	64		55-138	6		20
1,1-Dichloroethene	ND	10	10	100		10	100		61-145	0		20
trans-1,2-Dichloroethene	ND	10	10	100		10	100		70-130	0		20
Trichloroethene	ND	10	8.9	89		9.5	95		70-130	7		20
1,2-Dichlorobenzene	ND	10	9.2	92		9.4	94		70-130	2		20
1,3-Dichlorobenzene	ND	10	9.3	93		9.5	95		70-130	2		20
1,4-Dichlorobenzene	ND	10	9.0	90		9.4	94		70-130	4		20
Methyl tert butyl ether	ND	10	8.0	80		8.8	88		63-130	10		20
p/m-Xylene	ND	20	17	85		18	90		70-130	6		20
o-Xylene	ND	20	16	80		17	85		70-130	6		20
cis-1,2-Dichloroethene	ND	10	9.9	99		10	100		70-130	1		20
Styrene	ND	20	16	80		17	85		70-130	6		20
Dichlorodifluoromethane	ND	10	6.7	67		6.9	69		36-147	3		20
Acetone	ND	10	10	100		11	110		58-148	10		20
Carbon disulfide	ND	10	9.8	98		9.9	99		51-130	1		20
2-Butanone	1.9J	10	11	110		11	110		63-138	0		20
4-Methyl-2-pentanone	ND	10	6.3	63		6.8	68		59-130	8		20
2-Hexanone	ND	10	7.1	71		7.8	78		57-130	9		20
Bromochloromethane	ND	10	10	100		11	110		70-130	10		20
1,2-Dibromoethane	ND	10	8.3	83		8.8	88		70-130	6		20
1,2-Dibromo-3-chloropropane	ND	10	8.1	81		8.6	86		41-144	6		20
Isopropylbenzene	ND	10	8.8	88		9.2	92		70-130	4		20
1,2,3-Trichlorobenzene	ND	10	8.9	89		9.5	95		70-130	7		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG2010821-6 WG2010821-7 QC Sample: L2473162-06 Client ID: MP-1D												
1,2,4-Trichlorobenzene	ND	10	8.6	86		9.0	90		70-130	5		20
Methyl Acetate	ND	10	8.0	80		8.5	85		70-130	6		20
Cyclohexane	ND	10	8.5J	85		9.1J	91		70-130	7		20
Freon-113	ND	10	9.3	93		9.8	98		70-130	5		20
Methyl cyclohexane	ND	10	6.9J	69	Q	7.8J	78		70-130	12		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,2-Dichloroethane-d4	99		101		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	107		105		70-130
Toluene-d8	96		96		70-130

SEMIVOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-01

Date Collected: 12/12/24 08:25

Client ID: MW-11S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E

Extraction Date: 12/15/24 11:38

Analytical Date: 12/17/24 03:56

Analyst: SMZ

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-01**Date Collected:** 12/12/24 08:25**Client ID:** MW-11S**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	34		10-120
4-Terphenyl-d14	57		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-01

Date Collected: 12/12/24 08:25

Client ID: MW-11S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/15/24 11:38

Analytical Date: 12/16/24 09:00

Analyst: DV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-01

Date Collected: 12/12/24 08:25

Client ID: MW-11S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	81		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-02
 Client ID: MW-11D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 08:42
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 04:19
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-02**Date Collected:** 12/12/24 08:42**Client ID:** MW-11D**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	64		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-02
 Client ID: MW-11D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 08:42
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/16/24 09:17
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.14		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	1.9		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	0.04	J	ug/l	0.10	0.03	1
Phenanthrene	0.06	J	ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	0.13		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-02

Date Collected: 12/12/24 08:42

Client ID: MW-11D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	113		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-03
 Client ID: MW-1SR
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 09:50
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 04:41
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-03**Date Collected:** 12/12/24 09:50**Client ID:** MW-1SR**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	2.3	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	66		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-03
 Client ID: MW-1SR
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 09:50
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/16/24 09:34
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-03

Date Collected: 12/12/24 09:50

Client ID: MW-1SR

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	88		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-04
 Client ID: MW-1DR2
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 10:10
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 05:03
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-04**Date Collected:** 12/12/24 10:10**Client ID:** MW-1DR2**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	69		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-04
 Client ID: MW-1DR2
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 10:10
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/16/24 09:51
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-04

Date Collected: 12/12/24 10:10

Client ID: MW-1DR2

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	93		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-05
 Client ID: MP-1
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 11:40
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 05:26
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	3.5		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-05**Date Collected:** 12/12/24 11:40**Client ID:** MP-1**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	1.0	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	37		10-120
4-Terphenyl-d14	55		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-05

Date Collected: 12/12/24 11:40

Client ID: MP-1

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/15/24 11:38

Analytical Date: 12/16/24 10:08

Analyst: DV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-05

Date Collected: 12/12/24 11:40

Client ID: MP-1

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	76		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-06
 Client ID: MP-1D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 12:05
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 06:33
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-06**Date Collected:** 12/12/24 12:05**Client ID:** MP-1D**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	3.1	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	48		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	48		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-06
 Client ID: MP-1D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 12:05
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/16/24 10:25
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-06

Date Collected: 12/12/24 12:05

Client ID: MP-1D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	56		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-07
 Client ID: DUP_121224
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 12:00
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 06:55
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-07**Date Collected:** 12/12/24 12:00**Client ID:** DUP_121224**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	2.3	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	44		10-120
4-Terphenyl-d14	56		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-07
 Client ID: DUP_121224
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 12:00
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/16/24 11:15
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-07

Date Collected: 12/12/24 12:00

Client ID: DUP_121224

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	85		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-08
 Client ID: MW-13S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 14:00
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 07:17
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-08**Date Collected:** 12/12/24 14:00**Client ID:** MW-13S**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	37		10-120
4-Terphenyl-d14	56		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-08
 Client ID: MW-13S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 14:00
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/16/24 11:32
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-08

Date Collected: 12/12/24 14:00

Client ID: MW-13S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	79		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-09
 Client ID: MW-13D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 14:05
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 07:40
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-09**Date Collected:** 12/12/24 14:05**Client ID:** MW-13D**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	0.87	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	52		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-09
 Client ID: MW-13D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 14:05
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/16/24 11:49
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-09

Date Collected: 12/12/24 14:05

Client ID: MW-13D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	75		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-10
 Client ID: EB_121224
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 13:30
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank
 Analytical Method: 1,8270E
 Analytical Date: 12/17/24 08:02
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS****Lab ID:** L2473162-10**Date Collected:** 12/12/24 13:30**Client ID:** EB_121224**Date Received:** 12/12/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	34		10-120
4-Terphenyl-d14	54		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-10
 Client ID: EB_121224
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/12/24 13:30
 Date Received: 12/12/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/16/24 12:06
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-10

Date Collected: 12/12/24 13:30

Client ID: EB_121224

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	57		10-120
4-Terphenyl-d14	81		41-149

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/17/24 01:48
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG2009399-1					
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
Isophorone	ND		ug/l	5.0	0.86
Nitrobenzene	ND		ug/l	2.0	0.20
NDPA/DPA	ND		ug/l	2.0	0.92
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
Di-n-butylphthalate	1.5	J	ug/l	5.0	0.96
Di-n-octylphthalate	ND		ug/l	5.0	2.3
Diethyl phthalate	ND		ug/l	5.0	0.76
Dimethyl phthalate	ND		ug/l	5.0	0.92
Biphenyl	ND		ug/l	2.0	0.20
4-Chloroaniline	ND		ug/l	5.0	0.47
2-Nitroaniline	ND		ug/l	5.0	1.0
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.4
Dibenzofuran	ND		ug/l	2.0	0.40
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24
Acetophenone	ND		ug/l	5.0	0.92
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Chlorophenol	ND		ug/l	2.0	0.65

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/17/24 01:48
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG2009399-1					
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
2-Nitrophenol	ND		ug/l	10	2.0
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrophenol	ND		ug/l	20	5.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
Phenol	ND		ug/l	5.0	0.35
2-Methylphenol	ND		ug/l	5.0	2.3
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Carbazole	ND		ug/l	2.0	0.31
Atrazine	ND		ug/l	10	1.0
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	1.2

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	71		41-149

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/16/24 08:10
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-10 Batch: WG2009401-1					
Acenaphthene	ND		ug/l	0.10	0.02
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.03
Hexachlorobutadiene	ND		ug/l	0.50	0.02
Naphthalene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.10	0.03
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03
Chrysene	ND		ug/l	0.10	0.03
Acenaphthylene	ND		ug/l	0.10	0.02
Anthracene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.02
Fluorene	ND		ug/l	0.10	0.03
Phenanthrene	ND		ug/l	0.10	0.04
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.03
Pentachlorophenol	ND		ug/l	0.80	0.06
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.02
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/16/24 08:10
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/15/24 11:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-10 Batch: WG2009401-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	95		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG2009399-2 WG2009399-3								
3,3'-Dichlorobenzidine	62		67		40-140	8		30
2,4-Dinitrotoluene	66		73		48-143	10		30
2,6-Dinitrotoluene	70		72		40-140	3		30
4-Chlorophenyl phenyl ether	64		69		40-140	8		30
4-Bromophenyl phenyl ether	72		69		40-140	4		30
Bis(2-chloroisopropyl)ether	66		72		40-140	9		30
Bis(2-chloroethoxy)methane	62		67		40-140	8		30
Hexachlorocyclopentadiene	42		45		40-140	7		30
Isophorone	68		72		40-140	6		30
Nitrobenzene	65		68		40-140	5		30
NDPA/DPA	67		67		40-140	0		30
n-Nitrosodi-n-propylamine	67		72		29-132	7		30
Bis(2-ethylhexyl)phthalate	74		78		40-140	5		30
Butyl benzyl phthalate	76		81		40-140	6		30
Di-n-butylphthalate	69		75		40-140	8		30
Di-n-octylphthalate	80		83		40-140	4		30
Diethyl phthalate	72		76		40-140	5		30
Dimethyl phthalate	71		74		40-140	4		30
Biphenyl	56		58		40-140	4		30
4-Chloroaniline	50		46		40-140	8		30
2-Nitroaniline	72		76		52-143	5		30
3-Nitroaniline	59		63		25-145	7		30
4-Nitroaniline	66		68		51-143	3		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG2009399-2 WG2009399-3								
Dibenzofuran	58		63		40-140	8		30
1,2,4,5-Tetrachlorobenzene	58		62		2-134	7		30
Acetophenone	56		60		39-129	7		30
2,4,6-Trichlorophenol	68		74		30-130	8		30
p-Chloro-m-cresol	73		74		23-97	1		30
2-Chlorophenol	55		60		27-123	9		30
2,4-Dichlorophenol	56		64		30-130	13		30
2,4-Dimethylphenol	30		31		30-130	3		30
2-Nitrophenol	56		65		30-130	15		30
4-Nitrophenol	44		48		10-80	9		30
2,4-Dinitrophenol	65		74		20-130	13		30
4,6-Dinitro-o-cresol	82		85		20-164	4		30
Phenol	32		35		12-110	9		30
2-Methylphenol	50		54		30-130	8		30
3-Methylphenol/4-Methylphenol	51		53		30-130	4		30
2,4,5-Trichlorophenol	71		76		30-130	7		30
Carbazole	61		71		55-144	15		30
Atrazine	96		93		40-140	3		30
Benzaldehyde	56		59		40-140	5		30
Caprolactam	47		49		10-130	4		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG2009399-2 WG2009399-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	46		49		21-120
Phenol-d6	30		35		10-120
Nitrobenzene-d5	58		65		23-120
2-Fluorobiphenyl	59		64		15-120
2,4,6-Tribromophenol	58		58		10-120
4-Terphenyl-d14	63		69		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 Batch: WG2009401-2 WG2009401-3								
Acenaphthene	65		72		40-140	10		40
2-Chloronaphthalene	65		71		40-140	9		40
Fluoranthene	77		86		40-140	11		40
Hexachlorobutadiene	57		62		40-140	8		40
Naphthalene	58		62		40-140	7		40
Benzo(a)anthracene	71		80		40-140	12		40
Benzo(a)pyrene	88		98		40-140	11		40
Benzo(b)fluoranthene	89		99		40-140	11		40
Benzo(k)fluoranthene	83		93		40-140	11		40
Chrysene	77		85		40-140	10		40
Acenaphthylene	69		75		40-140	8		40
Anthracene	75		84		40-140	11		40
Benzo(ghi)perylene	83		93		40-140	11		40
Fluorene	71		79		40-140	11		40
Phenanthrene	71		79		40-140	11		40
Dibenzo(a,h)anthracene	86		97		40-140	12		40
Indeno(1,2,3-cd)pyrene	93		103		40-140	10		40
Pyrene	75		85		40-140	13		40
2-Methylnaphthalene	64		70		40-140	9		40
Pentachlorophenol	97		118		40-140	20		40
Hexachlorobenzene	68		77		40-140	12		40
Hexachloroethane	58		66		40-140	13		40
Bis(2-chloroethyl)ether	62		72		40-140	15		40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 Batch: WG2009401-2 WG2009401-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		59		21-120
Phenol-d6	36		41		10-120
Nitrobenzene-d5	87		102		23-120
2-Fluorobiphenyl	67		75		15-120
2,4,6-Tribromophenol	96		109		10-120
4-Terphenyl-d14	78		89		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2009399-4 WG2009399-5 QC Sample: L2473162-06 Client ID: MP-1D												
3,3'-Dichlorobenzidine	ND	20	12	60		11	55		40-140	9		30
2,4-Dinitrotoluene	ND	20	14	70		14	70		48-143	0		30
2,6-Dinitrotoluene	ND	20	13	65		14	70		40-140	7		30
4-Chlorophenyl phenyl ether	ND	20	12	60		13	65		40-140	8		30
4-Bromophenyl phenyl ether	ND	20	13	65		13	65		40-140	0		30
Bis(2-chloroisopropyl)ether	ND	20	14	70		13	65		40-140	7		30
Bis(2-chloroethoxy)methane	ND	20	14	70		14	70		40-140	0		30
Hexachlorocyclopentadiene	ND	20	6.8J	34	Q	7.4J	37	Q	40-140	8		30
Isophorone	ND	20	13	65		13	65		40-140	0		30
Nitrobenzene	ND	20	13	65		13	65		40-140	0		30
NDPA/DPA	ND	20	13	65		13	65		40-140	0		30
n-Nitrosodi-n-propylamine	ND	20	14	70		13	65		29-132	7		30
Bis(2-ethylhexyl)phthalate	ND	20	15	75		15	75		40-140	0		30
Butyl benzyl phthalate	ND	20	15	75		15	75		40-140	0		30
Di-n-butylphthalate	ND	20	14	70		14	70		40-140	0		30
Di-n-octylphthalate	ND	20	14	70		15	75		40-140	7		30
Diethyl phthalate	ND	20	14	70		14	70		40-140	0		30
Dimethyl phthalate	ND	20	14	70		14	70		40-140	0		30
Biphenyl	ND	20	14	70		15	75		40-140	7		30
4-Chloroaniline	ND	20	11	55		7.8	39	Q	40-140	34	Q	30
2-Nitroaniline	ND	20	14	70		14	70		52-143	0		30
3-Nitroaniline	ND	20	13	65		12	60		25-145	8		30
4-Nitroaniline	ND	20	13	65		15	75		51-143	14		30

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2009399-4 WG2009399-5 QC Sample: L2473162-06 Client ID: MP-1D												
Dibenzofuran	ND	20	12	60		13	65		40-140	8		30
1,2,4,5-Tetrachlorobenzene	ND	20	14	70		14	70		2-134	0		30
Acetophenone	ND	20	17	85		17	85		39-129	0		30
2,4,6-Trichlorophenol	ND	20	13	65		13	65		30-130	0		30
p-Chloro-m-cresol	ND	20	13	65		14	70		23-97	7		30
2-Chlorophenol	ND	20	13	65		12	60		27-123	8		30
2,4-Dichlorophenol	ND	20	14	70		13	65		30-130	7		30
2,4-Dimethylphenol	ND	20	7.7	39		5.8	29	Q	30-130	28		30
2-Nitrophenol	ND	20	12	60		12	60		30-130	0		30
4-Nitrophenol	ND	20	10	50		11	55		10-80	10		30
2,4-Dinitrophenol	ND	20	8.6J	43		8.6J	43		20-130	0		30
4,6-Dinitro-o-cresol	ND	20	12	60		12	60		20-164	0		30
Phenol	3.1J	20	7.9	40		9.1	46		12-110	14		30
2-Methylphenol	ND	20	12	60		11	55		30-130	9		30
3-Methylphenol/4-Methylphenol	ND	20	12	60		11	55		30-130	9		30
2,4,5-Trichlorophenol	ND	20	14	70		13	65		30-130	7		30
Carbazole	ND	20	14	70		14	70		55-144	0		30
Atrazine	ND	20	18	90		20	100		40-140	11		30
Benzaldehyde	ND	20	18	90		17	85		40-140	6		30
Caprolactam	ND	20	6.2J	31		7.3J	37		10-130	16		30

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2009399-4 WG2009399-5 QC Sample: L2473162-06
Client ID: MP-1D

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	73		76		10-120
2-Fluorobiphenyl	60		62		15-120
2-Fluorophenol	47		50		21-120
4-Terphenyl-d14	65		64		41-149
Nitrobenzene-d5	68		68		23-120
Phenol-d6	34		35		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2009401-4 WG2009401-5 QC Sample: L2473162-06 Client ID: MP-1D												
Acenaphthene	ND	20	14	70		15	75		40-140	7		40
2-Chloronaphthalene	ND	20	14	70		18	90		40-140	25		40
Fluoranthene	ND	20	17	85		18	90		40-140	6		40
Hexachlorobutadiene	ND	20	11	55		13	65		40-140	17		40
Naphthalene	ND	20	12	60		13	65		40-140	8		40
Benzo(a)anthracene	ND	20	16	80		16	80		40-140	0		40
Benzo(a)pyrene	ND	20	20	100		19	95		40-140	5		40
Benzo(b)fluoranthene	ND	20	20	100		20	100		40-140	0		40
Benzo(k)fluoranthene	ND	20	18	90		19	95		40-140	5		40
Chrysene	ND	20	17	85		17	85		40-140	0		40
Acenaphthylene	ND	20	15	75		18	90		40-140	18		40
Anthracene	ND	20	17	85		17	85		40-140	0		40
Benzo(ghi)perylene	ND	20	19	95		19	95		40-140	0		40
Fluorene	ND	20	16	80		16	80		40-140	0		40
Phenanthrene	ND	20	16	80		16	80		40-140	0		40
Dibenzo(a,h)anthracene	ND	20	19	95		20	100		40-140	5		40
Indeno(1,2,3-cd)pyrene	ND	20	21	110		21	110		40-140	0		40
Pyrene	ND	20	17	85		17	85		40-140	0		40
2-Methylnaphthalene	ND	20	14	70		18	90		40-140	25		40
Pentachlorophenol	ND	20	22	110		24	120		40-140	9		40
Hexachlorobenzene	ND	20	15	75		15	75		40-140	0		40
Hexachloroethane	ND	20	13	65		13	65		40-140	0		40
Bis(2-chloroethyl)ether	ND	20	14	70		14	70		40-140	0		40

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2009401-4 WG2009401-5 QC Sample: L2473162-06 Client ID: MP-1D

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	109		113		10-120
2-Fluorobiphenyl	74		91		15-120
2-Fluorophenol	58		60		21-120
4-Terphenyl-d14	87		90		41-149
Nitrobenzene-d5	110		99		23-120
Phenol-d6	39		42		10-120

METALS

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-01

Date Collected: 12/12/24 08:25

Client ID: MW-11S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Barium, Total	0.0261		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Calcium, Total	29.6		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Iron, Total	0.0132	J	mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Magnesium, Total	9.79		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 11:01	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Potassium, Total	1.20	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Sodium, Total	4.03		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Zinc, Total	0.0028	J	mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 22:53	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0260		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-01

Date Collected: 12/12/24 08:25

Client ID: MW-11S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	31.3		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	10.5		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:21	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.17	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	3.88		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0029	J	mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 11:39	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-02

Date Collected: 12/12/24 08:42

Client ID: MW-11D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.127		mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Barium, Total	0.0279		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Calcium, Total	15.4		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Iron, Total	3.35		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Magnesium, Total	5.94		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Manganese, Total	0.0534		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 11:04	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Potassium, Total	0.973	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Sodium, Total	8.09		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 22:57	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0263		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-02

Date Collected: 12/12/24 08:42

Client ID: MW-11D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	16.3		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Iron, Dissolved	2.87		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	6.32		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0552		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:24	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	0.917	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	7.73		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 11:43	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-03

Date Collected: 12/12/24 09:50

Client ID: MW-1SR

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Barium, Total	0.0369		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Calcium, Total	23.8		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Iron, Total	0.0152	J	mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Magnesium, Total	4.37		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 11:07	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Potassium, Total	3.10		mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Sodium, Total	9.82		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 23:02	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0355		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-03

Date Collected: 12/12/24 09:50

Client ID: MW-1SR

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	24.8		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	4.58		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:28	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	2.93		mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	9.28		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 12:33	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-04

Date Collected: 12/12/24 10:10

Client ID: MW-1DR2

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Arsenic, Total	0.0026	J	mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Barium, Total	0.0229		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Calcium, Total	9.98		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Cobalt, Total	0.0024	J	mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Iron, Total	2.83		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Magnesium, Total	4.68		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Manganese, Total	0.0341		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 11:11	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Potassium, Total	1.01	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Sodium, Total	9.11		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Zinc, Total	0.0055		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 23:38	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	0.0025	J	mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0224		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-04

Date Collected: 12/12/24 10:10

Client ID: MW-1DR2

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	10.6		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	0.0029	J	mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Iron, Dissolved	2.19		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	5.05		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0352		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:31	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	0.990	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	8.83		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0058		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 12:38	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-05

Date Collected: 12/12/24 11:40

Client ID: MP-1

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Barium, Total	0.0210		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Calcium, Total	21.3		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Iron, Total	0.0113	J	mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Magnesium, Total	6.36		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 11:14	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Potassium, Total	2.29	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Sodium, Total	14.0		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 23:42	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0209		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-05

Date Collected: 12/12/24 11:40

Client ID: MP-1

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	22.7		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	6.84		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:34	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	2.27	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	13.6		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 12:42	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-06

Date Collected: 12/12/24 12:05

Client ID: MP-1D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0689	J	mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Barium, Total	0.0141		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Calcium, Total	17.9		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Iron, Total	0.0825		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Magnesium, Total	9.24		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Manganese, Total	0.0027	J	mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Mercury, Total	0.00120		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 10:28	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Potassium, Total	1.50	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Sodium, Total	14.7		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 23:06	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0142		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-06

Date Collected: 12/12/24 12:05

Client ID: MP-1D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	19.5		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Iron, Dissolved	0.0102	J	mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	10.3		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0019	J	mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	0.00088		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 19:19	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.50	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	14.6		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 11:48	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-07

Date Collected: 12/12/24 12:00

Client ID: DUP_121224

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0706	J	mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Arsenic, Total	0.0019	J	mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Barium, Total	0.0142		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Calcium, Total	17.7		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Iron, Total	0.0899		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Magnesium, Total	9.24		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Manganese, Total	0.0027	J	mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Mercury, Total	0.00103		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 10:38	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Potassium, Total	1.52	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Sodium, Total	14.9		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 23:47	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0136		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-07

Date Collected: 12/12/24 12:00

Client ID: DUP_121224

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	18.7		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Iron, Dissolved	0.0140	J	mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	9.77		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0018	J	mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	0.00074		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:38	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.44	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	14.0		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0030	J	mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 12:55	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-08

Date Collected: 12/12/24 14:00

Client ID: MW-13S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Barium, Total	0.0898		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Calcium, Total	99.5		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Iron, Total	0.0121	J	mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Magnesium, Total	22.2		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 11:17	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Potassium, Total	3.09		mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Sodium, Total	5.37		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 23:51	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0886		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-08

Date Collected: 12/12/24 14:00

Client ID: MW-13S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	105.		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	23.6		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 19:29	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	3.01		mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	5.10		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0025	J	mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 12:47	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-09

Date Collected: 12/12/24 14:05

Client ID: MW-13D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Barium, Total	0.0259		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Calcium, Total	10.9		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Iron, Total	0.0278	J	mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Magnesium, Total	5.28		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 11:21	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Potassium, Total	1.17	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Sodium, Total	15.3		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 23:55	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0255		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-09

Date Collected: 12/12/24 14:05

Client ID: MW-13D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	11.4		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	5.58		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:41	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.15	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	14.8		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 12:51	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-10

Date Collected: 12/12/24 13:30

Client ID: EB_121224

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Barium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Calcium, Total	ND		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Iron, Total	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Magnesium, Total	ND		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 11:24	EPA 245.1	3,245.1	DJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Potassium, Total	ND		mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Sodium, Total	ND		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 00:00	EPA 3005A	19,200.7	DMC
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Barium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**SAMPLE RESULTS**

Lab ID: L2473162-10

Date Collected: 12/12/24 13:30

Client ID: EB_121224

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	ND		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Iron, Dissolved	0.0093	J	mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	ND		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:44	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	ND		mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	ND		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 13:27	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG2010362-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Barium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Calcium, Total	ND		mg/l	0.100	0.0350	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Iron, Total	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Magnesium, Total	ND		mg/l	0.100	0.0153	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Potassium, Total	ND		mg/l	2.50	0.237	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Sodium, Total	ND		mg/l	2.00	0.120	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/18/24 10:52	19,200.7	DMC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG2010364-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 10:21	3,245.1	DJR



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG2010403-1										
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Barium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Calcium, Dissolved	ND		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Magnesium, Dissolved	ND		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Potassium, Dissolved	ND		mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Sodium, Dissolved	ND		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC

Prep Information

Digestion Method: EPA 3005A



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-10 Batch: WG2010404-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 19:13	3,245.1	MJR

Prep Information

Digestion Method: EPA 245.1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG2010362-2								
Aluminum, Total	106		-		85-115	-		
Antimony, Total	86		-		85-115	-		
Arsenic, Total	102		-		85-115	-		
Barium, Total	102		-		85-115	-		
Beryllium, Total	102		-		85-115	-		
Cadmium, Total	103		-		85-115	-		
Calcium, Total	100		-		85-115	-		
Chromium, Total	103		-		85-115	-		
Cobalt, Total	105		-		85-115	-		
Copper, Total	105		-		85-115	-		
Iron, Total	101		-		85-115	-		
Lead, Total	104		-		85-115	-		
Magnesium, Total	104		-		85-115	-		
Manganese, Total	99		-		85-115	-		
Nickel, Total	102		-		85-115	-		
Potassium, Total	109		-		85-115	-		
Selenium, Total	102		-		85-115	-		
Silver, Total	102		-		85-115	-		
Sodium, Total	110		-		85-115	-		
Thallium, Total	105		-		85-115	-		
Vanadium, Total	106		-		85-115	-		

Lab Control Sample Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473162**Report Date:** 01/07/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG2010362-2					
Zinc, Total	101	-	85-115	-	
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG2010364-2					
Mercury, Total	111	-	85-115	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG2010403-2					
Aluminum, Dissolved	104	-	85-115	-	
Antimony, Dissolved	87	-	85-115	-	
Arsenic, Dissolved	98	-	85-115	-	
Barium, Dissolved	100	-	85-115	-	
Beryllium, Dissolved	102	-	85-115	-	
Cadmium, Dissolved	106	-	85-115	-	
Calcium, Dissolved	100	-	85-115	-	
Chromium, Dissolved	106	-	85-115	-	
Cobalt, Dissolved	108	-	85-115	-	
Copper, Dissolved	107	-	85-115	-	
Iron, Dissolved	103	-	85-115	-	
Lead, Dissolved	103	-	85-115	-	
Magnesium, Dissolved	108	-	85-115	-	
Manganese, Dissolved	101	-	85-115	-	
Nickel, Dissolved	105	-	85-115	-	
Potassium, Dissolved	106	-	85-115	-	
Selenium, Dissolved	98	-	85-115	-	
Silver, Dissolved	106	-	85-115	-	
Sodium, Dissolved	104	-	85-115	-	
Thallium, Dissolved	104	-	85-115	-	
Vanadium, Dissolved	108	-	85-115	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473162**Report Date:** 01/07/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG2010403-2					
Zinc, Dissolved	105	-	85-115	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG2010404-2					
Mercury, Dissolved	98	-	85-115	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10			QC Batch ID: WG2010362-3			QC Sample: L2472692-01			Client ID: MS Sample			
Aluminum, Total	0.938	2	3.11	109		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.525	105		-	-		75-125	-		20
Arsenic, Total	0.003J	0.12	0.132	110		-	-		75-125	-		20
Barium, Total	0.256	2	2.28	101		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.0517	103		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.0546	103		-	-		75-125	-		20
Calcium, Total	44.0	10	53.4	94		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.205	102		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.511	102		-	-		75-125	-		20
Copper, Total	0.004J	0.25	0.276	110		-	-		75-125	-		20
Iron, Total	0.196	1	1.18	98		-	-		75-125	-		20
Lead, Total	ND	0.53	0.565	107		-	-		75-125	-		20
Magnesium, Total	5.66	10	15.3	96		-	-		75-125	-		20
Manganese, Total	1.32	0.5	1.80	96		-	-		75-125	-		20
Nickel, Total	0.003J	0.5	0.496	99		-	-		75-125	-		20
Potassium, Total	35.8	10	47.5	117		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.130	108		-	-		75-125	-		20
Silver, Total	ND	0.05	0.0528	106		-	-		75-125	-		20
Sodium, Total	349	10	355	60	Q	-	-		75-125	-		20
Thallium, Total	ND	0.12	0.120	100		-	-		75-125	-		20
Vanadium, Total	0.003J	0.5	0.544	109		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473162**Report Date:** 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010362-3 QC Sample: L2472692-01 Client ID: MS Sample									
Zinc, Total	0.067	0.5	0.581	103	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010362-7 WG2010362-8 QC Sample: L2473162-06 Client ID: MP-1D									
Aluminum, Total	0.0689J	2	2.30	115	2.26	113	75-125	2	20
Antimony, Total	ND	0.5	0.454	91	0.451	90	75-125	1	20
Arsenic, Total	ND	0.12	0.124	103	0.118	98	75-125	5	20
Barium, Total	0.0141	2	2.10	104	2.06	102	75-125	2	20
Beryllium, Total	ND	0.05	0.0523	105	0.0509	102	75-125	3	20
Cadmium, Total	ND	0.053	0.0539	102	0.0526	99	75-125	2	20
Calcium, Total	17.9	10	27.6	97	27.0	91	75-125	2	20
Chromium, Total	ND	0.2	0.210	105	0.203	102	75-125	3	20
Cobalt, Total	ND	0.5	0.522	104	0.506	101	75-125	3	20
Copper, Total	ND	0.25	0.269	108	0.262	105	75-125	3	20
Iron, Total	0.0825	1	1.09	101	1.06	98	75-125	3	20
Lead, Total	ND	0.53	0.562	106	0.542	102	75-125	4	20
Magnesium, Total	9.24	10	19.5	103	18.9	97	75-125	3	20
Manganese, Total	0.0027J	0.5	0.501	100	0.487	97	75-125	3	20
Nickel, Total	ND	0.5	0.509	102	0.493	99	75-125	3	20
Potassium, Total	1.50J	10	12.8	128	Q 12.4	124	75-125	3	20
Selenium, Total	ND	0.12	0.125	104	0.123	102	75-125	2	20
Silver, Total	ND	0.05	0.0523	105	0.0509	102	75-125	3	20
Sodium, Total	14.7	10	25.6	109	25.1	104	75-125	2	20
Thallium, Total	ND	0.12	0.126	105	0.123	102	75-125	2	20
Vanadium, Total	ND	0.5	0.543	109	0.527	105	75-125	3	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10			QC Batch ID: WG2010362-7		WG2010362-8	QC Sample: L2473162-06		Client ID: MP-1D	
Zinc, Total	ND	0.5	0.504	101	0.488	98	75-125	3	20
Total Metals - Mansfield Lab Associated sample(s): 01-10			QC Batch ID: WG2010364-3		WG2010364-4	QC Sample: L2473162-06		Client ID: MP-1D	
Mercury, Total	0.00120	0.005	0.00545	85	0.00546	85	70-130	0	20
Total Metals - Mansfield Lab Associated sample(s): 01-10			QC Batch ID: WG2010364-5		QC Sample: L2473162-07		Client ID: DUP_121224		
Mercury, Total	0.00103	0.005	0.00567	93	-	-	70-130	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010403-3 WG2010403-4 QC Sample: L2473162-06 Client ID: MP-1D									
Aluminum, Dissolved	ND	2	2.16	108	2.12	106	75-125	2	20
Antimony, Dissolved	ND	0.5	0.464	93	0.462	92	75-125	0	20
Arsenic, Dissolved	ND	0.12	0.122	102	0.120	100	75-125	2	20
Barium, Dissolved	0.0142	2	2.05	102	2.00	99	75-125	2	20
Beryllium, Dissolved	ND	0.05	0.0529	106	0.0517	103	75-125	2	20
Cadmium, Dissolved	ND	0.053	0.0577	109	0.0568	107	75-125	2	20
Calcium, Dissolved	19.5	10	28.7	92	28.0	85	75-125	2	20
Chromium, Dissolved	ND	0.2	0.219	110	0.215	108	75-125	2	20
Cobalt, Dissolved	ND	0.5	0.547	109	0.536	107	75-125	2	20
Copper, Dissolved	ND	0.25	0.275	110	0.270	108	75-125	2	20
Iron, Dissolved	0.0102J	1	1.06	106	1.03	103	75-125	3	20
Lead, Dissolved	ND	0.53	0.562	106	0.551	104	75-125	2	20
Magnesium, Dissolved	10.3	10	20.6	103	20.2	99	75-125	2	20
Manganese, Dissolved	0.0019J	0.5	0.517	103	0.505	101	75-125	2	20
Nickel, Dissolved	ND	0.5	0.533	107	0.522	104	75-125	2	20
Potassium, Dissolved	1.50J	10	12.3	123	12.0	120	75-125	2	20
Selenium, Dissolved	ND	0.12	0.123	102	0.119	99	75-125	3	20
Silver, Dissolved	ND	0.05	0.0546	109	0.0534	107	75-125	2	20
Sodium, Dissolved	14.6	10	24.5	99	24.1	95	75-125	2	20
Thallium, Dissolved	ND	0.12	0.129	108	0.125	104	75-125	3	20
Vanadium, Dissolved	ND	0.5	0.556	111	0.545	109	75-125	2	20

Matrix Spike Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473162**Report Date:** 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010403-3 WG2010403-4 QC Sample: L2473162-06 Client ID: MP-1D									
Zinc, Dissolved	ND	0.5	0.545	109	0.532	106	75-125	2	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010403-7 QC Sample: L2473162-07 Client ID: DUP_121224									
Aluminum, Dissolved	ND	2	2.14	107	-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.461	92	-	-	75-125	-	20
Arsenic, Dissolved	ND	0.12	0.121	101	-	-	75-125	-	20
Barium, Dissolved	0.0136	2	2.02	100	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.0526	105	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.0574	108	-	-	75-125	-	20
Calcium, Dissolved	18.7	10	28.5	98	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.216	108	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.541	108	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.274	110	-	-	75-125	-	20
Iron, Dissolved	0.0140J	1	1.05	105	-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.564	106	-	-	75-125	-	20
Magnesium, Dissolved	9.77	10	20.4	106	-	-	75-125	-	20
Manganese, Dissolved	0.0018J	0.5	0.513	103	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.527	105	-	-	75-125	-	20
Potassium, Dissolved	1.44J	10	12.3	123	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.123	102	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.0544	109	-	-	75-125	-	20
Sodium, Dissolved	14.0	10	24.2	102	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.129	108	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.551	110	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010403-7 QC Sample: L2473162-07 Client ID: DUP_121224									
Zinc, Dissolved	0.0030J	0.5	0.537	107	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010404-3 WG2010404-4 QC Sample: L2473162-06 Client ID: MP-1D									
Mercury, Dissolved	0.00088	0.005	0.00572	97	0.00573	97	75-125	0	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010404-5 QC Sample: L2473162-08 Client ID: MW-13S									
Mercury, Dissolved	ND	0.005	0.00494	99	-	-	75-125	-	20

Lab Duplicate Analysis*Batch Quality Control***Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473162**Report Date:** 01/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010362-4 QC Sample: L2472692-01 Client ID: DUP Sample						
Calcium, Total	44.0	44.0	mg/l	0		20
Magnesium, Total	5.66	5.65	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010364-6 QC Sample: L2473162-07 Client ID: DUP_121224						
Mercury, Total	0.00103	0.00104	mg/l	1		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010403-8 QC Sample: L2473162-07 Client ID: DUP_121224					
Aluminum, Dissolved	ND	ND	mg/l	NC	20
Antimony, Dissolved	ND	ND	mg/l	NC	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Barium, Dissolved	0.0136	0.0135	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	18.7	18.4	mg/l	2	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Cobalt, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	0.0140J	0.0150J	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	9.77	9.55	mg/l	2	20
Manganese, Dissolved	0.0018J	0.0018J	mg/l	NC	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Potassium, Dissolved	1.44J	1.43J	mg/l	NC	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	14.0	13.8	mg/l	1	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473162
Report Date: 01/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010403-8 QC Sample: L2473162-07 Client ID: DUP_121224					
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.0030J	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010404-6 QC Sample: L2473162-08 Client ID: MW-13S					
Mercury, Dissolved	ND	ND	mg/l	NC	20

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2473162
Report Date: 01/07/25

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010362-10 QC Sample: L2473162-06 Client ID: MP-1D						
Calcium, Total	17.9	17.4	mg/l	3		20
Magnesium, Total	9.24	8.71	mg/l	6		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010403-10 QC Sample: L2473162-07 Client ID: DUP_121224						
Calcium, Dissolved	18.7	17.9	mg/l	4		20
Magnesium, Dissolved	9.77	9.03	mg/l	8		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2010403-6 QC Sample: L2473162-06 Client ID: MP-1D						
Calcium, Dissolved	19.5	18.1	mg/l	7		20
Magnesium, Dissolved	10.3	9.18	mg/l	11		20

INORGANICS & MISCELLANEOUS

Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-01

Date Collected: 12/12/24 08:25

Client ID: MW-11S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 08:55	121,2320B	MKT
Alkalinity, Bicarbonate	100.		mg CaCO3/L	2.00	NA	1	-	12/18/24 08:55	121,2320B	MKT
Solids, Total Dissolved	110		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/17/24 17:46	121,2540D	REM
Chloride	4.6		mg/l	1.0	0.89	1	-	12/17/24 00:43	121,4500CL-E	JER
Fluoride	0.03	J	mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.020	0.009	1	-	12/14/24 08:23	121,4500NO2-B	KAF
Nitrogen, Nitrate	0.480		mg/l	0.100	0.022	1	-	12/14/24 07:13	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	0.48		mg/l	0.10	0.046	1	-	12/14/24 07:13	121,4500NO3-F	KAF
Total Nitrogen	0.48		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.222	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:04	4,351.1	AT
Phosphate, Total	0.018	J	mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:16	121,4500P-E(M)	EYA
Sulfate	6.9	J	mg/l	10	1.4	1	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.034	J	mg/l	0.050	0.013	1	-	12/17/24 22:49	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-02

Date Collected: 12/12/24 08:42

Client ID: MW-11D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 08:58	121,2320B	MKT
Alkalinity, Bicarbonate	35.0		mg CaCO3/L	2.00	NA	1	-	12/18/24 08:58	121,2320B	MKT
Solids, Total Dissolved	69.		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	6.7		mg/l	5.0	NA	1	-	12/17/24 17:46	121,2540D	REM
Chloride	13.		mg/l	1.0	0.89	1	-	12/17/24 13:29	121,4500CL-E	JER
Fluoride	0.05	J	mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
Nitrogen, Nitrite	0.010	J	mg/l	0.020	0.009	1	-	12/14/24 08:23	121,4500NO2-B	KAF
Nitrogen, Nitrate	0.314		mg/l	0.100	0.022	1	-	12/14/24 07:14	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	0.31		mg/l	0.10	0.046	1	-	12/14/24 07:14	121,4500NO3-F	KAF
Total Nitrogen	0.31		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.121	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:05	4,351.1	AT
Phosphate, Total	0.092		mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:17	121,4500P-E(M)	EYA
Sulfate	29.		mg/l	10	1.4	1	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.047	J	mg/l	0.050	0.013	1	-	12/17/24 15:58	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-03

Date Collected: 12/12/24 09:50

Client ID: MW-1SR

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:00	121,2320B	MKT
Alkalinity, Bicarbonate	59.7		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:00	121,2320B	MKT
Solids, Total Dissolved	96.		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/16/24 13:33	121,2540D	BAY
Chloride	14.		mg/l	1.0	0.89	1	-	12/17/24 00:47	121,4500CL-E	JER
Fluoride	0.07	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 09:21	121,4500NO3-F	KAF
Nitrogen, Nitrate	1.50		mg/l	0.100	0.022	1	-	12/14/24 07:15	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	1.5		mg/l	0.10	0.046	1	-	12/14/24 07:15	121,4500NO3-F	KAF
Total Nitrogen	1.5		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.076	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:09	4,351.1	AT
Phosphate, Total	0.028	J	mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:18	121,4500P-E(M)	EYA
Sulfate	12.		mg/l	10	1.4	1	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.013	1	-	12/17/24 16:10	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-04

Date Collected: 12/12/24 10:10

Client ID: MW-1DR2

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:03	121,2320B	MKT
Alkalinity, Bicarbonate	30.9		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:03	121,2320B	MKT
Solids, Total Dissolved	78.		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/17/24 17:46	121,2540D	REM
Chloride	9.0		mg/l	1.0	0.89	1	-	12/17/24 13:30	121,4500CL-E	JER
Fluoride	0.03	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 09:41	121,4500NO3-F	KAF
Nitrogen, Nitrate	1.55		mg/l	0.100	0.022	1	-	12/14/24 07:17	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	1.5		mg/l	0.10	0.046	1	-	12/14/24 07:17	121,4500NO3-F	KAF
Total Nitrogen	1.5		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:10	4,351.1	AT
Phosphate, Total	0.015	J	mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:19	121,4500P-E(M)	EYA
Sulfate	14.		mg/l	10	1.4	1	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.063		mg/l	0.050	0.013	1	-	12/17/24 16:22	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-05

Date Collected: 12/12/24 11:40

Client ID: MP-1

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:04	121,2320B	MKT
Alkalinity, Bicarbonate	57.0		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:04	121,2320B	MKT
Solids, Total Dissolved	110		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/17/24 17:46	121,2540D	REM
Chloride	20.		mg/l	1.0	0.89	1	-	12/17/24 00:50	121,4500CL-E	JER
Fluoride	0.07	J	mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 09:42	121,4500NO3-F	KAF
Nitrogen, Nitrate	1.02		mg/l	0.100	0.022	1	-	12/14/24 07:18	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	1.0		mg/l	0.10	0.046	1	-	12/14/24 07:18	121,4500NO3-F	KAF
Total Nitrogen	1.0		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.130	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:11	4,351.1	AT
Phosphate, Total	0.095		mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:20	121,4500P-E(M)	EYA
Sulfate	17.		mg/l	10	1.4	1	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.042	J	mg/l	0.050	0.013	1	-	12/17/24 16:58	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-06

Date Collected: 12/12/24 12:05

Client ID: MP-1D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:07	121,2320B	MKT
Alkalinity, Bicarbonate	49.6		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:07	121,2320B	MKT
Solids, Total Dissolved	140		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	5.1		mg/l	5.0	NA	1	-	12/17/24 17:46	121,2540D	REM
Chloride	12.		mg/l	1.0	0.89	1	-	12/17/24 00:51	121,4500CL-E	JER
Fluoride	0.05	J	mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 09:43	121,4500NO3-F	KAF
Nitrogen, Nitrate	0.677		mg/l	0.100	0.022	1	-	12/14/24 07:19	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	0.68		mg/l	0.10	0.046	1	-	12/14/24 07:19	121,4500NO3-F	KAF
Total Nitrogen	0.68		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.124	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:12	4,351.1	AT
Phosphate, Total	0.071		mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:20	121,4500P-E(M)	EYA
Sulfate	38.		mg/l	20	2.7	2	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.060		mg/l	0.050	0.013	1	-	12/17/24 17:35	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-07

Date Collected: 12/12/24 12:00

Client ID: DUP_121224

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:16	121,2320B	MKT
Alkalinity, Bicarbonate	49.1		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:16	121,2320B	MKT
Solids, Total Dissolved	120		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	11.		mg/l	5.0	NA	1	-	12/17/24 17:46	121,2540D	REM
Chloride	12.		mg/l	1.0	0.89	1	-	12/17/24 13:31	121,4500CL-E	JER
Fluoride	0.05	J	mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 10:01	121,4500NO3-F	KAF
Nitrogen, Nitrate	0.659		mg/l	0.100	0.022	1	-	12/14/24 07:28	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	0.66		mg/l	0.10	0.046	1	-	12/14/24 07:28	121,4500NO3-F	KAF
Total Nitrogen	0.66		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.157	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:15	4,351.1	AT
Phosphate, Total	0.077		mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:24	121,4500P-E(M)	EYA
Sulfate	36.		mg/l	20	2.7	2	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.060		mg/l	0.050	0.013	1	-	12/17/24 17:47	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-08

Date Collected: 12/12/24 14:00

Client ID: MW-13S

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:18	121,2320B	MKT
Alkalinity, Bicarbonate	265.		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:18	121,2320B	MKT
Solids, Total Dissolved	380		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/17/24 17:46	121,2540D	REM
Chloride	3.7		mg/l	1.0	0.89	1	-	12/17/24 00:55	121,4500CL-E	JER
Fluoride	0.04	J	mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 10:04	121,4500NO3-F	KAF
Nitrogen, Nitrate	5.06		mg/l	0.100	0.022	1	-	12/14/24 07:29	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	5.1		mg/l	0.10	0.046	1	-	12/14/24 07:29	121,4500NO3-F	KAF
Total Nitrogen	5.1		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.077	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:16	4,351.1	AT
Phosphate, Total	0.092		mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:25	121,4500P-E(M)	EYA
Sulfate	48.		mg/l	25	3.4	2.5	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.013	1	-	12/17/24 17:59	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-09

Date Collected: 12/12/24 14:05

Client ID: MW-13D

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:25	121,2320B	MKT
Alkalinity, Bicarbonate	20.3		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:25	121,2320B	MKT
Solids, Total Dissolved	100		mg/l	13	4.0	1.3	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/16/24 13:33	121,2540D	BAY
Chloride	26.		mg/l	1.0	0.89	1	-	12/17/24 00:56	121,4500CL-E	JER
Fluoride	0.02	J	mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 10:09	121,4500NO3-F	KAF
Nitrogen, Nitrate	2.37		mg/l	0.100	0.022	1	-	12/14/24 07:30	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	2.4		mg/l	0.10	0.046	1	-	12/14/24 07:30	121,4500NO3-F	KAF
Total Nitrogen	2.4		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.075	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:17	4,351.1	AT
Phosphate, Total	0.022	J	mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:26	121,4500P-E(M)	EYA
Sulfate	12.		mg/l	10	1.4	1	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.040	J	mg/l	0.050	0.013	1	-	12/17/24 18:11	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

SAMPLE RESULTS

Lab ID: L2473162-10

Date Collected: 12/12/24 13:30

Client ID: EB_121224

Date Received: 12/12/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:26	121,2320B	MKT
Alkalinity, Bicarbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 09:26	121,2320B	MKT
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/18/24 01:52	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/16/24 13:33	121,2540D	BAY
Chloride	ND		mg/l	1.0	0.89	1	-	12/17/24 13:32	121,4500CL-E	JER
Fluoride	ND		mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 10:10	121,4500NO3-F	KAF
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	12/14/24 07:31	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	12/14/24 07:31	121,4500NO3-F	KAF
Total Nitrogen	ND		mg/l	0.30	0.30	1	-	12/19/24 12:35	107,-	MRM
Nitrogen, Total Kjeldahl	0.144	J	mg/l	0.300	0.066	1	12/17/24 18:30	12/18/24 18:18	4,351.1	AT
Phosphate, Total	ND		mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:27	121,4500P-E(M)	EYA
Sulfate	1.9	J	mg/l	10	1.4	1	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.013	1	-	12/17/24 18:23	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 03-10 Batch: WG2009137-1										
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/14/24 09:32	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2009140-1										
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	12/14/24 05:52	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2009144-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	12/14/24 05:52	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 03-04 Batch: WG2009320-1										
Fluoride	ND		mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
General Chemistry - Westborough Lab for sample(s): 01,03,05-06,08-09 Batch: WG2009725-1										
Chloride	0.97	J	mg/l	1.0	0.89	1	-	12/17/24 00:20	121,4500CL-E	JER
General Chemistry - Westborough Lab for sample(s): 03,09-10 Batch: WG2009794-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/16/24 13:33	121,2540D	BAY
General Chemistry - Westborough Lab for sample(s): 01-02,05-10 Batch: WG2009964-1										
Fluoride	ND		mg/l	0.20	0.01	1	12/17/24 02:08	12/17/24 06:03	121,4500F-BC	DTH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG2009965-1										
Nitrogen, Nitrite	ND		mg/l	0.020	0.009	1	-	12/14/24 08:23	121,4500NO2-B	KAF
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2010169-1										
Nitrogen, Total Kjeldahl	0.099	J	mg/l	0.300	0.022	1	12/17/24 18:30	12/18/24 17:57	4,351.1	AT
General Chemistry - Westborough Lab for sample(s): 02,04,07,10 Batch: WG2010248-1										
Chloride	ND		mg/l	1.0	0.89	1	-	12/17/24 13:26	121,4500CL-E	JER
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-10 Batch: WG2010321-1										
Bromide	ND		mg/l	0.050	0.013	1	-	12/17/24 14:47	44,300.0	CVN
General Chemistry - Westborough Lab for sample(s): 01-02,04-08 Batch: WG2010401-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/17/24 17:46	121,2540D	REM
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2010490-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/18/24 01:52	121,2540C	DEW
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2010642-5										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 08:50	121,2320B	MKT
Alkalinity, Bicarbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/18/24 08:50	121,2320B	MKT



Project Name: CORAM MATERIALS

Lab Number: L2473162

Project Number: 2232.0006Y005

Report Date: 01/07/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2010681-1										
Sulfate	1.9	J	mg/l	10	1.4	1	12/18/24 11:30	12/18/24 11:30	121,4500SO4-E	MRW
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG2010879-1										
Phosphate, Total	ND		mg/l	0.031	0.012	1	12/18/24 15:33	12/19/24 10:00	121,4500P-E(M)	EYA



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-10 Batch: WG2009137-2								
Nitrogen, Nitrite	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2009140-2								
Nitrogen, Nitrate	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2009144-2								
Nitrogen, Nitrate/Nitrite	96		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 03-04 Batch: WG2009320-2								
Fluoride	90		-		78-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01,03,05-06,08-09 Batch: WG2009725-2								
Chloride	93		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 03,09-10 Batch: WG2009794-2								
Solids, Total Suspended	95		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-10 Batch: WG2009964-2								
Fluoride	90		-		78-120	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG2009965-2					
Nitrogen, Nitrite	106	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2010169-2					
Nitrogen, Total Kjeldahl	92	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 02,04,07,10 Batch: WG2010248-2					
Chloride	90	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10 Batch: WG2010321-2					
Bromide	97	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG2010401-2					
Solids, Total Suspended	90	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2010490-2					
Solids, Total Dissolved	84	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2010681-2					
Sulfate	105	-	90-110	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473162**Report Date:** 01/07/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG2010879-2					
Phosphate, Total	94	-	84-118	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-10				QC Batch ID: WG2009137-4			QC Sample: L2473162-06			Client ID: MP-1D		
Nitrogen, Nitrite	ND	4	4.14	104		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10				QC Batch ID: WG2009140-4			QC Sample: L2473162-06			Client ID: MP-1D		
Nitrogen, Nitrate	0.677	4	4.54	96		-	-		83-113	-		17
General Chemistry - Westborough Lab Associated sample(s): 01-10				QC Batch ID: WG2009144-4			QC Sample: L2473162-06			Client ID: MP-1D		
Nitrogen, Nitrate/Nitrite	0.68	4	4.5	96		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03-04				QC Batch ID: WG2009320-4			QC Sample: L2472333-04			Client ID: MS Sample		
Fluoride	0.08J	1	1.0	103		-	-		69-124	-		13
General Chemistry - Westborough Lab Associated sample(s): 01,03,05-06,08-09				QC Batch ID: WG2009725-4			QC Sample: L2473162-06			Client ID: MP-1D		
Chloride	12.	20	32	100		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-10				QC Batch ID: WG2009964-4			QC Sample: L2473162-06			Client ID: MP-1D		
Fluoride	0.05J	1	0.99	99		-	-		69-124	-		13
General Chemistry - Westborough Lab Associated sample(s): 01-02				QC Batch ID: WG2009965-4			QC Sample: L2473162-01			Client ID: MW-11S		
Nitrogen, Nitrite	ND	0.1	0.100	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10				QC Batch ID: WG2010169-4			QC Sample: L2473162-06			Client ID: MP-1D		
Nitrogen, Total Kjeldahl	0.124J	8	8.38	105		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 02,04,07,10				QC Batch ID: WG2010248-4			QC Sample: L2473538-01			Client ID: MS Sample		
Chloride	2.0	20	20	90		-	-		58-140	-		7

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010321-3 WG2010321-4 QC Sample: L2473162-06 Client ID: MP-1D									
Bromide	0.060	0.4	0.401	84	Q	0.400	84	Q	90-110 0 20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010681-4 QC Sample: L2473162-06 Client ID: MP-1D									
Sulfate	38.	100	140	103	-	-	55-147	-	14
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010879-4 QC Sample: L2473162-06 Client ID: MP-1D									
Phosphate, Total	0.071	1.53	1.62	101	-	-	80-120	-	15

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-10 QC Batch ID: WG2009137-3 QC Sample: L2473162-06 Client ID: MP-1D						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2009140-3 QC Sample: L2473162-06 Client ID: MP-1D						
Nitrogen, Nitrate	0.677	0.669	mg/l	1		17
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2009144-3 QC Sample: L2473162-06 Client ID: MP-1D						
Nitrogen, Nitrate/Nitrite	0.68	0.67	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG2009320-3 QC Sample: L2472333-04 Client ID: DUP Sample						
Fluoride	0.08J	0.08J	mg/l	NC		13
General Chemistry - Westborough Lab Associated sample(s): 01,03,05-06,08-09 QC Batch ID: WG2009725-3 QC Sample: L2473162-06 Client ID: MP-1D						
Chloride	12.	13	mg/l	8	Q	7
General Chemistry - Westborough Lab Associated sample(s): 03,09-10 QC Batch ID: WG2009794-3 QC Sample: L2473046-01 Client ID: DUP Sample						
Solids, Total Suspended	400	420	mg/l	5		32
General Chemistry - Westborough Lab Associated sample(s): 03,09-10 QC Batch ID: WG2009794-4 QC Sample: L2473290-02 Client ID: DUP Sample						
Solids, Total Suspended	310	350	mg/l	12		32
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-10 QC Batch ID: WG2009964-3 QC Sample: L2473162-06 Client ID: MP-1D						
Fluoride	0.05J	0.05J	mg/l	NC		13
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG2009965-3 QC Sample: L2473162-01 Client ID: MW-11S						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473162

Report Date: 01/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010169-3 QC Sample: L2473162-06 Client ID: MP-1D					
Nitrogen, Total Kjeldahl	0.124J	0.426	mg/l	NC	24
General Chemistry - Westborough Lab Associated sample(s): 02,04,07,10 QC Batch ID: WG2010248-3 QC Sample: L2473538-01 Client ID: DUP Sample					
Chloride	2.0	2.0	mg/l	0	7
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG2010401-3 QC Sample: L2473162-06 Client ID: MP-1D					
Solids, Total Suspended	5.1	5.8	mg/l	13	32
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG2010401-4 QC Sample: L2473253-01 Client ID: DUP Sample					
Solids, Total Suspended	41.	50	mg/l	20	32
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010490-3 QC Sample: L2473162-06 Client ID: MP-1D					
Solids, Total Dissolved	140	100	mg/l	33	Q 10
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010490-4 QC Sample: L2473162-07 Client ID: DUP_121224					
Solids, Total Dissolved	120	120	mg/l	0	10
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010642-7 QC Sample: L2465440-112 Client ID: DUP Sample					
Alkalinity, Carbonate	ND	ND	mg CaCO3/L	NC	10
Alkalinity, Bicarbonate	49.6	49.2	mg CaCO3/L	1	9
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010681-3 QC Sample: L2473162-06 Client ID: MP-1D					
Sulfate	38.	38	mg/l	0	14

Lab Duplicate Analysis*Batch Quality Control***Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473162**Report Date:** 01/07/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG2010879-3 QC Sample: L2473162-06 Client ID: MP-1D					
Phosphate, Total	0.071	0.074	mg/l	4	15

Project Name: CORAM MATERIALS**Lab Number:** L2473162**Project Number:** 2232.0006Y005**Report Date:** 01/07/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler Custody Seal**

A	Absent
B	Absent
C	Absent
D	Absent
E	Absent
F	Absent
G	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473162-01A	Vial HCl preserved	D	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-01B	Vial HCl preserved	D	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-01C	Vial HCl preserved	D	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-01D	Amber 100ml unpreserved	D	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-01E	Amber 100ml unpreserved	D	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-01F	Plastic 250ml HNO3 preserved	D	<2	<2	2.4	Y	Absent		FE-RI(180),ZN-RI(180),K-RI(180),BE-RI(180),SE-RI(180),MG-RI(180),AL-RI(180),MN-RI(180),TL-RI(180),CU-RI(180),SB-RI(180),CO-RI(180),BA-RI(180),CA-RI(180),AG-RI(180),CR-RI(180),HG-R(28),NI-RI(180),CD-RI(180),NA-RI(180),PB-RI(180),AS-RI(180),V-RI(180)
L2473162-01G	Plastic 250ml HNO3 preserved	D	<2	<2	2.4	Y	Absent		BA-UI(180),SB-UI(180),NI-UI(180),ZN-UI(180),AG-UI(180),CA-UI(180),CO-UI(180),K-UI(180),FE-UI(180),MG-UI(180),SE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),BE-UI(180),NA-UI(180),CR-UI(180),MN-UI(180),AS-UI(180),PB-UI(180),V-UI(180),CU-UI(180),TL-UI(180)
L2473162-01H	Plastic 250ml unpreserved/No Headspace	D	NA		2.4	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Serial_No: 01072519:49
Lab Number: L2473162
Report Date: 01/07/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473162-01J	Plastic 250ml unpreserved	D	7	7	2.4	Y	Absent		SUB-IODIDE(7)
L2473162-01K	Plastic 500ml H2SO4 preserved	D	<2	<2	2.4	Y	Absent		SUB-AMMONIUM(28)
L2473162-01L	Plastic 950ml unpreserved	D	7	7	2.4	Y	Absent		TSS-2540(7)
L2473162-01M	Plastic 950ml unpreserved	D	7	7	2.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO2(2),BR-300(28),TDS-2540(7)
L2473162-01N	Amber 950ml H2SO4 preserved	D	<4	<4	2.4	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-02A	Vial HCl preserved	D	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-02B	Vial HCl preserved	D	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-02C	Vial HCl preserved	D	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-02D	Amber 100ml unpreserved	D	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-02E	Amber 100ml unpreserved	D	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-02F	Plastic 250ml HNO3 preserved	D	<2	<2	2.4	Y	Absent		ZN-RI(180),FE-RI(180),SE-RI(180),K-RI(180),BE-RI(180),MG-RI(180),AL-RI(180),MN-RI(180),TL-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),CR-RI(180),NI-RI(180),AG-RI(180),HG-R(28),PB-RI(180),AS-RI(180),V-RI(180),NA-RI(180),CD-RI(180)
L2473162-02G	Plastic 250ml HNO3 preserved	D	<2	<2	2.4	Y	Absent		BA-UI(180),NI-UI(180),SB-UI(180),AG-UI(180),CA-UI(180),ZN-UI(180),CO-UI(180),K-UI(180),FE-UI(180),MG-UI(180),SE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),BE-UI(180),CR-UI(180),NA-UI(180),MN-UI(180),AS-UI(180),V-UI(180),CU-UI(180),PB-UI(180),TL-UI(180)
L2473162-02H	Plastic 250ml unpreserved/No Headspace	D	NA		2.4	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-02J	Plastic 250ml unpreserved	D	7	7	2.4	Y	Absent		SUB-IODIDE(7)
L2473162-02K	Plastic 500ml H2SO4 preserved	D	<2	<2	2.4	Y	Absent		SUB-AMMONIUM(28)
L2473162-02L	Plastic 950ml unpreserved	D	7	7	2.4	Y	Absent		TSS-2540(7)
L2473162-02M	Plastic 950ml unpreserved	D	7	7	2.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO2(2),BR-300(28),TDS-2540(7)

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L2473162-02N	Amber 950ml H2SO4 preserved	D	<4	<4	2.4	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-03A	Vial HCl preserved	C	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-03B	Vial HCl preserved	C	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-03C	Vial HCl preserved	C	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-03D	Amber 100ml unpreserved	C	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-03E	Amber 100ml unpreserved	C	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-03F	Plastic 250ml HNO3 preserved	C	<2	<2	2.4	Y	Absent		ZN-RI(180),FE-RI(180),BE-RI(180),SE-RI(180),K-RI(180),MG-RI(180),AL-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),CR-RI(180),AG-RI(180),HG-R(28),NI-RI(180),CD-RI(180),AS-RI(180),V-RI(180),NA-RI(180),PB-RI(180)
L2473162-03G	Plastic 250ml HNO3 preserved	C	<2	<2	2.4	Y	Absent		BA-UI(180),NI-UI(180),SB-UI(180),AG-UI(180),CA-UI(180),ZN-UI(180),CO-UI(180),K-UI(180),MG-UI(180),FE-UI(180),SE-UI(180),HG-U(28),CD-UI(180),CR-UI(180),BE-UI(180),MN-UI(180),AL-UI(180),NA-UI(180),PB-UI(180),AS-UI(180),CU-UI(180),TL-UI(180),V-UI(180)
L2473162-03H	Plastic 250ml unpreserved/No Headspace	C	NA		2.4	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-03J	Plastic 250ml unpreserved	C	7	7	2.4	Y	Absent		SUB-IODIDE(7)
L2473162-03K	Plastic 500ml H2SO4 preserved	C	<2	<2	2.4	Y	Absent		SUB-AMMONIUM(28)
L2473162-03L	Plastic 950ml unpreserved	C	7	7	2.4	Y	Absent		TSS-2540(7)
L2473162-03M	Plastic 950ml unpreserved	C	7	7	2.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2473162-03N	Amber 950ml H2SO4 preserved	C	<4	<4	2.4	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-04A	Vial HCl preserved	C	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-04B	Vial HCl preserved	C	NA		2.4	Y	Absent		NYTCL-8260(14)
L2473162-04C	Vial HCl preserved	C	NA		2.4	Y	Absent		NYTCL-8260(14)

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L2473162-04D	Amber 100ml unpreserved	C	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-04E	Amber 100ml unpreserved	C	7	7	2.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-04F	Plastic 250ml HNO3 preserved	C	<2	<2	2.4	Y	Absent		FE-RI(180),ZN-RI(180),SE-RI(180),BE-RI(180),K-RI(180),MG-RI(180),AL-RI(180),MN-RI(180),TL-RI(180),CU-RI(180),CO-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),CR-RI(180),AG-RI(180),HG-R(28),AS-RI(180),CD-RI(180),PB-RI(180),V-RI(180),NA-RI(180)
L2473162-04G	Plastic 250ml HNO3 preserved	C	<2	<2	2.4	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),AG-UI(180),CA-UI(180),ZN-UI(180),K-UI(180),CO-UI(180),SE-UI(180),FE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),AL-UI(180),MN-UI(180),CR-UI(180),NA-UI(180),BE-UI(180),PB-UI(180),V-UI(180),AS-UI(180),CU-UI(180),TL-UI(180)
L2473162-04H	Plastic 250ml unpreserved/No Headspace	C	NA		2.4	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-04J	Plastic 250ml unpreserved	C	7	7	2.4	Y	Absent		SUB-IODIDE(7)
L2473162-04K	Plastic 500ml H2SO4 preserved	C	<2	<2	2.4	Y	Absent		SUB-AMMONIUM(28)
L2473162-04L	Plastic 950ml unpreserved	C	7	7	2.4	Y	Absent		TSS-2540(7)
L2473162-04M	Plastic 950ml unpreserved	C	7	7	2.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2473162-04N	Amber 950ml H2SO4 preserved	C	<4	<4	2.4	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-05A	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2473162-05B	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2473162-05C	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2473162-05D	Amber 100ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-05E	Amber 100ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)

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L2473162-05F	Plastic 250ml HNO3 preserved	F	<2	<2	4.0	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),K-RI(180),SE-RI(180),AL-RI(180),MG-RI(180),MN-RI(180),TL-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),AG-RI(180),NI-RI(180),HG-R(28),CR-RI(180),V-RI(180),CD-RI(180),NA-RI(180),AS-RI(180),PB-RI(180)
L2473162-05G	Plastic 250ml HNO3 preserved	F	<2	<2	4.0	Y	Absent		SB-UI(180),BA-UI(180),NI-UI(180),CA-UI(180),AG-UI(180),ZN-UI(180),K-UI(180),CO-UI(180),FE-UI(180),SE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),CR-UI(180),BE-UI(180),AL-UI(180),MN-UI(180),NA-UI(180),CU-UI(180),TL-UI(180),PB-UI(180),AS-UI(180),V-UI(180)
L2473162-05H	Plastic 250ml unpreserved/No Headspace	E	NA		2.3	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-05J	Plastic 250ml unpreserved	E	7	7	2.3	Y	Absent		SUB-IODIDE(7)
L2473162-05K	Plastic 500ml H2SO4 preserved	F	<2	<2	4.0	Y	Absent		SUB-AMMONIUM(28)
L2473162-05L	Plastic 950ml unpreserved	E	7	7	2.3	Y	Absent		TSS-2540(7)
L2473162-05M	Plastic 950ml unpreserved	E	7	7	2.3	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2473162-05N	Amber 950ml H2SO4 preserved	F	<4	<4	4.0	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-06A	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2473162-06A1	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2473162-06A2	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-06B	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2473162-06B1	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2473162-06B2	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-06C	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2473162-06C1	Vial HCl preserved	B	NA		2.0	Y	Absent		NYTCL-8260(14)
L2473162-06C2	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-06D	Amber 100ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)

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L2473162-06D1	Amber 100ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-06D2	Amber 100ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-06E	Amber 100ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-06E1	Amber 100ml unpreserved	B	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-06E2	Amber 100ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-06F	Plastic 250ml HNO3 preserved	B	<2	<2	2.0	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),SE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),AG-RI(180),HG-R(28),CR-RI(180),NI-RI(180),CD-RI(180),NA-RI(180),PB-RI(180),V-RI(180),AS-RI(180)
L2473162-06F1	Plastic 250ml HNO3 preserved	B	<2	<2	2.0	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),SE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),AG-RI(180),HG-R(28),CR-RI(180),NI-RI(180),CD-RI(180),NA-RI(180),PB-RI(180),V-RI(180),AS-RI(180)
L2473162-06F2	Plastic 250ml HNO3 preserved	A	<2	<2	2.3	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),SE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),AG-RI(180),HG-R(28),CR-RI(180),NI-RI(180),CD-RI(180),NA-RI(180),PB-RI(180),V-RI(180),AS-RI(180)
L2473162-06G	Plastic 250ml HNO3 preserved	B	<2	<2	2.0	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),AG-UI(180),ZN-UI(180),CA-UI(180),K-UI(180),CO-UI(180),FE-UI(180),MG-UI(180),SE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),CR-UI(180),BE-UI(180),MN-UI(180),NA-UI(180),AS-UI(180),V-UI(180),PB-UI(180),CU-UI(180),TL-UI(180)

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L2473162-06G1	Plastic 250ml HNO3 preserved	B	<2	<2	2.0	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),AG-UI(180),ZN-UI(180),CA-UI(180),K-UI(180),CO-UI(180),FE-UI(180),MG-UI(180),SE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),CR-UI(180),BE-UI(180),MN-UI(180),NA-UI(180),AS-UI(180),V-UI(180),PB-UI(180),CU-UI(180),TL-UI(180)
L2473162-06G2	Plastic 250ml HNO3 preserved	A	<2	<2	2.3	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),AG-UI(180),ZN-UI(180),CA-UI(180),K-UI(180),CO-UI(180),FE-UI(180),MG-UI(180),SE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),CR-UI(180),BE-UI(180),MN-UI(180),NA-UI(180),AS-UI(180),V-UI(180),PB-UI(180),CU-UI(180),TL-UI(180)
L2473162-06H	Plastic 250ml unpreserved/No Headspace	B	NA		2.0	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-06H1	Plastic 250ml unpreserved/No Headspace	B	NA		2.0	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-06H2	Plastic 250ml unpreserved/No Headspace	A	NA		2.3	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-06J	Plastic 250ml unpreserved	B	7	7	2.0	Y	Absent		SUB-IODIDE(7)
L2473162-06J1	Plastic 250ml unpreserved	B	7	7	2.0	Y	Absent		SUB-IODIDE(7)
L2473162-06J2	Plastic 250ml unpreserved	A	7	7	2.3	Y	Absent		SUB-IODIDE(7)
L2473162-06K	Plastic 500ml H2SO4 preserved	B	<2	<2	2.0	Y	Absent		SUB-AMMONIUM(28)
L2473162-06K1	Plastic 500ml H2SO4 preserved	B	<2	<2	2.0	Y	Absent		TKN-351(28),SUB-AMMONIUM(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-06K2	Plastic 500ml H2SO4 preserved	A	<2	<2	2.3	Y	Absent		TKN-351(28),SUB-AMMONIUM(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-06L	Plastic 950ml unpreserved	B	7	7	2.0	Y	Absent		TSS-2540(7)
L2473162-06L1	Plastic 950ml unpreserved	B	7	7	2.0	Y	Absent		TSS-2540(7)
L2473162-06L2	Plastic 950ml unpreserved	A	7	7	2.3	Y	Absent		TSS-2540(7)
L2473162-06M	Plastic 950ml unpreserved	B	7	7	2.0	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2473162-06M1	Plastic 950ml unpreserved	B	7	7	2.0	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)

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L2473162-06M2	Plastic 950ml unpreserved	A	7	7	2.3	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2473162-06N	Amber 950ml H2SO4 preserved	B	<4	<4	2.0	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-06N1	Amber 950ml H2SO4 preserved	B	<4	<4	2.0	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-06N2	Amber 950ml H2SO4 preserved	A	<4	<4	2.3	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-07A	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-07B	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-07C	Vial HCl preserved	A	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-07D	Amber 100ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-07E	Amber 100ml unpreserved	A	7	7	2.3	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-07F	Plastic 250ml HNO3 preserved	A	<2	<2	2.3	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),K-RI(180),SE-RI(180),MG-RI(180),AL-RI(180),MN-RI(180),TL-RI(180),CO-RI(180),SB-RI(180),CU-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),CR-RI(180),AG-RI(180),HG-R(28),PB-RI(180),AS-RI(180),NA-RI(180),CD-RI(180),V-RI(180)
L2473162-07G	Plastic 250ml HNO3 preserved	A	<2	<2	2.3	Y	Absent		SB-UI(180),NI-UI(180),BA-UI(180),CA-UI(180),AG-UI(180),ZN-UI(180),CO-UI(180),K-UI(180),MG-UI(180),SE-UI(180),FE-UI(180),HG-U(28),CD-UI(180),MN-UI(180),NA-UI(180),CR-UI(180),AL-UI(180),BE-UI(180),AS-UI(180),TL-UI(180),CU-UI(180),V-UI(180),PB-UI(180)
L2473162-07H	Plastic 250ml unpreserved/No Headspace	A	NA		2.3	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-07J	Plastic 250ml unpreserved	A	7	7	2.3	Y	Absent		SUB-IODIDE(7)
L2473162-07K	Plastic 500ml H2SO4 preserved	A	<2	<2	2.3	Y	Absent		SUB-AMMONIUM(28)
L2473162-07L	Plastic 950ml unpreserved	A	7	7	2.3	Y	Absent		TSS-2540(7)
L2473162-07M	Plastic 950ml unpreserved	A	7	7	2.3	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)

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L2473162-07N	Amber 950ml H2SO4 preserved	A	<4	<4	2.3	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-08A	Vial HCl preserved	G	NA		2.2	Y	Absent		NYTCL-8260(14)
L2473162-08B	Vial HCl preserved	G	NA		2.2	Y	Absent		NYTCL-8260(14)
L2473162-08C	Vial HCl preserved	G	NA		2.2	Y	Absent		NYTCL-8260(14)
L2473162-08D	Amber 100ml unpreserved	G	7	7	2.2	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-08E	Amber 100ml unpreserved	G	7	7	2.2	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-08F	Plastic 250ml HNO3 preserved	G	<2	<2	2.2	Y	Absent		ZN-RI(180),FE-RI(180),SE-RI(180),K-RI(180),BE-RI(180),MG-RI(180),AL-RI(180),MN-RI(180),TL-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),AG-RI(180),CR-RI(180),HG-R(28),V-RI(180),AS-RI(180),CD-RI(180),NA-RI(180),PB-RI(180)
L2473162-08G	Plastic 250ml HNO3 preserved	G	<2	<2	2.2	Y	Absent		SB-UI(180),NI-UI(180),BA-UI(180),AG-UI(180),CA-UI(180),ZN-UI(180),CO-UI(180),K-UI(180),MG-UI(180),SE-UI(180),FE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),CR-UI(180),NA-UI(180),MN-UI(180),BE-UI(180),CU-UI(180),V-UI(180),TL-UI(180),AS-UI(180),PB-UI(180)
L2473162-08H	Plastic 250ml unpreserved/No Headspace	G	NA		2.2	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-08J	Plastic 250ml unpreserved	G	7	7	2.2	Y	Absent		SUB-IODIDE(7)
L2473162-08K	Plastic 500ml H2SO4 preserved	G	<2	<2	2.2	Y	Absent		SUB-AMMONIUM(28)
L2473162-08L	Plastic 950ml unpreserved	G	7	7	2.2	Y	Absent		TSS-2540(7)
L2473162-08M	Plastic 950ml unpreserved	G	7	7	2.2	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2473162-08N	Amber 950ml H2SO4 preserved	G	<4	<4	2.2	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-09A	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2473162-09B	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)
L2473162-09C	Vial HCl preserved	F	NA		4.0	Y	Absent		NYTCL-8260(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473162-09D	Amber 100ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-09E	Amber 100ml unpreserved	F	7	7	4.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-09F	Plastic 250ml HNO3 preserved	F	<2	<2	4.0	Y	Absent		ZN-RI(180),FE-RI(180),SE-RI(180),K-RI(180),BE-RI(180),MG-RI(180),AL-RI(180),TL-RI(180),MN-RI(180),SB-RI(180),CU-RI(180),CO-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),AG-RI(180),CR-RI(180),HG-R(28),AS-RI(180),NA-RI(180),PB-RI(180),CD-RI(180),V-RI(180)
L2473162-09G	Plastic 250ml HNO3 preserved	F	<2	<2	4.0	Y	Absent		NI-UI(180),SB-UI(180),BA-UI(180),ZN-UI(180),CA-UI(180),AG-UI(180),K-UI(180),CO-UI(180),FE-UI(180),MG-UI(180),SE-UI(180),HG-U(28),CD-UI(180),NA-UI(180),CR-UI(180),MN-UI(180),BE-UI(180),AL-UI(180),TL-UI(180),V-UI(180),PB-UI(180),CU-UI(180),AS-UI(180)
L2473162-09H	Plastic 250ml unpreserved/No Headspace	F	NA		4.0	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-09J	Plastic 250ml unpreserved	F	7	7	4.0	Y	Absent		SUB-IODIDE(7)
L2473162-09K	Plastic 500ml H2SO4 preserved	F	<2	<2	4.0	Y	Absent		SUB-AMMONIUM(28)
L2473162-09L	Plastic 950ml unpreserved	F	7	7	4.0	Y	Absent		TSS-2540(7)
L2473162-09M	Plastic 950ml unpreserved	F	7	7	4.0	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2473162-09N	Amber 950ml H2SO4 preserved	F	<4	<4	4.0	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-10A	Vial HCl preserved	E	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-10B	Vial HCl preserved	E	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-10C	Vial HCl preserved	E	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-10D	Amber 100ml unpreserved	E	7	7	2.3	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473162-10E	Amber 100ml unpreserved	E	7	7	2.3	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473162-10F	Plastic 250ml HNO3 preserved	E	<2	<2	2.3	Y	Absent		FE-RI(180),ZN-RI(180),K-RI(180),SE-RI(180),BE-RI(180),AL-RI(180),MG-RI(180),MN-RI(180),TL-RI(180),CU-RI(180),CO-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),CR-RI(180),AG-RI(180),HG-R(28),CD-RI(180),AS-RI(180),NA-RI(180),PB-RI(180),V-RI(180)
L2473162-10G	Plastic 250ml HNO3 preserved	E	<2	<2	2.3	Y	Absent		SB-UI(180),BA-UI(180),NI-UI(180),CA-UI(180),AG-UI(180),ZN-UI(180),CO-UI(180),K-UI(180),SE-UI(180),MG-UI(180),FE-UI(180),HG-U(28),CD-UI(180),MN-UI(180),AL-UI(180),CR-UI(180),NA-UI(180),BE-UI(180),CU-UI(180),V-UI(180),AS-UI(180),TL-UI(180),PB-UI(180)
L2473162-10H	Plastic 250ml unpreserved/No Headspace	E	NA		2.3	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473162-10J	Plastic 250ml unpreserved	E	7	7	2.3	Y	Absent		SUB-IODIDE(7)
L2473162-10K	Plastic 500ml H2SO4 preserved	E	<2	<2	2.3	Y	Absent		SUB-AMMONIUM(28)
L2473162-10L	Plastic 950ml unpreserved	E	7	7	2.3	Y	Absent		TSS-2540(7)
L2473162-10M	Plastic 950ml unpreserved	E	7	7	2.3	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2473162-10N	Amber 950ml H2SO4 preserved	E	<4	<4	2.3	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473162-11A	Vial HCl preserved	E	NA		2.3	Y	Absent		NYTCL-8260(14)
L2473162-11B	Vial HCl preserved	E	NA		2.3	Y	Absent		NYTCL-8260(14)

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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.

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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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.)

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 107 Calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **24**Published Date: **01/07/2025**Page **1** of **1****Certification Information**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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.

MADEP-APH.**Nonpotable Water:** **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, SM4500CI-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, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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 Project Manager.

L2473162 19DEC24
ROUX - NY

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 4		Date Rec'd in Lab 12/13/24		L2473162 19DEC24 ROUX - NY					
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place-Yaphank Road Project #: 2232.0006Y005 (Use Project name as Project #) ☐ Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Stand ☒ d Due Date: Rush (only if pre apprd) ☐ # of Days:		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) PO # ☐ Other		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:					
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		ANALYSIS		Sample Filtration ☒ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Sample Specific Comments							
Please specify Metals or TAL.		ANALYSIS		Sample Filtration		Sample Specific Comments							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007/S	TDS-2540/TSS-2540	CI-4500/Br-300	NO3-4500	NO2-4500	TOTAL NITROGEN/tn 351	
73162-01	MW-11S	12/12/24 825	AQ	JC	X	X	X	X	X	X	X	X	14
02	MW-11D	12/12/24 842	AQ	AI	X	X	X	X	X	X	X	X	14
03	MW-1SR	12/12/24 950	AQ	AI	X	X	X	X	X	X	X	X	14
04	MW-1DR2	12/12/24 1010	AQ	JC	X	X	X	X	X	X	X	X	14
05	MP-1	12/12/24 1140	AQ	AI	X	X	X	X	X	X	X	X	14
06	MP-1D	12/12/24 1205	AQ	JC	X	X	X	X	X	X	X	X	14
07	DWP-121224	12/12/24 1200	AQ	JC	X	X	X	X	X	X	X	X	MS/MSD 42
08	MW-13S	12/12/24 1400	AQ	JC	X	X	X	X	X	X	X	X	14
09	MW-13D	12/12/24 1405	AQ	AI	X	X	X	X	X	X	X	X	14
10	EB-121224	12/12/24 1330	AQ	AI	X	X	X	X	X	X	X	X	14
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type	Preservative	V	A	P	A	P	A	A	A	
Relinquished By: <i>Anthony Green</i> Date/Time: 12/13/24 0455		Received By: <i>Anthony Green</i> Date/Time: 12/13/24 0455		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS .									

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12206: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 4		Date Rec'd in Lab 12/13/24		ALPHA Job # 62973162						
		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place - Yaphank Rd Project # 2232.00006 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #								
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Stand ☒ d Due Date: Rush (only if pre app ☐ d) # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:								
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: SUB IODIDE send from WB to PACE INDY/ SUB AMMONIUM send from WB to Galbraith Laboratories Please specify Metals or TAL.						ANALYSIS SO4-4500 ALK-HCO3-2320 ALK-CO3-2320 F-4500 TP04-4500 SUB-IODIDE SUB-AMMONIUM A2-1,4-DIOXANE-SIM		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	SO4-4500	ALK-HCO3-2320	ALK-CO3-2320	F-4500	TP04-4500	SUB-IODIDE	SUB-AMMONIUM	A2-1,4-DIOXANE-SIM	Sample Specific Comments
73162-01	MW-11S	12/12	825	AQ	JC	X	X	X	X	X	X	X		14
02	MW-11D	12/12	842	AQ	AI	X	X	X	X	X	X	X		14
03	MW-1SR	12/12	950	AQ	AI	X	X	X	X	X	X	X		14
04	MW-1DR2	12/12	1010	AQ	JC	X	X	X	X	X	X	X		14
05	MP-1	12/12	1140	AQ	AI	X	X	X	X	X	X	X		14
06	MP-1D	12/12	1205	AQ	JC	X	X	X	X	X	X	X	MS/MSD	42
07	DUP-121224	12/12	1200	AQ	JC	X	X	X	X	X	X	X		14
08	MW-13S	12/12	1400	AQ	JC	X	X	X	X	X	X	X		14
09	MW-13D	12/12	1405	AQ	AI	X	X	X	X	X	X	X		14
10	FB-121224	12/12	1330	AQ	AI	X	X	X	X	X	X	X		14
Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		P P P P A P P A A A A A D A D A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS .				
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time						
		Anthony Green		12/13/24 0155		Anthony Green		12/13/24 0155						
		12/13/24 0400				12/13/24 0400								

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 3 of 4		Date Rec'd in Lab 12/13/24		ALPHA Job # 12473162					
Client Information Client: ROUX Env. Eng. & Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place - Yaphank Rd Project #: 2232.0006Y005 (Use Project name as Project #) ☐ Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Standard ☒ Rush (only if pre approved) ☐ Due Date: # of Days:		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge					
Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:		These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Sub SULFIDE courier to PACE MELVILLE Please specify Metals or TAL.											
ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments											
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		SUB-SULFIDE		14	
3162-01		MW-11S		12/12 825		AQ		JC		X		14	
-02		MW-11D		12/12 842		AQ		AT		X		14	
-03		MW-1SR		12/12 950		AQ		AT		X		14	
-04		MW-1DR2		12/12 1010		AQ		JC		X		14	
-05		MP-1		12/12 1140		AQ		AT		X		14	
-06		MP-1D		12/12 1205		AQ		JC		X		14	
-07		DUP. 121224		12/12 1200		AQ		JC		X		14	
-08		MW-13S		12/12 1400		AQ		JC		X		14	
-09		MW-13D		12/12 1405		AQ		AT		X		14	
-10		ER. 121224		12/12 1330		AQ		HZ		X		14	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P		Preservative C		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.			
Relinquished By:		Date/Time		Received By:		Date/Time		12/13/24 0155		12/13/24 0400		12/13/24 0400	
Anthony Green		12/13/24 0155		Anthony Green		12/13/24 0155		12/13/24 0400		12/13/24 0400		12/13/24 0400	

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>4</u> of <u>4</u>		Date Rec'd in Lab <u>12/13/24</u>		ALPHA Job # <u>62473162</u>												
		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place-Yaphank Road Project #: 2232.0006Y005 (Use Project name as Project #)		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #														
		Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:														
Turn-Around Time ☒ Standard ☐ Rush (only if pre-approved) Due Date: # of Days:		ANALYSIS		Sample Filtration ☒ Done ☐ Lab to do ☐ Preservation ☐ Lab to do (Please Specify below)		Total Bottles														
These samples have been previously analyzed by Alpha Other project specific requirements/comments:		ANALYSIS TABLE: <table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td>NYTCL-8260</td> <td>NYTCL-8270/SIM-RVT</td> <td>TAL600/TAL-2007S</td> <td>TDS-2540</td> <td>CI-4500/Br-300</td> <td>NO3-4500</td> <td>NO2-4500</td> <td>TOTAL NITROGEN (tkn 35)</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		NYTCL-8260	NYTCL-8270/SIM-RVT		TAL600/TAL-2007S	TDS-2540	CI-4500/Br-300	NO3-4500	NO2-4500	TOTAL NITROGEN (tkn 35)	X							
NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	TDS-2540	CI-4500/Br-300	NO3-4500	NO2-4500	TOTAL NITROGEN (tkn 35)													
X																				
Please specify Metals or TAL.		ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		Total Bottles								
		73162-11		TRIP BLANK		12/10/24		AQ		ML										
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <u>V</u>		Preservative <u>B</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.										
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By: <u>Anthony Green</u>		Date/Time: <u>12/13/24 0155</u>		Received By: <u>Anthony Green</u>		Date/Time: <u>DEC 12 2024 2120</u>												
		<u>12/13/24 0400</u>		<u>12/13/24 0400</u>																



December 18, 2024

Jennifer Byrnes

,

RE: Project: L2473162
Pace Project No.: 70327757

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2473162
Pace Project No.: 70327757

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

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SAMPLE SUMMARY

Project: L2473162

Pace Project No.: 70327757

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70327757001	MW-11S	Water	12/12/24 08:25	12/13/24 07:00
70327757002	MW-11D	Water	12/12/24 08:42	12/13/24 07:00
70327757003	MW-1SR	Water	12/12/24 09:50	12/13/24 07:00
70327757004	MW-1DR2	Water	12/12/24 10:10	12/13/24 07:00
70327757005	MP-1	Water	12/12/24 11:40	12/13/24 07:00
70327757006	MP-1D	Water	12/12/24 12:05	12/13/24 07:00
70327757007	DUP_121224	Water	12/12/24 12:00	12/13/24 07:00
70327757008	MW-13S	Water	12/12/24 14:00	12/13/24 07:00
70327757009	MW-13D	Water	12/12/24 14:05	12/13/24 07:00
70327757010	EB_121224	Water	12/12/24 13:00	12/13/24 07:00

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SAMPLE ANALYTE COUNT

Project: L2473162
Pace Project No.: 70327757

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70327757001	MW-11S	SM22 4500-S2 F	JWM	1
70327757002	MW-11D	SM22 4500-S2 F	JWM	1
70327757003	MW-1SR	SM22 4500-S2 F	JWM	1
70327757004	MW-1DR2	SM22 4500-S2 F	JWM	1
70327757005	MP-1	SM22 4500-S2 F	JWM	1
70327757006	MP-1D	SM22 4500-S2 F	JWM	1
70327757007	DUP_121224	SM22 4500-S2 F	JWM	1
70327757008	MW-13S	SM22 4500-S2 F	JWM	1
70327757009	MW-13D	SM22 4500-S2 F	JWM	1
70327757010	EB_121224	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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PROJECT NARRATIVE

Project: L2473162
Pace Project No.: 70327757

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: December 18, 2024

General Information:

10 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 375794

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70327757006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1969285)
 - Sulfide
- MSD (Lab ID: 1969286)
 - Sulfide

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: MW-11S		Lab ID: 70327757001		Collected: 12/12/24 08:25		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	2.0	mg/L	2.0	0.20	1		12/18/24 14:38		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: MW-11D		Lab ID: 70327757002		Collected: 12/12/24 08:42		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 14:41		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: MW-1SR		Lab ID: 70327757003		Collected: 12/12/24 09:50		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 14:44		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: MW-1DR2		Lab ID: 70327757004		Collected: 12/12/24 10:10		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 14:48		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: MP-1		Lab ID: 70327757005		Collected: 12/12/24 11:40		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 14:52		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: MP-1D		Lab ID: 70327757006		Collected: 12/12/24 12:05		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 14:55		M1

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: DUP_121224		Lab ID: 70327757007		Collected: 12/12/24 12:00		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:06		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: MW-13S		Lab ID: 70327757008		Collected: 12/12/24 14:00		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:09		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 70327757

Sample: MW-13D		Lab ID: 70327757009		Collected: 12/12/24 14:05		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:12		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 70327757

Sample: EB_121224		Lab ID: 70327757010		Collected: 12/12/24 13:00		Received: 12/13/24 07:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:15		

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QUALITY CONTROL DATA

Project: L2473162

Pace Project No.: 70327757

QC Batch: 375794

Analysis Method: SM22 4500-S2 F

QC Batch Method: SM22 4500-S2 F

Analysis Description: 4500S2F W Sulfide Iodometric

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70327757001, 70327757002, 70327757003, 70327757004, 70327757005, 70327757006, 70327757007, 70327757008, 70327757009, 70327757010

METHOD BLANK: 1969283

Matrix: Water

Associated Lab Samples: 70327757001, 70327757002, 70327757003, 70327757004, 70327757005, 70327757006, 70327757007, 70327757008, 70327757009, 70327757010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	12/18/24 14:34	

LABORATORY CONTROL SAMPLE: 1969284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	14	13.6	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1969285 1969286

Parameter	Units	70327757006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<0.20	2.8	2.8	1.7J	1.7J	60	60	70-130		20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: L2473162
Pace Project No.: 70327757

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2473162
Pace Project No.: 70327757

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70327757001	MW-11S	SM22 4500-S2 F	375794		
70327757002	MW-11D	SM22 4500-S2 F	375794		
70327757003	MW-1SR	SM22 4500-S2 F	375794		
70327757004	MW-1DR2	SM22 4500-S2 F	375794		
70327757005	MP-1	SM22 4500-S2 F	375794		
70327757006	MP-1D	SM22 4500-S2 F	375794		
70327757007	DUP_121224	SM22 4500-S2 F	375794		
70327757008	MW-13S	SM22 4500-S2 F	375794		
70327757009	MW-13D	SM22 4500-S2 F	375794		
70327757010	EB_121224	SM22 4500-S2 F	375794		

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WO#: 70327757



70327757

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2473162

Page 1

Client Information				Project Information		Regulatory Requirements/Report Limits		
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com		Project Location: NY Project Manager: Jennifer Byrnes Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables		State/Federal Program: Regulatory Criteria: Report to MDL				
Project Specific Requirements and/or Report Requirements Reference following Pace Job Number on final report/deliverables: L2473162 Report to include Method and/or Regulatory required batch QC Additional Comments: ASPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
L2473162-01		MW-11S	12-12-24 08:25	WATER	Sulfide		MS:MSD	0
L2473162-02		MW-11D	12-12-24 08:42	WATER	Sulfide			0
L2473162-03		MW-1SR	12-12-24 09:50	WATER	Sulfide			0
L2473162-04		MW-1DR2	12-12-24 10:10	WATER	Sulfide			0
L2473162-05		MP-1	12-12-24 11:40	WATER	Sulfide			0
L2473162-06		MP-1D	12-12-24 12:05	WATER	Sulfide			0
L2473162-07		DUP_121224	12-12-24 12:00	WATER	Sulfide			0
L2473162-08		MW-13S	12-12-24 14:00	WATER	Sulfide			0
L2473162-09		MW-13D	12-12-24 14:05	WATER	Sulfide			0
L2473162-10		EB_121224	12-12-24 13:00	WATER	Sulfide			0
Relinquished By:			Date/Time:		Received By:		Date/Time:	
Pace 121224			12/13/24		Diana Lane Pace		12/13/24	
Diana Lane Pace			12/12/24 1925		Diana Lane Pace		12/13/24 7:45AM	
Form No: AL_subcoc								

DC# Title: Excel Form Template

Effective Date:

WO#: 70327757

Client Name:

ALPHA

Project #

PM: BDR

Due Date: 12/24/24

CLIENT: ALPHA

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pac ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☒ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ NoneThermometer Used: Ther Correction Factor: 0.0 ☐ Samples on ice, cooling process has begun
Cooler Temperature (°C): 0.3 Cooler Temperature Corrected (°C): 0.3 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX,
or VA (check map)? ☐ Yes ☒ NoDid samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: **ABB 12/16/24**

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested ☒ Yes ☐ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	
Containers Intact: ☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: <u>SL</u> <u>WT</u> <u>OIL</u> <u>OTHER</u>	

Date and Initials of person checking preservation: **ABB 12/16/24**

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # <u>213624</u>	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, ☒ Yes ☐ No ☐ N/A NAOH > 12 Cyanide)	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	14.
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	Positive for Res. Chlorine? Y N
KI starch test strips Lot #	15.
Residual chlorine strips Lot #	Positive for Sulfide? Y N
SM 4500 CN samples checked for sul ☐ Yes ☐ No ☒ N/A	16.
Lead Acetate Strips Lot #	17.
Headspace in ALK Bottle (>6mm): ☐ Yes ☐ No ☒ N/A	
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



December 24, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2473162
Pace Project No.: 50390319

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA



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CERTIFICATIONS

Project: L2473162
Pace Project No.: 50390319

Pace Analytical Services Indianapolis	
7726 Moller Road, Indianapolis, IN 46268	Oklahoma Laboratory #: 9204
Illinois Accreditation #: 200074	Texas Certification #: T104704355
Indiana Drinking Water Laboratory #: C-49-06	Washington Dept of Ecology #: C1081
Kansas/TNI Certification #: E-10177	Wisconsin Laboratory #: 999788130
Kentucky UST Agency Interest #: 80226	USDA Foreign Soil Permit #: 525-23-13-23119
Kentucky WW Laboratory ID #: 98019	USDA Compliance Agreement #: IN-SL-22-001
Michigan Drinking Water Laboratory #9050	

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SAMPLE SUMMARY

Project: L2473162

Pace Project No.: 50390319

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50390319001	MW-11S	Water	12/12/24 08:25	12/17/24 09:40
50390319002	MW-11D	Water	12/12/24 08:42	12/17/24 09:40
50390319003	MW-1SR	Water	12/12/24 09:50	12/17/24 09:40
50390319004	MW-1DR2	Water	12/12/24 10:10	12/17/24 09:40
50390319005	MP-1	Water	12/12/24 11:40	12/17/24 09:40
50390319006	MP-1D	Water	12/12/24 12:05	12/17/24 09:40
50390319007	DUP_121224	Water	12/12/24 12:00	12/17/24 09:40
50390319008	MW-13S	Water	12/12/24 14:00	12/17/24 09:40
50390319009	MW-13D	Water	12/12/24 14:05	12/17/24 09:40
50390319010	EB_121224	Water	12/12/24 13:30	12/17/24 09:40

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SAMPLE ANALYTE COUNT

Project: L2473162

Pace Project No.: 50390319

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50390319001	MW-11S	EPA 9056	DMP1	1
50390319002	MW-11D	EPA 9056	DMP1	1
50390319003	MW-1SR	EPA 9056	DMP1	1
50390319004	MW-1DR2	EPA 9056	DMP1	1
50390319005	MP-1	EPA 9056	DMP1	1
50390319006	MP-1D	EPA 9056	DMP1	1
50390319007	DUP_121224	EPA 9056	DMP1	1
50390319008	MW-13S	EPA 9056	DMP1	1
50390319009	MW-13D	EPA 9056	DMP1	1
50390319010	EB_121224	EPA 9056	DMP1	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-11S		Lab ID: 50390319001		Collected: 12/12/24 08:25		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 02:05		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 50390319

Sample: MW-11D		Lab ID: 50390319002		Collected: 12/12/24 08:42		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 02:26		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-1SR		Lab ID: 50390319003		Collected: 12/12/24 09:50		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 02:48		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-1DR2		Lab ID: 50390319004		Collected: 12/12/24 10:10		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 03:11		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 50390319

Sample: MP-1		Lab ID: 50390319005		Collected: 12/12/24 11:40		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 03:33		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MP-1D		Lab ID: 50390319006		Collected: 12/12/24 12:05		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 03:54		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: DUP_121224		Lab ID: 50390319007		Collected: 12/12/24 12:00		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 05:43		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-13S		Lab ID: 50390319008		Collected: 12/12/24 14:00		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 06:07		

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ANALYTICAL RESULTS

Project: L2473162
Pace Project No.: 50390319

Sample: MW-13D		Lab ID: 50390319009		Collected: 12/12/24 14:05		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 06:28		

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ANALYTICAL RESULTS

Project: L2473162

Pace Project No.: 50390319

Sample: EB_121224		Lab ID: 50390319010		Collected: 12/12/24 13:30		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 06:49		

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QUALITY CONTROL DATA

Project: L2473162

Pace Project No.: 50390319

QC Batch:	824469	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 Iodide by IC
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50390319001, 50390319002, 50390319003, 50390319004, 50390319005, 50390319007, 50390319008, 50390319009, 50390319010		

METHOD BLANK:	3773862	Matrix:	Water
Associated Lab Samples:	50390319001, 50390319002, 50390319003, 50390319004, 50390319005, 50390319007, 50390319008, 50390319009, 50390319010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	12/19/24 21:21	

LABORATORY CONTROL SAMPLE: 3773863						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773864					3773865							
Parameter	Units	50389957004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	5.2	5.1	104	101	80-120	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: L2473162
Pace Project No.: 50390319

QC Batch:	824470	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 Iodide by IC
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50390319006		

METHOD BLANK: 3773866 Matrix: Water
Associated Lab Samples: 50390319006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	12/19/24 20:57	

LABORATORY CONTROL SAMPLE: 3773867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773868 3773869

Parameter	Units	50390319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	5.0	5.0	101	101	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2473162
Pace Project No.: 50390319

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2473162
Pace Project No.: 50390319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50390319001	MW-11S	EPA 9056	824469		
50390319002	MW-11D	EPA 9056	824469		
50390319003	MW-1SR	EPA 9056	824469		
50390319004	MW-1DR2	EPA 9056	824469		
50390319005	MP-1	EPA 9056	824469		
50390319006	MP-1D	EPA 9056	824470		
50390319007	DUP_121224	EPA 9056	824469		
50390319008	MW-13S	EPA 9056	824469		
50390319009	MW-13D	EPA 9056	824469		
50390319010	EB_121224	EPA 9056	824469		

REPORT OF LABORATORY ANALYSIS

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WO#: 50390319



50390319

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Pace Job Number

L2473162

Page 1

Project Information

Regulatory Requirements/Report Limits

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To: west.subreports@pacelabs.com
Bill To: invoices@pacelabs.coupahost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

State/Federal Program:
Regulatory Criteria:

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2473162 Report to include Method and/or Regulatory required batch QC

Additional Comments: L4 report needed/REPORT TO MDL/needs L4 and EDD 265 NY EQUIS

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2473162-01	MW-11S	12-12-24 08:25	WATER	Iodide			1
	L2473162-02	MW-11D	12-12-24 08:42	WATER	Iodide			1
	L2473162-03	MW-1SR	12-12-24 09:50	WATER	Iodide			1
	L2473162-04	MW-1DR2	12-12-24 10:10	WATER	Iodide			1
	L2473162-05	MP-1	12-12-24 11:40	WATER	Iodide			1
	L2473162-06	MP-1D	12-12-24 12:05	WATER	Iodide		MS;MSD	3
	L2473162-07	DUP_121224	12-12-24 12:00	WATER	Iodide			1
	L2473162-08	MW-13S	12-12-24 14:00	WATER	Iodide			1
	L2473162-09	MW-13D	12-12-24 14:05	WATER	Iodide			1
	L2473162-10	EB_121224	12-12-24 13:30	Equipment Blank	Iodide			1
Relinquished By:					Date/Time:	Received By:	Date/Time:	
					12/16/24	FedEx	-	
					12/17/24 940	By [Signature] Pace	12/17/24 940	
Form No: AL_subcoc								



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

12/17/24 10:45 BS

1. The thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. Cooler Temperature(s):

1.2 / 1.1

(Initial/Corrected)

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Courier:

Circle One

Fed Ex

UPS

Client

Pace

Now/Jett

Other

4. Custody Seal on Cooler/Box Present:

Yes

No

(If yes) Seals Intact:

Yes

No

(leave blank if no seals were present)

5. Packing Material:

☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other _____6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. Was the PM notified of out of temp cooler?

☐ Yes☐ No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED? Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			X
Short Hold Time Analysis (48 hours or less)? Analysis:		X				
Time 5035A TC placed in Freezer or Short Holds To Lab			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	X		Trip Blank Present?		X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Custody Seals?:			X
Extra labels on Terracore Vials? (soils only)			Out Of Temp Instructions if applicable:			

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers

that are out of conformance **

COC Line Item	WGFL	WGKU	BG1U	MeOH (only) SBS DI R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AMBER GLASS						PLASTIC								OTHER			Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
Miscellaneous	
Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

Laboratory Report

Report prepared for:

Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581

Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:

Debbie S Robertson

Purchase Order:**For further assistance, contact:**

Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2473162 MW-11S		Received: 2024-12-17			
Lab ID: 2024-V-2852					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	214.93 mg	2025-01-03

Sample: L2473162 MW-11D		Received: 2024-12-17			
Lab ID: 2024-V-2853					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.42 mg	2025-01-03

Sample: L2473162 MW-1SR		Received: 2024-12-17			
Lab ID: 2024-V-2854					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.33 mg	2025-01-03

Sample: L2473162 MW-1DR2		Received: 2024-12-17			
Lab ID: 2024-V-2855					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.61 mg	2025-01-03

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Report Number: 158504



Report Date: 2025-01-06

Sample: L2473162 MP-1		Received: 2024-12-17			
Lab ID: 2024-V-2856					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.25 mg	2025-01-03

Sample: L2473162 MP-1D		Received: 2024-12-17			
Lab ID: 2024-V-2857					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.19 mg	2025-01-03

Sample: L2473162 MP-1D +MS		Received: 2024-12-17			
Lab ID: 2024-V-2858					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.46 mg	2025-01-03

Sample: L2473162 MP-1D +SD		Received: 2024-12-17			
Lab ID: 2024-V-2859					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.36 mg	2025-01-03

Sample: L2473162 DUP_121224		Received: 2024-12-17			
Lab ID: 2024-V-2860					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.65 mg	2025-01-03

Sample: L2473162 MW-13S		Received: 2024-12-17			
Lab ID: 2024-V-2861					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.42 mg	2025-01-03

Sample: L2473162 MW-13D					

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Report Number: 158504



Report Date: 2025-01-06

Lab ID: 2024-V-2862		Received: 2024-12-17			
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.22 mg	2025-01-03

Sample: L2473162 EB_121224		Received: 2024-12-17			
Lab ID: 2024-V-2863					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.44 mg	2025-01-03

Signatures:

Published By: Debbie.S.Robertson
 Created By: Debbie.S.Robertson

2025-01-06T20:43:39.097-05:00
 2025-01-06T20:43:16.693-05:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.

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ANALYTICAL REPORT

Lab Number:	L2473538
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Julia Michaels
Phone:	(631) 232-2600
Project Name:	CORAM MATERIALS
Project Number:	2232.0006Y005
Report Date:	01/27/25

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2473538-01	PZ-5	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 08:20	12/13/24
L2473538-02	MW-5D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 09:45	12/13/24
L2473538-03	SCDOH-DR	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 11:20	12/13/24
L2473538-04	MW-10S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 12:43	12/13/24
L2473538-05	MW-10D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 12:30	12/13/24
L2473538-06	EB_12132024	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	12/13/24 13:30	12/13/24
L2473538-07	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	12/10/24 00:00	12/13/24
L2473538-08	MW-10S_R	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 12:43	12/13/24
L2473538-09	EB_12132024_R	WATER	416 MILLER PLACE-YAPHANK ROAD	12/13/24 13:30	12/13/24

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Case Narrative (continued)

Report Revision

January 27, 2025: The subcontracted reports for Sulfide and Radiochemistry have been amended.

Report Submission

January 08, 2025: This final report includes the results of all requested analyses.

December 20, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The following analyses were subcontracted: Ammonium, Iodide, Sulfide, Radium 226, Radium 228, Thorium, and Uranium. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2473538-02: Headspace was noted in the sample container submitted for Carbonate Alkalinity - SM 2320 and Bicarbonate Alkalinity - SM 2320.

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:



Kelly O'Neill

Title: Technical Director/Representative

Date: 01/27/25

ORGANICS

VOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-01

Date Collected: 12/13/24 08:20

Client ID: PZ-5

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/19/24 15:48

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2473538-01**Date Collected:** 12/13/24 08:20**Client ID:** PZ-5**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.0	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-02
 Client ID: MW-5D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 09:45
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/19/24 16:12
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	0.75	J	ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.91		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.41	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-02

Date Collected: 12/13/24 09:45

Client ID: MW-5D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-03
 Client ID: SCDOH-DR
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 11:20
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/19/24 16:36
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-03

Date Collected: 12/13/24 11:20

Client ID: SCDOH-DR

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-04
 Client ID: MW-10S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 12:43
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/19/24 17:01
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2473538-04

Date Collected: 12/13/24 12:43

Client ID: MW-10S

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	1.9	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-05
 Client ID: MW-10D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 12:30
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/19/24 17:25
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-05

Date Collected: 12/13/24 12:30

Client ID: MW-10D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-07
 Client ID: TRIP BLANK
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/10/24 00:00
 Date Received: 12/13/24
 Field Prep: None

Sample Depth:

Matrix: Trip Blank (Aqueous)
 Analytical Method: 1,8260D
 Analytical Date: 12/19/24 17:50
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2473538-07**Date Collected:** 12/10/24 00:00**Client ID:** TRIP BLANK**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** None**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	1.9	J	ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/19/24 09:16
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG2011630-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/19/24 09:16
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG2011630-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	1.9	J	ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/19/24 09:16
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,07 Batch: WG2011630-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG2011630-3 WG2011630-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	110		99		70-130	11		20
Chloroform	110		97		70-130	13		20
Carbon tetrachloride	98		93		63-132	5		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	96		91		63-130	5		20
1,1,2-Trichloroethane	100		97		70-130	3		20
Tetrachloroethene	100		96		70-130	4		20
Chlorobenzene	110		100		75-130	10		20
Trichlorofluoromethane	98		88		62-150	11		20
1,2-Dichloroethane	100		96		70-130	4		20
1,1,1-Trichloroethane	100		92		67-130	8		20
Bromodichloromethane	100		97		67-130	3		20
trans-1,3-Dichloropropene	98		92		70-130	6		20
cis-1,3-Dichloropropene	100		98		70-130	2		20
Bromoform	92		91		54-136	1		20
1,1,2,2-Tetrachloroethane	100		99		67-130	1		20
Benzene	100		95		70-130	5		20
Toluene	100		99		70-130	1		20
Ethylbenzene	110		100		70-130	10		20
Chloromethane	120		100		64-130	18		20
Bromomethane	33	Q	27	Q	39-139	20		20
Vinyl chloride	90		76		55-140	17		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG2011630-3 WG2011630-4								
Chloroethane	75		66		55-138	13		20
1,1-Dichloroethene	110		96		61-145	14		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	95		91		70-130	4		20
1,2-Dichlorobenzene	110		100		70-130	10		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		100		70-130	10		20
Methyl tert butyl ether	98		97		63-130	1		20
p/m-Xylene	105		95		70-130	10		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	100		89		36-147	12		20
Acetone	110		100		58-148	10		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	120		120		63-138	0		20
4-Methyl-2-pentanone	85		82		59-130	4		20
2-Hexanone	97		97		57-130	0		20
Bromochloromethane	110		100		70-130	10		20
1,2-Dibromoethane	100		97		70-130	3		20
1,2-Dibromo-3-chloropropane	98		100		41-144	2		20
Isopropylbenzene	110		100		70-130	10		20
1,2,3-Trichlorobenzene	120		110		70-130	9		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,07 Batch: WG2011630-3 WG2011630-4								
1,2,4-Trichlorobenzene	120		100		70-130	18		20
Methyl Acetate	110		100		70-130	10		20
Cyclohexane	99		92		70-130	7		20
Freon-113	100		97		70-130	3		20
Methyl cyclohexane	92		85		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	101		105		70-130
Dibromofluoromethane	104		101		70-130

SEMIVOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-01
 Client ID: PZ-5
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 08:20
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/19/24 03:51
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2473538-01**Date Collected:** 12/13/24 08:20**Client ID:** PZ-5**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	44		10-120
4-Terphenyl-d14	57		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-01

Date Collected: 12/13/24 08:20

Client ID: PZ-5

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/18/24 13:29

Analytical Date: 12/19/24 09:14

Analyst: SBC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	0.08	J	ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-01

Date Collected: 12/13/24 08:20

Client ID: PZ-5

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	71		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-02
 Client ID: MW-5D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 09:45
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/19/24 04:15
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2473538-02**Date Collected:** 12/13/24 09:45**Client ID:** MW-5D**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	46		10-120
4-Terphenyl-d14	58		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-02
 Client ID: MW-5D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 09:45
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/19/24 09:30
 Analyst: SBC

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-02

Date Collected: 12/13/24 09:45

Client ID: MW-5D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	80		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-03
 Client ID: SCDOH-DR
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 11:20
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/19/24 04:39
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2473538-03**Date Collected:** 12/13/24 11:20**Client ID:** SCDOH-DR**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	61		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-03
 Client ID: SCDOH-DR
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 11:20
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/19/24 09:46
 Analyst: SBC

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	0.08	J	ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-03

Date Collected: 12/13/24 11:20

Client ID: SCDOH-DR

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	84		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-04
 Client ID: MW-10S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 12:43
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/19/24 05:02
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2473538-04**Date Collected:** 12/13/24 12:43**Client ID:** MW-10S**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	1.1	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	55		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-04

Date Collected: 12/13/24 12:43

Client ID: MW-10S

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/15/24 17:45

Analytical Date: 12/18/24 12:51

Analyst: GRS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.150	0.0339	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	39			15-110		

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-04
 Client ID: MW-10S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 12:43
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/19/24 10:18
 Analyst: SBC

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	0.08	J	ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-04

Date Collected: 12/13/24 12:43

Client ID: MW-10S

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	78		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-05
 Client ID: MW-10D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 12:30
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/19/24 05:26
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2473538-05**Date Collected:** 12/13/24 12:30**Client ID:** MW-10D**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	1.2	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	45		15-120
2,4,6-Tribromophenol	43		10-120
4-Terphenyl-d14	60		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-05
 Client ID: MW-10D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 12:30
 Date Received: 12/13/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/19/24 10:35
 Analyst: SBC

Extraction Method: EPA 3510C
 Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	0.08	J	ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-05

Date Collected: 12/13/24 12:30

Client ID: MW-10D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	71		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-06
 Client ID: EB_12132024
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/13/24 13:30
 Date Received: 12/13/24
 Field Prep: None

Sample Depth:

Matrix: Equipment Blank
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/18/24 13:20
 Analyst: GRS

Extraction Method: EPA 3510C
 Extraction Date: 12/15/24 17:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			37		15-110	

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/18/24 01:07
Analyst: GRS

Extraction Method: EPA 3510C
Extraction Date: 12/15/24 17:45

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 04,06 Batch: WG2009460-1					
1,4-Dioxane	ND		ug/l	0.150	0.0339

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	37		15-110

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/19/24 00:42
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG2010761-1					
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
Isophorone	ND		ug/l	5.0	0.86
Nitrobenzene	ND		ug/l	2.0	0.20
NDPA/DPA	ND		ug/l	2.0	0.92
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
Di-n-butylphthalate	ND		ug/l	5.0	0.96
Di-n-octylphthalate	ND		ug/l	5.0	2.3
Diethyl phthalate	ND		ug/l	5.0	0.76
Dimethyl phthalate	ND		ug/l	5.0	0.92
Biphenyl	ND		ug/l	2.0	0.20
4-Chloroaniline	ND		ug/l	5.0	0.47
2-Nitroaniline	ND		ug/l	5.0	1.0
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.4
Dibenzofuran	ND		ug/l	2.0	0.40
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24
Acetophenone	ND		ug/l	5.0	0.92
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Chlorophenol	ND		ug/l	2.0	0.65



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/19/24 00:42
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG2010761-1					
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
2-Nitrophenol	ND		ug/l	10	2.0
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrophenol	ND		ug/l	20	5.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
Phenol	ND		ug/l	5.0	0.35
2-Methylphenol	ND		ug/l	5.0	2.3
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Carbazole	ND		ug/l	2.0	0.31
Atrazine	ND		ug/l	10	1.0
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	1.2

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	55		41-149

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/19/24 08:57
Analyst: SLR

Extraction Method: EPA 3510C
Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG2010762-1					
Acenaphthene	ND		ug/l	0.10	0.02
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.03
Hexachlorobutadiene	ND		ug/l	0.50	0.02
Naphthalene	ND		ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.10	0.03
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03
Chrysene	ND		ug/l	0.10	0.03
Acenaphthylene	ND		ug/l	0.10	0.02
Anthracene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.02
Fluorene	ND		ug/l	0.10	0.03
Phenanthrene	ND		ug/l	0.10	0.04
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.03
Pentachlorophenol	ND		ug/l	0.80	0.06
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.02
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/19/24 08:57
Analyst: SLR

Extraction Method: EPA 3510C
Extraction Date: 12/18/24 13:29

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG2010762-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	77		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 04,06 Batch: WG2009460-2 WG2009460-3								
1,4-Dioxane	130		133		40-140	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	35		33		15-110

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2010761-2 WG2010761-3								
3,3'-Dichlorobenzidine	75		58		40-140	26		30
2,4-Dinitrotoluene	73		57		48-143	25		30
2,6-Dinitrotoluene	71		53		40-140	29		30
4-Chlorophenyl phenyl ether	63		50		40-140	23		30
4-Bromophenyl phenyl ether	65		55		40-140	17		30
Bis(2-chloroisopropyl)ether	39	Q	33	Q	40-140	17		30
Bis(2-chloroethoxy)methane	57		50		40-140	13		30
Hexachlorocyclopentadiene	30	Q	25	Q	40-140	18		30
Isophorone	57		49		40-140	15		30
Nitrobenzene	53		44		40-140	19		30
NDPA/DPA	70		52		40-140	30		30
n-Nitrosodi-n-propylamine	55		48		29-132	14		30
Bis(2-ethylhexyl)phthalate	73		56		40-140	26		30
Butyl benzyl phthalate	75		58		40-140	26		30
Di-n-butylphthalate	71		55		40-140	25		30
Di-n-octylphthalate	74		57		40-140	26		30
Diethyl phthalate	70		55		40-140	24		30
Dimethyl phthalate	70		55		40-140	24		30
Biphenyl	60		51		40-140	16		30
4-Chloroaniline	37	Q	29	Q	40-140	24		30
2-Nitroaniline	71		58		52-143	20		30
3-Nitroaniline	67		54		25-145	21		30
4-Nitroaniline	74		56		51-143	28		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2010761-2 WG2010761-3								
Dibenzofuran	61		50		40-140	20		30
1,2,4,5-Tetrachlorobenzene	55		47		2-134	16		30
Acetophenone	65		57		39-129	13		30
2,4,6-Trichlorophenol	61		51		30-130	18		30
p-Chloro-m-cresol	66		54		23-97	20		30
2-Chlorophenol	55		50		27-123	10		30
2,4-Dichlorophenol	60		53		30-130	12		30
2,4-Dimethylphenol	41		31		30-130	28		30
2-Nitrophenol	60		54		30-130	11		30
4-Nitrophenol	44		35		10-80	23		30
2,4-Dinitrophenol	99		98		20-130	1		30
4,6-Dinitro-o-cresol	77		64		20-164	18		30
Phenol	32		29		12-110	10		30
2-Methylphenol	55		46		30-130	18		30
3-Methylphenol/4-Methylphenol	53		44		30-130	19		30
2,4,5-Trichlorophenol	67		54		30-130	21		30
Carbazole	68		54	Q	55-144	23		30
Atrazine	71		52		40-140	31	Q	30
Benzaldehyde	66		55		40-140	18		30
Caprolactam	25		18		10-130	33	Q	30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2010761-2 WG2010761-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	41		37		21-120
Phenol-d6	32		27		10-120
Nitrobenzene-d5	57		47		23-120
2-Fluorobiphenyl	60		49		15-120
2,4,6-Tribromophenol	66		59		10-120
4-Terphenyl-d14	72		55		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG2010762-2 WG2010762-3								
Acenaphthene	66		62		40-140	6		40
2-Chloronaphthalene	57		55		40-140	4		40
Fluoranthene	88		74		40-140	17		40
Hexachlorobutadiene	46		45		40-140	2		40
Naphthalene	59		56		40-140	5		40
Benzo(a)anthracene	86		74		40-140	15		40
Benzo(a)pyrene	88		76		40-140	15		40
Benzo(b)fluoranthene	86		70		40-140	21		40
Benzo(k)fluoranthene	86		78		40-140	10		40
Chrysene	93		79		40-140	16		40
Acenaphthylene	65		61		40-140	6		40
Anthracene	82		70		40-140	16		40
Benzo(ghi)perylene	87		74		40-140	16		40
Fluorene	75		67		40-140	11		40
Phenanthrene	84		72		40-140	15		40
Dibenzo(a,h)anthracene	91		78		40-140	15		40
Indeno(1,2,3-cd)pyrene	91		78		40-140	15		40
Pyrene	88		75		40-140	16		40
2-Methylnaphthalene	57		55		40-140	4		40
Pentachlorophenol	84		77		40-140	9		40
Hexachlorobenzene	79		69		40-140	14		40
Hexachloroethane	50		49		40-140	2		40
Bis(2-chloroethyl)ether	63		60		40-140	5		40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG2010762-2 WG2010762-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		47		21-120
Phenol-d6	37		35		10-120
Nitrobenzene-d5	65		62		23-120
2-Fluorobiphenyl	63		59		15-120
2,4,6-Tribromophenol	84		74		10-120
4-Terphenyl-d14	83		70		41-149

METALS

Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-01

Date Collected: 12/13/24 08:20

Client ID: PZ-5

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Barium, Total	0.0308		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Calcium, Total	38.9		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Iron, Total	0.0221	J	mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Magnesium, Total	7.06		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 22:34	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Potassium, Total	1.51	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Sodium, Total	3.35		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF
Zinc, Total	0.0030	J	mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 20:30	EPA 3005A	19,200.7	JMF

Dissolved Metals - Mansfield Lab

Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0270		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-01

Date Collected: 12/13/24 08:20

Client ID: PZ-5

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	33.3		mg/l	0.100	0.0350	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Copper, Dissolved	0.0035	J	mg/l	0.0100	0.0022	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	7.61		mg/l	0.100	0.0153	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:48	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.44	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	3.48		mg/l	2.00	0.120	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0041	J	mg/l	0.0050	0.0021	1	12/17/24 21:20	12/20/24 11:27	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-02

Date Collected: 12/13/24 09:45

Client ID: MW-5D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.328		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Barium, Total	0.0548		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Calcium, Total	17.9		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Iron, Total	0.868		mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Magnesium, Total	7.14		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Manganese, Total	0.0198		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 22:38	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Potassium, Total	1.49	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Sodium, Total	19.9		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF
Zinc, Total	0.0027	J	mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 20:16	EPA 3005A	19,200.7	JMF

Dissolved Metals - Mansfield Lab

Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0474		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-02

Date Collected: 12/13/24 09:45

Client ID: MW-5D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	15.6		mg/l	0.100	0.0350	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	7.82		mg/l	0.100	0.0153	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 20:51	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.37	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	19.8		mg/l	2.00	0.120	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/20/24 11:32	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-03

Date Collected: 12/13/24 11:20

Client ID: SCDOH-DR

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Barium, Total	0.0194		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Calcium, Total	16.6		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Chromium, Total	0.0021	J	mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Iron, Total	0.183		mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Magnesium, Total	6.36		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Manganese, Total	0.111		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 22:41	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Potassium, Total	1.68	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Sodium, Total	22.6		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF
Zinc, Total	0.0077		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 20:23	EPA 3005A	19,200.7	JMF

Dissolved Metals - Mansfield Lab

Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0165		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-03

Date Collected: 12/13/24 11:20

Client ID: SCDOH-DR

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	14.7		mg/l	0.100	0.0350	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	7.01		mg/l	0.100	0.0153	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0019	J	mg/l	0.0100	0.0016	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 21:01	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.61	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	23.4		mg/l	2.00	0.120	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0026	J	mg/l	0.0050	0.0021	1	12/17/24 21:20	12/20/24 11:36	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-04

Date Collected: 12/13/24 12:43

Client ID: MW-10S

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Barium, Total	0.0361		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Calcium, Total	6.33		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Iron, Total	0.0117	J	mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Magnesium, Total	1.90		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Manganese, Total	0.0053	J	mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 23:52	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Potassium, Total	1.12	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Sodium, Total	4.81		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF
Zinc, Total	0.0096		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 22:09	EPA 3005A	19,200.7	JMF

Dissolved Metals - Mansfield Lab

Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0336		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-04

Date Collected: 12/13/24 12:43

Client ID: MW-10S

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	5.52		mg/l	0.100	0.0350	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Copper, Dissolved	0.0036	J	mg/l	0.0100	0.0022	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	1.89		mg/l	0.100	0.0153	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0047	J	mg/l	0.0100	0.0016	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 21:04	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.20	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	4.84		mg/l	2.00	0.120	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0116		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/20/24 11:40	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-05

Date Collected: 12/13/24 12:30

Client ID: MW-10D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0435	J	mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Barium, Total	0.0053	J	mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Calcium, Total	20.9		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Iron, Total	0.120		mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Magnesium, Total	2.63		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Manganese, Total	0.0247		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 23:55	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Potassium, Total	0.786	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Sodium, Total	6.50		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 22:15	EPA 3005A	19,200.7	JMF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0051	J	mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2473538-05

Date Collected: 12/13/24 12:30

Client ID: MW-10D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	19.7		mg/l	0.100	0.0350	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Iron, Dissolved	0.0629		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	2.82		mg/l	0.100	0.0153	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0229		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 21:07	EPA 245.1	3,245.1	MJR
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	0.810	J	mg/l	2.50	0.237	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	6.42		mg/l	2.00	0.120	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/20/24 11:45	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2010403-1										
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Barium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Calcium, Dissolved	ND		mg/l	0.100	0.0350	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Magnesium, Dissolved	ND		mg/l	0.100	0.0153	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Potassium, Dissolved	ND		mg/l	2.50	0.237	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Sodium, Dissolved	ND		mg/l	2.00	0.120	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/17/24 21:20	12/19/24 11:25	19,200.7	DMC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2010404-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/17/24 21:22	12/18/24 19:13	3,245.1	MJR



Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2010915-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Barium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Calcium, Total	0.0487	J	mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Iron, Total	ND		mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Magnesium, Total	ND		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Potassium, Total	ND		mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Sodium, Total	ND		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF

Prep Information

Digestion Method: EPA 3005A



Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2010924-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 21:40	3,245.1	MJR

Prep Information

Digestion Method: EPA 245.1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010403-2								
Aluminum, Dissolved	104		-		85-115	-		
Antimony, Dissolved	87		-		85-115	-		
Arsenic, Dissolved	98		-		85-115	-		
Barium, Dissolved	100		-		85-115	-		
Beryllium, Dissolved	102		-		85-115	-		
Cadmium, Dissolved	106		-		85-115	-		
Calcium, Dissolved	100		-		85-115	-		
Chromium, Dissolved	106		-		85-115	-		
Cobalt, Dissolved	108		-		85-115	-		
Copper, Dissolved	107		-		85-115	-		
Iron, Dissolved	103		-		85-115	-		
Lead, Dissolved	103		-		85-115	-		
Magnesium, Dissolved	108		-		85-115	-		
Manganese, Dissolved	101		-		85-115	-		
Nickel, Dissolved	105		-		85-115	-		
Potassium, Dissolved	106		-		85-115	-		
Selenium, Dissolved	98		-		85-115	-		
Silver, Dissolved	106		-		85-115	-		
Sodium, Dissolved	104		-		85-115	-		
Thallium, Dissolved	104		-		85-115	-		
Vanadium, Dissolved	108		-		85-115	-		

Lab Control Sample Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473538**Report Date:** 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010403-2					
Zinc, Dissolved	105	-	85-115	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010404-2					
Mercury, Dissolved	98	-	85-115	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010915-2					
Aluminum, Total	113	-	85-115	-	
Antimony, Total	108	-	85-115	-	
Arsenic, Total	102	-	85-115	-	
Barium, Total	112	-	85-115	-	
Beryllium, Total	109	-	85-115	-	
Cadmium, Total	105	-	85-115	-	
Calcium, Total	111	-	85-115	-	
Chromium, Total	100	-	85-115	-	
Cobalt, Total	110	-	85-115	-	
Copper, Total	110	-	85-115	-	
Iron, Total	105	-	85-115	-	
Lead, Total	109	-	85-115	-	
Magnesium, Total	101	-	85-115	-	
Manganese, Total	106	-	85-115	-	
Nickel, Total	103	-	85-115	-	
Potassium, Total	112	-	85-115	-	
Selenium, Total	109	-	85-115	-	
Silver, Total	105	-	85-115	-	
Sodium, Total	113	-	85-115	-	
Thallium, Total	107	-	85-115	-	
Vanadium, Total	102	-	85-115	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010915-2					
Zinc, Total	111	-	85-115	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010924-2					
Mercury, Total	95	-	85-115	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010403-3 WG2010403-4 QC Sample: L2473162-06 Client ID: MS Sample												
Aluminum, Dissolved	ND	2	2.16	108		2.12	106		75-125	2		20
Antimony, Dissolved	ND	0.5	0.464	93		0.462	92		75-125	0		20
Arsenic, Dissolved	ND	0.12	0.122	102		0.120	100		75-125	2		20
Barium, Dissolved	0.0142	2	2.05	102		2.00	99		75-125	2		20
Beryllium, Dissolved	ND	0.05	0.0529	106		0.0517	103		75-125	2		20
Cadmium, Dissolved	ND	0.053	0.0577	109		0.0568	107		75-125	2		20
Calcium, Dissolved	19.5	10	28.7	92		28.0	85		75-125	2		20
Chromium, Dissolved	ND	0.2	0.219	110		0.215	108		75-125	2		20
Cobalt, Dissolved	ND	0.5	0.547	109		0.536	107		75-125	2		20
Copper, Dissolved	ND	0.25	0.275	110		0.270	108		75-125	2		20
Iron, Dissolved	0.0102J	1	1.06	106		1.03	103		75-125	3		20
Lead, Dissolved	ND	0.53	0.562	106		0.551	104		75-125	2		20
Magnesium, Dissolved	10.3	10	20.6	103		20.2	99		75-125	2		20
Manganese, Dissolved	0.0019J	0.5	0.517	103		0.505	101		75-125	2		20
Nickel, Dissolved	ND	0.5	0.533	107		0.522	104		75-125	2		20
Potassium, Dissolved	1.50J	10	12.3	123		12.0	120		75-125	2		20
Selenium, Dissolved	ND	0.12	0.123	102		0.119	99		75-125	3		20
Silver, Dissolved	ND	0.05	0.0546	109		0.0534	107		75-125	2		20
Sodium, Dissolved	14.6	10	24.5	99		24.1	95		75-125	2		20
Thallium, Dissolved	ND	0.12	0.129	108		0.125	104		75-125	3		20
Vanadium, Dissolved	ND	0.5	0.556	111		0.545	109		75-125	2		20

Matrix Spike Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473538**Report Date:** 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010403-3 WG2010403-4 QC Sample: L2473162-06 Client ID: MS Sample									
Zinc, Dissolved	ND	0.5	0.545	109	0.532	106	75-125	2	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010403-7 QC Sample: L2473162-07 Client ID: MS Sample									
Aluminum, Dissolved	ND	2	2.14	107	-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.461	92	-	-	75-125	-	20
Arsenic, Dissolved	ND	0.12	0.121	101	-	-	75-125	-	20
Barium, Dissolved	0.0136	2	2.02	100	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.0526	105	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.0574	108	-	-	75-125	-	20
Calcium, Dissolved	18.7	10	28.5	98	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.216	108	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.541	108	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.274	110	-	-	75-125	-	20
Iron, Dissolved	0.0140J	1	1.05	105	-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.564	106	-	-	75-125	-	20
Magnesium, Dissolved	9.77	10	20.4	106	-	-	75-125	-	20
Manganese, Dissolved	0.0018J	0.5	0.513	103	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.527	105	-	-	75-125	-	20
Potassium, Dissolved	1.44J	10	12.3	123	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.123	102	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.0544	109	-	-	75-125	-	20
Sodium, Dissolved	14.0	10	24.2	102	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.129	108	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.551	110	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010403-7 QC Sample: L2473162-07 Client ID: MS Sample									
Zinc, Dissolved	0.0030J	0.5	0.537	107	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010404-3 WG2010404-4 QC Sample: L2473162-06 Client ID: MS Sample									
Mercury, Dissolved	0.00088	0.005	0.00572	97	0.00573	97	75-125	0	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010404-5 QC Sample: L2473162-08 Client ID: MS Sample									
Mercury, Dissolved	ND	0.005	0.00494	99	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010915-3		QC Sample: L2474304-01		Client ID: MS Sample		
Aluminum, Total	4.93	2	7.30	118	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.575	115	-	-	75-125	-	20
Arsenic, Total	0.005J	0.12	0.134	112	-	-	75-125	-	20
Barium, Total	0.044	2	2.38	117	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.0570	114	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.0551	104	-	-	75-125	-	20
Calcium, Total	40.8	10	50.7	99	-	-	75-125	-	20
Chromium, Total	0.007J	0.2	0.197	98	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.552	110	-	-	75-125	-	20
Copper, Total	0.018	0.25	0.286	107	-	-	75-125	-	20
Iron, Total	1.52	1	2.48	96	-	-	75-125	-	20
Lead, Total	0.029	0.53	0.606	109	-	-	75-125	-	20
Magnesium, Total	5.36	10	15.1	97	-	-	75-125	-	20
Manganese, Total	0.176	0.5	0.707	106	-	-	75-125	-	20
Nickel, Total	0.005J	0.5	0.520	104	-	-	75-125	-	20
Potassium, Total	12.4	10	24.1	117	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.141	118	-	-	75-125	-	20
Silver, Total	ND	0.05	0.0523	105	-	-	75-125	-	20
Sodium, Total	128	10	142	140	Q	-	75-125	-	20
Thallium, Total	ND	0.12	0.126	105	-	-	75-125	-	20
Vanadium, Total	0.0104	0.5	0.506	99	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473538**Report Date:** 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010915-3 QC Sample: L2474304-01 Client ID: MS Sample									
Zinc, Total	0.031	0.5	0.567	107	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010915-7		QC Sample: L2474304-02		Client ID: MS Sample		
Aluminum, Total	ND	2	2.25	112	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.542	108	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.128	107	-	-	75-125	-	20
Barium, Total	0.038	2	2.14	105	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.0520	104	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.0552	104	-	-	75-125	-	20
Calcium, Total	43.4	10	53.7	103	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.193	96	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.537	107	-	-	75-125	-	20
Copper, Total	ND	0.25	0.260	104	-	-	75-125	-	20
Iron, Total	0.016J	1	1.08	108	-	-	75-125	-	20
Lead, Total	ND	0.53	0.563	106	-	-	75-125	-	20
Magnesium, Total	5.57	10	15.3	97	-	-	75-125	-	20
Manganese, Total	0.102	0.5	0.597	99	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.504	101	-	-	75-125	-	20
Potassium, Total	7.92	10	18.7	108	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.133	111	-	-	75-125	-	20
Silver, Total	ND	0.05	0.0521	104	-	-	75-125	-	20
Sodium, Total	104	10	115	110	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.123	102	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.481	96	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010915-7		QC Sample: L2474304-02		Client ID: MS Sample		
Zinc, Total	0.019	0.5	0.557	108	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010924-3		QC Sample: L2474329-01		Client ID: MS Sample		
Mercury, Total	ND	0.005	0.00473	95	-	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010924-5		QC Sample: L2474329-02		Client ID: MS Sample		
Mercury, Total	ND	0.005	0.00464	93	-	-	70-130	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010403-8 QC Sample: L2473162-07 Client ID: DUP Sample						
Aluminum, Dissolved	ND	ND	mg/l	NC		20
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	ND	ND	mg/l	NC		20
Barium, Dissolved	0.0136	0.0135	mg/l	1		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	18.7	18.4	mg/l	2		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Cobalt, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Iron, Dissolved	0.0140J	0.0150J	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	9.77	9.55	mg/l	2		20
Manganese, Dissolved	0.0018J	0.0018J	mg/l	NC		20
Nickel, Dissolved	ND	ND	mg/l	NC		20
Potassium, Dissolved	1.44J	1.43J	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	14.0	13.8	mg/l	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010403-8 QC Sample: L2473162-07 Client ID: DUP Sample					
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.0030J	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010404-6 QC Sample: L2473162-08 Client ID: DUP Sample					
Mercury, Dissolved	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010915-4 QC Sample: L2474304-01 Client ID: DUP Sample					
Vanadium, Total	0.0104	0.0099J	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010915-8 QC Sample: L2474304-02 Client ID: DUP Sample					
Vanadium, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010924-4 QC Sample: L2474329-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010924-6 QC Sample: L2474329-02 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

**Lab Serial Dilution
Analysis**
Batch Quality Control

Lab Number: L2473538
Report Date: 01/27/25

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010403-10 QC Sample: L2473162-07 Client ID: DUP Sample						
Calcium, Dissolved	18.7	17.9	mg/l	4		20
Magnesium, Dissolved	9.77	9.03	mg/l	8		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010403-6 QC Sample: L2473162-06 Client ID: DUP Sample						
Calcium, Dissolved	19.5	18.1	mg/l	7		20
Magnesium, Dissolved	10.3	9.18	mg/l	11		20

INORGANICS & MISCELLANEOUS

Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2473538-01

Date Collected: 12/13/24 08:20

Client ID: PZ-5

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:47	121,2320B	MKT
Alkalinity, Bicarbonate	96.3		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:47	121,2320B	MKT
Solids, Total Dissolved	110		mg/l	13	4.0	1.3	-	12/19/24 02:46	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/18/24 20:48	121,2540D	REM
Chloride	2.0		mg/l	1.0	0.89	1	-	12/17/24 13:37	121,4500CL-E	JER
Fluoride	0.03	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/15/24 08:03	121,4500NO3-F	KAF
Nitrogen, Nitrate	1.14		mg/l	0.100	0.022	1	-	12/15/24 08:03	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	1.1		mg/l	0.10	0.046	1	-	12/15/24 08:03	121,4500NO3-F	KAF
Total Nitrogen	1.1		mg/l	0.30	0.30	1	-	12/20/24 10:15	107,-	MRM
Nitrogen, Total Kjeldahl	0.201	J	mg/l	0.300	0.066	1	12/18/24 17:00	12/19/24 20:36	4,351.1	AT
Phosphate, Total	0.046		mg/l	0.031	0.012	1	12/19/24 08:21	12/19/24 11:54	121,4500P-E(M)	EYA
Sulfate	14.		mg/l	10	1.4	1	12/19/24 15:40	12/19/24 15:40	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.033	J	mg/l	0.050	0.013	1	-	12/18/24 14:00	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2473538-02

Date Collected: 12/13/24 09:45

Client ID: MW-5D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:53	121,2320B	MKT
Alkalinity, Bicarbonate	28.5		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:53	121,2320B	MKT
Solids, Total Dissolved	140		mg/l	13	4.0	1.3	-	12/19/24 02:46	121,2540C	DEW
Solids, Total Suspended	14.		mg/l	5.0	NA	1	-	12/18/24 10:49	121,2540D	BAY
Chloride	26.		mg/l	1.0	0.89	1	-	12/17/24 13:39	121,4500CL-E	JER
Fluoride	0.03	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/15/24 08:34	121,4500NO3-F	KAF
Nitrogen, Nitrate	6.70		mg/l	0.100	0.022	1	-	12/15/24 08:34	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	6.7		mg/l	0.10	0.046	1	-	12/15/24 08:34	121,4500NO3-F	KAF
Total Nitrogen	6.7		mg/l	0.30	0.30	1	-	12/20/24 10:15	107,-	MRM
Nitrogen, Total Kjeldahl	0.089	J	mg/l	0.300	0.066	1	12/18/24 17:00	12/19/24 20:37	4,351.1	AT
Phosphate, Total	0.043		mg/l	0.031	0.012	1	12/19/24 08:21	12/19/24 11:57	121,4500P-E(M)	EYA
Sulfate	16.		mg/l	10	1.4	1	12/19/24 15:40	12/19/24 15:40	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.061		mg/l	0.050	0.013	1	-	12/18/24 14:12	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2473538-03

Date Collected: 12/13/24 11:20

Client ID: SCDOH-DR

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:55	121,2320B	MKT
Alkalinity, Bicarbonate	22.7		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:55	121,2320B	MKT
Solids, Total Dissolved	120		mg/l	13	4.0	1.3	-	12/19/24 02:46	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/18/24 14:01	121,2540D	BAY
Chloride	40.		mg/l	1.0	0.89	1	-	12/17/24 13:40	121,4500CL-E	JER
Fluoride	0.02	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/15/24 08:35	121,4500NO3-F	KAF
Nitrogen, Nitrate	3.47		mg/l	0.100	0.022	1	-	12/15/24 08:35	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	3.5		mg/l	0.10	0.046	1	-	12/15/24 08:35	121,4500NO3-F	KAF
Total Nitrogen	3.5		mg/l	0.30	0.30	1	-	12/20/24 10:15	107,-	MRM
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.066	1	12/18/24 17:00	12/19/24 20:38	4,351.1	AT
Phosphate, Total	0.018	J	mg/l	0.031	0.012	1	12/19/24 08:21	12/19/24 11:58	121,4500P-E(M)	EYA
Sulfate	14.		mg/l	10	1.4	1	12/19/24 15:40	12/19/24 15:40	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.045	J	mg/l	0.050	0.013	1	-	12/18/24 14:24	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2473538-04

Date Collected: 12/13/24 12:43

Client ID: MW-10S

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:57	121,2320B	MKT
Alkalinity, Bicarbonate	17.7		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:57	121,2320B	MKT
Solids, Total Dissolved	16.		mg/l	13	4.0	1.3	-	12/19/24 02:46	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/18/24 10:49	121,2540D	BAY
Chloride	5.9		mg/l	1.0	0.89	1	-	12/17/24 13:40	121,4500CL-E	JER
Fluoride	ND		mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/15/24 08:36	121,4500NO3-F	KAF
Nitrogen, Nitrate	0.826		mg/l	0.100	0.022	1	-	12/15/24 08:36	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	0.82		mg/l	0.10	0.046	1	-	12/15/24 08:36	121,4500NO3-F	KAF
Total Nitrogen	0.82		mg/l	0.30	0.30	1	-	12/20/24 10:15	107,-	MRM
Nitrogen, Total Kjeldahl	0.125	J	mg/l	0.300	0.066	1	12/18/24 17:00	12/19/24 20:39	4,351.1	AT
Phosphate, Total	0.034		mg/l	0.031	0.012	1	12/19/24 08:21	12/19/24 11:59	121,4500P-E(M)	EYA
Sulfate	2.3	J	mg/l	10	1.4	1	12/19/24 15:40	12/19/24 15:40	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.031	J	mg/l	0.050	0.013	1	-	12/18/24 14:36	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2473538-05

Date Collected: 12/13/24 12:30

Client ID: MW-10D

Date Received: 12/13/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:58	121,2320B	MKT
Alkalinity, Bicarbonate	41.8		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:58	121,2320B	MKT
Solids, Total Dissolved	84.		mg/l	13	4.0	1.3	-	12/19/24 02:46	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/18/24 10:49	121,2540D	BAY
Chloride	6.5		mg/l	1.0	0.89	1	-	12/17/24 13:41	121,4500CL-E	JER
Fluoride	0.06	J	mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/15/24 08:38	121,4500NO3-F	KAF
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	12/15/24 08:38	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	12/15/24 08:38	121,4500NO3-F	KAF
Total Nitrogen	ND		mg/l	0.30	0.30	1	-	12/20/24 10:15	107,-	MRM
Nitrogen, Total Kjeldahl	0.153	J	mg/l	0.300	0.066	1	12/18/24 17:00	12/19/24 20:39	4,351.1	AT
Phosphate, Total	0.058		mg/l	0.031	0.012	1	12/19/24 08:21	12/19/24 12:00	121,4500P-E(M)	EYA
Sulfate	19.		mg/l	10	1.4	1	12/19/24 15:40	12/19/24 15:40	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.046	J	mg/l	0.050	0.013	1	-	12/18/24 14:48	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2473538

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2009320-1										
Fluoride	ND		mg/l	0.20	0.01	1	12/15/24 03:33	12/15/24 08:27	121,4500F-BC	DTH
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2009328-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	12/15/24 08:21	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2009329-1										
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/15/24 08:18	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2009330-1										
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	12/15/24 08:21	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2010248-1										
Chloride	ND		mg/l	1.0	0.89	1	-	12/17/24 13:26	121,4500CL-E	JER
General Chemistry - Westborough Lab for sample(s): 02,04-05 Batch: WG2010721-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/18/24 10:49	121,2540D	BAY
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2010837-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	12/18/24 17:00	12/19/24 20:33	4,351.1	AT
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG2010839-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/18/24 14:01	121,2540D	BAY
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05 Batch: WG2010901-1										
Bromide	ND		mg/l	0.050	0.013	1	-	12/18/24 09:58	44,300.0	CVN
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2011007-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/18/24 20:48	121,2540D	REM
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2011067-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/19/24 02:46	121,2540C	DEW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2011137-1										
Phosphate, Total	ND		mg/l	0.031	0.012	1	12/19/24 08:21	12/19/24 11:51	121,4500P-E(M)	EYA
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2011253-1										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:15	121,2320B	MKT
Alkalinity, Bicarbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:15	121,2320B	MKT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2011338-1										
Sulfate	1.9	J	mg/l	10	1.4	1	12/19/24 15:40	12/19/24 15:40	121,4500SO4-E	MRW



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2009320-2								
Fluoride	90		-		78-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2009328-2								
Nitrogen, Nitrate/Nitrite	98		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2009329-2								
Nitrogen, Nitrite	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2009330-2								
Nitrogen, Nitrate	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2010248-2								
Chloride	90		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02,04-05 Batch: WG2010721-2								
Solids, Total Suspended	94		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2010837-2								
Nitrogen, Total Kjeldahl	102		-		78-122	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG2010839-2					
Solids, Total Suspended	101	-	80-120	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 Batch: WG2010901-2					
Bromide	96	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2011007-2					
Solids, Total Suspended	92	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2011067-2					
Solids, Total Dissolved	106	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2011137-2					
Phosphate, Total	96	-	84-118	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2011338-2					
Sulfate	100	-	90-110	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2009320-4			QC Sample: L2472333-04		Client ID: MS Sample			
Fluoride	0.08J	1	1.0	103		-	-		69-124	-		13
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2009328-4			QC Sample: L2473538-01		Client ID: PZ-5			
Nitrogen, Nitrate/Nitrite	1.1	4	4.8	92		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2009329-4			QC Sample: L2473538-01		Client ID: PZ-5			
Nitrogen, Nitrite	ND	4	4.08	102		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2009330-4			QC Sample: L2473538-01		Client ID: PZ-5			
Nitrogen, Nitrate	1.14	4	4.77	91		-	-		83-113	-		17
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2010248-4			QC Sample: L2473538-01		Client ID: PZ-5			
Chloride	2.0	20	20	90		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2010837-4			QC Sample: L2474285-01		Client ID: MS Sample			
Nitrogen, Total Kjeldahl	3.40	8	12.5	114	Q	-	-		77-111	-		24
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2010901-3			QC Sample: L2473893-01		Client ID: MS Sample			
Bromide	0.031J	0.4	0.335	84	Q	-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2011137-4			QC Sample: L2473538-01		Client ID: PZ-5			
Phosphate, Total	0.046	1.53	1.68	107		-	-		80-120	-		15
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2011338-4			QC Sample: L2473538-01		Client ID: PZ-5			
Sulfate	14.	40	54	100		-	-		55-147	-		14

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2009320-3	QC Sample: L2472333-04	Client ID: DUP Sample		
Fluoride	0.08J	0.08J	mg/l	NC		13
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2009328-3	QC Sample: L2473538-01	Client ID: PZ-5		
Nitrogen, Nitrate/Nitrite	1.1	1.1	mg/l	0		20
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2009329-3	QC Sample: L2473538-01	Client ID: PZ-5		
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2009330-3	QC Sample: L2473538-01	Client ID: PZ-5		
Nitrogen, Nitrate	1.14	1.13	mg/l	1		17
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2010248-3	QC Sample: L2473538-01	Client ID: PZ-5		
Chloride	2.0	2.0	mg/l	0		7
General Chemistry - Westborough Lab	Associated sample(s): 02,04-05	QC Batch ID: WG2010721-3	QC Sample: L2473387-01	Client ID: DUP Sample		
Solids, Total Suspended	1100	1200	mg/l	9		32
General Chemistry - Westborough Lab	Associated sample(s): 02,04-05	QC Batch ID: WG2010721-4	QC Sample: L2473789-01	Client ID: DUP Sample		
Solids, Total Suspended	110	100	mg/l	10		32
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG2010837-3	QC Sample: L2474285-01	Client ID: DUP Sample		
Nitrogen, Total Kjeldahl	3.40	3.42	mg/l	1		24
General Chemistry - Westborough Lab	Associated sample(s): 03	QC Batch ID: WG2010839-3	QC Sample: L2473789-04	Client ID: DUP Sample		
Solids, Total Suspended	80.	130	mg/l	48	Q	32

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473538

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG2010839-4 QC Sample: L2473789-05 Client ID: DUP Sample					
Solids, Total Suspended	130	160	mg/l	21	32
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2010901-4 QC Sample: L2473893-01 Client ID: DUP Sample					
Bromide	0.031J	0.031J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2011007-3 QC Sample: L2473566-01 Client ID: DUP Sample					
Solids, Total Suspended	42.	45	mg/l	7	32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2011007-4 QC Sample: L2473789-03 Client ID: DUP Sample					
Solids, Total Suspended	140	140	mg/l	0	32
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2011067-3 QC Sample: L2472986-01 Client ID: DUP Sample					
Solids, Total Dissolved	68.	75	mg/l	10	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2011067-4 QC Sample: L2472986-02 Client ID: DUP Sample					
Solids, Total Dissolved	180	180	mg/l	0	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2011137-3 QC Sample: L2473538-01 Client ID: PZ-5					
Phosphate, Total	0.046	0.052	mg/l	13	15
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2011253-2 QC Sample: L2473538-01 Client ID: PZ-5					
Alkalinity, Carbonate	ND	ND	mg CaCO3/L	NC	10
Alkalinity, Bicarbonate	96.3	98.6	mg CaCO3/L	2	9

Lab Duplicate Analysis
*Batch Quality Control***Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2473538**Report Date:** 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2011338-3 QC Sample: L2473538-01 Client ID: PZ-5					
Sulfate	14.	14	mg/l	0	14

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473538-01A	Vial HCl preserved	C	NA		4.1	Y	Absent		NYTCL-8260(14)
L2473538-01B	Vial HCl preserved	C	NA		4.1	Y	Absent		NYTCL-8260(14)
L2473538-01C	Vial HCl preserved	C	NA		4.1	Y	Absent		NYTCL-8260(14)
L2473538-01D	Amber 100ml unpreserved	C	7	7	4.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473538-01E	Amber 100ml unpreserved	C	7	7	4.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473538-01H	Plastic 250ml HNO3 preserved	C	<2	<2	4.1	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),K-RI(180),SE-RI(180),MG-RI(180),AL-RI(180),MN-RI(180),TL-RI(180),CU-RI(180),CO-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),HG-R(28),AG-RI(180),CR-RI(180),CD-RI(180),PB-RI(180),NA-RI(180),AS-RI(180),V-RI(180)
L2473538-01J	Plastic 250ml HNO3 preserved	C	<2	<2	4.1	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),ZN-UI(180),CA-UI(180),AG-UI(180),CO-UI(180),K-UI(180),FE-UI(180),SE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),BE-UI(180),CR-UI(180),MN-UI(180),NA-UI(180),AL-UI(180),AS-UI(180),PB-UI(180),V-UI(180),CU-UI(180),TL-UI(180)
L2473538-01K	Plastic 250ml unpreserved/No Headspace	C	NA		4.1	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473538-01L	Plastic 250ml unpreserved	C	7	7	4.1	Y	Absent		SUB-IODIDE(7)
L2473538-01M	Plastic 500ml H2SO4 preserved	C	<2	<2	4.1	Y	Absent		SUB-AMMONIUM(28)

Project Name: CORAM MATERIALS
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473538-01N	Plastic 950ml unpreserved	C	7	7	4.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2473538-01O	Plastic 950ml unpreserved	C	7	7	4.1	Y	Absent		TSS-2540(7)
L2473538-01P	Amber 950ml H2SO4 preserved	C	<2	<2	4.1	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473538-02A	Vial HCl preserved	C	NA		4.1	Y	Absent		NYTCL-8260(14)
L2473538-02B	Vial HCl preserved	C	NA		4.1	Y	Absent		NYTCL-8260(14)
L2473538-02C	Vial HCl preserved	C	NA		4.1	Y	Absent		NYTCL-8260(14)
L2473538-02D	Amber 100ml unpreserved	C	7	7	4.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473538-02E	Amber 100ml unpreserved	C	7	7	4.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473538-02H	Plastic 250ml HNO3 preserved	C	<2	<2	4.1	Y	Absent		ZN-RI(180),FE-RI(180),BE-RI(180),K-RI(180),SE-RI(180),AL-RI(180),MG-RI(180),MN-RI(180),TL-RI(180),CU-RI(180),CO-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),AG-RI(180),CR-RI(180),HG-R(28),NI-RI(180),AS-RI(180),V-RI(180),CD-RI(180),PB-RI(180),NA-RI(180)
L2473538-02J	Plastic 250ml HNO3 preserved	C	<2	<2	4.1	Y	Absent		SB-UI(180),NI-UI(180),BA-UI(180),AG-UI(180),CA-UI(180),ZN-UI(180),K-UI(180),CO-UI(180),MG-UI(180),FE-UI(180),SE-UI(180),HG-U(28),CD-UI(180),MN-UI(180),BE-UI(180),CR-UI(180),AL-UI(180),NA-UI(180),CU-UI(180),PB-UI(180),TL-UI(180),V-UI(180),AS-UI(180)
L2473538-02K	Plastic 250ml unpreserved/No Headspace	C	NA		4.1	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473538-02L	Plastic 250ml unpreserved	C	7	7	4.1	Y	Absent		SUB-IODIDE(7)
L2473538-02M	Plastic 500ml H2SO4 preserved	C	<2	<2	4.1	Y	Absent		SUB-AMMONIUM(28)
L2473538-02N	Plastic 950ml unpreserved	C	7	7	4.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2473538-02O	Plastic 950ml unpreserved	C	7	7	4.1	Y	Absent		TSS-2540(7)
L2473538-02P	Amber 950ml H2SO4 preserved	C	<2	<2	4.1	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473538-03A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473538-03B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2473538-03C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2473538-03D	Amber 100ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473538-03E	Amber 100ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473538-03H	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),SE-RI(180),K-RI(180),MG-RI(180),AL-RI(180),TL-RI(180),MN-RI(180),CU-RI(180),CO-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),HG-R(28),AG-RI(180),CR-RI(180),NI-RI(180),AS-RI(180),CD-RI(180),V-RI(180),PB-RI(180),NA-RI(180)
L2473538-03J	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		SB-UI(180),BA-UI(180),NI-UI(180),ZN-UI(180),AG-UI(180),CA-UI(180),K-UI(180),CO-UI(180),SE-UI(180),MG-UI(180),FE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),NA-UI(180),BE-UI(180),MN-UI(180),CR-UI(180),TL-UI(180),CU-UI(180),AS-UI(180),PB-UI(180),V-UI(180)
L2473538-03K	Plastic 250ml unpreserved/No Headspace	A	NA		2.1	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473538-03L	Plastic 250ml unpreserved	A	7	7	2.1	Y	Absent		SUB-IODIDE(7)
L2473538-03M	Plastic 500ml H2SO4 preserved	A	<2	<2	2.1	Y	Absent		SUB-AMMONIUM(28)
L2473538-03N	Plastic 950ml unpreserved	A	7	7	2.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2473538-03O	Plastic 950ml unpreserved	A	7	7	2.1	Y	Absent		TSS-2540(7)
L2473538-03P	Amber 950ml H2SO4 preserved	A	<2	<2	2.1	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473538-04A	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2473538-04B	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2473538-04C	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2473538-04D	Amber 100ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473538-04E	Amber 100ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Serial_No: 01272513:25
Lab Number: L2473538
Report Date: 01/27/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473538-04F	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2473538-04G	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2473538-04H	Plastic 250ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),K-RI(180),SE-RI(180),MG-RI(180),AL-RI(180),TL-RI(180),MN-RI(180),SB-RI(180),CU-RI(180),CO-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),CR-RI(180),HG-R(28),AG-RI(180),AS-RI(180),CD-RI(180),V-RI(180),NA-RI(180),PB-RI(180)
L2473538-04J	Plastic 250ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		BA-UI(180),NI-UI(180),SB-UI(180),ZN-UI(180),AG-UI(180),CA-UI(180),K-UI(180),CO-UI(180),SE-UI(180),FE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),BE-UI(180),NA-UI(180),CR-UI(180),MN-UI(180),AL-UI(180),PB-UI(180),TL-UI(180),V-UI(180),CU-UI(180),AS-UI(180)
L2473538-04K	Plastic 250ml unpreserved/No Headspace	B	NA		3.4	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473538-04L	Plastic 250ml unpreserved	B	7	7	3.4	Y	Absent		SUB-IODIDE(7)
L2473538-04M	Plastic 500ml H2SO4 preserved	B	<2	<2	3.4	Y	Absent		SUB-AMMONIUM(28)
L2473538-04N	Plastic 950ml unpreserved	B	7	7	3.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2473538-04O	Plastic 950ml unpreserved	B	7	7	3.4	Y	Absent		TSS-2540(7)
L2473538-04P	Amber 950ml H2SO4 preserved	B	<2	<2	3.4	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473538-05A	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2473538-05B	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2473538-05C	Vial HCl preserved	A	NA		2.1	Y	Absent		NYTCL-8260(14)
L2473538-05D	Amber 100ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2473538-05E	Amber 100ml unpreserved	A	7	7	2.1	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473538-05H	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),SE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),CA-RI(180),BA-RI(180),AG-RI(180),HG-R(28),CR-RI(180),NI-RI(180),AS-RI(180),CD-RI(180),PB-RI(180),V-RI(180),NA-RI(180)
L2473538-05J	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		BA-UI(180),NI-UI(180),SB-UI(180),AG-UI(180),CA-UI(180),ZN-UI(180),CO-UI(180),K-UI(180),SE-UI(180),FE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),MN-UI(180),NA-UI(180),AL-UI(180),BE-UI(180),CR-UI(180),CU-UI(180),PB-UI(180),V-UI(180),AS-UI(180),TL-UI(180)
L2473538-05K	Plastic 250ml unpreserved/No Headspace	A	NA		2.1	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2473538-05L	Plastic 250ml unpreserved	A	7	7	2.1	Y	Absent		SUB-IODIDE(7)
L2473538-05M	Plastic 500ml H2SO4 preserved	A	<2	<2	2.1	Y	Absent		SUB-AMMONIUM(28)
L2473538-05N	Plastic 950ml unpreserved	A	7	7	2.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2473538-05O	Plastic 950ml unpreserved	A	7	7	2.1	Y	Absent		TSS-2540(7)
L2473538-05P	Amber 950ml H2SO4 preserved	A	<2	<2	2.1	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2473538-06F	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2473538-06G	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2473538-07A	Vial HCl preserved	C	NA		4.1	Y	Absent		NYTCL-8260(14)
L2473538-07B	Vial HCl preserved	C	NA		4.1	Y	Absent		NYTCL-8260(14)

Container Comments

L2473538-04P

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

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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: DU Report with 'J' Qualifiers



Project Name: CORAM MATERIALS
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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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473538
Report Date: 01/27/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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: CORAM MATERIALS**Lab Number:** L2473538**Project Number:** 2232.0006Y005**Report Date:** 01/27/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 107 Calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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Published Date: 01/24/2025

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Certification Information

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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**

Pace Analytical Services LLCID No.: **17873**Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: Certificate/Approval Program Summary

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Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 3		Date Rec'd in Lab <u>12/14/24</u>		ALPHA Job # <u>12473538</u>											
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>CORAM MATERIALS</u> Project Location: <u>416 Miller Place-Yaphank Road</u> Project #: <u>2232.0006Y005</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #									
Client Information Client: <u>ROUX Env.Eng. &Geology, DPC</u> Address: <u>209 Shafter Street</u> <u>Islandia, NY 11749-5074</u> Phone: <u>631-232-2600</u> Fax: <u></u> Email: <u>jmichaels@rouxinc.com</u>		Project Manager: <u>Julia Michaels</u> ALPHAQuote #: <u>28577</u> Turn-Around Time Start ☒ Rush (only if pre apprd ☐ Due Date: <u></u> # of Days: <u></u>		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:													
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:						ANALYSIS		Sample Filtration ☒ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)											
Please specify Metals or TAL.						NYTCL-8260 NYTCL-8270S/IM-RVT TAL600/TAL-2007S TDS-2540/TSS-2540 CL-4500/Er-300 NO3-4500 NO2-4500 OTALNITROGEN/ikn 351		Sample Specific Comments											
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials														
		Date	Time																
<u>13538-01</u>	<u>PZ-5</u>	<u>12/13/24</u>	<u>820</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>						
<u>-02</u>	<u>MW-5D</u>	<u>12/13/24</u>	<u>945</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>						
<u>-03</u>	<u>SCDOH-DR</u>	<u>12/13/24</u>	<u>1120</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>						
<u>-04</u>	<u>MW-10S</u>	<u>12/13/24</u>	<u>1243</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>16</u>						
<u>-05</u>	<u>MW-10D</u>	<u>12/13/24</u>	<u>1230</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>						
<u>-06</u>	<u>EB-12132024</u>	<u>12/13/24</u>	<u>1330</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>2</u>						
<u>-07</u>	<u>TRIP BLANK</u>	<u>12/10/24</u>	<u>LAB</u>	<u>AQ</u>	<u>ML</u>	<u>X</u>							<u>2</u>						
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other						Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle						Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		V A P A P A A A B A C A A D D D		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS & CONDITIONS</u> .	
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time											
		<u>[Signature]</u>		<u>12/13/24 1440</u>		<u>[Signature]</u>		<u>12/13 15:10</u>											
		<u>[Signature]</u>		<u>12/13 17:30</u>		<u>[Signature]</u>		<u>12/13/24 1705</u>											
		<u>[Signature]</u>		<u>12/13/24</u>		<u>[Signature]</u>		<u>12/13/24 2223</u>											
		<u>[Signature]</u>		<u>12/14/24 0410</u>		<u>[Signature]</u>		<u>12/14 0110</u>											

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 3		Date Rec'd in Lab <u>12/14/24</u>		ALPHA Job # <u>12473538</u>									
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>CORAM MATERIALS</u> Project Location: <u>416 Miller Place Yaphank Rd</u> Project #: <u>2232.00006</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQuS (1 File) ☐ EQuS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #							
Client Information Client: <u>ROUX Env.Eng.&Geology, DPC</u> Address: <u>209 Shafter Street</u> <u>Islandia, NY 11749-5074</u> Phone: <u>631-232-2600</u> Fax: <u></u> Email: <u>jmichaels@rouxinc.com</u>		Project Manager: <u>Julia Michaels</u> ALPHAQuote #: <u>28577</u> Turn-Around Time Standard ☒ Rush (only if pre approved) ☐		Due Date: <u></u> # of Days: <u></u>		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:									
These samples have been previously analyzed by Alpha ☐						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)									
Other project specific requirements/comments: SUB IODIDE send from WB to PACE INDY/ SUB AMMONIUM send from WB to Galbraith Laboratories Please specify Metals or TAL.						SO4-4500 ALK-HCO3-2320 ALK-CO3-2320 F-4500 TPO4-4500 SUB-IODIDE SUB-AMMONIUM A2-1,4-DIOXANE-SIM		Sample Specific Comments									
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials												
<u>13538-08</u>	<u>PZ-5</u>	<u>12/13/24</u>	<u>820</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>				
<u>-02</u>	<u>MW-5D</u>	<u>12/13/24</u>	<u>945</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>				
<u>-03</u>	<u>SCDOH-DR</u>	<u>12/13/24</u>	<u>1120</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>				
<u>-04</u>	<u>MW-10S</u>	<u>12/13/24</u>	<u>1243</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>16</u>				
<u>-05</u>	<u>MW-10D</u>	<u>12/13/24</u>	<u>1230</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>				
<u>-06</u>	<u>FB-12/13/2024</u>	<u>12/13/24</u>	<u>1330</u>	<u>AQ</u>	<u>AT</u>							<u>X</u>	<u>2</u>				
<u>-07</u>	<u>TRIP BLANK</u>	<u>12/13/24</u>	<u>LAB</u>	<u>AQ</u>	<u>MC</u>								<u>2</u>				
Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 K/E = Zn Ac/NaOH O = Other						Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle						Westboro: Certification No: MA935 Mansfield: Certification No: MA015					
Container Type						Preservative						Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS & CONDITIONS.</u>					
Relinquished By:		Date/Time		Received By:		Date/Time											
<u>AT</u>		<u>12/13/24 1440</u>		<u>AT</u>		<u>12/13 15:00</u>											
<u>AT</u>		<u>12/13 17:30</u>		<u>AT</u>		<u>12/13/24 1903</u>											
<u>AT</u>		<u>12/13/24</u>		<u>AT</u>		<u>12/14/24 0110</u>											

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 3 of 3	Date Rec'd in Lab 12/14/24	ALPHA Job # 12473538		
		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place Yaphank NY Project #: 2232.0006Y005 (Use Project name as Project #) ☐	Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other	Billing Information ☐ Same as Client Info PO #		
		Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com	Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Start ☒ Rush (only if pre approved) ☐ Due Date: # of Days:	Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Sub SULFIDE courier to PACE MELVILLE Please specify Metals or TAL.		ANALYSIS SUB-SULFIDE		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	ANALYSIS SUB-SULFIDE	Sample Specific Comments
73538-08	P2-5	12/13 8:10	AQ	JC	X	14
-02	MW-5D	12/13 9:45	AQ	JC	X	14
-03	SCD04-DR	12/13 11:20	AQ	AT	X	14
-04	MW-10S	12/13 12:43	AQ	AT	X	16
-05	MW-10D	12/13 12:50	AQ	JC	X	14
-06	FB-12132024	12/13 13:30	AQ	AT		2
-07	TRIP BLANK	12/13/24 LAB	AQ	MC		2
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P Preservative C
Relinquished By: <i>[Signature]</i> Date/Time: 12/13/24 14:40		Received By: <i>[Signature]</i> Date/Time: 12/13/24 15:03		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.		
Relinquished By: <i>[Signature]</i> Date/Time: 12/13/24 17:30		Received By: <i>[Signature]</i> Date/Time: 12/13/24 19:03		Relinquished By: <i>[Signature]</i> Date/Time: 12/14/24 01:10		

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Mahwah, NJ 07430: 35 Whitney Rd, Suite 8
 Albany, NY 12205: 14 Walker Way
 Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

of 1

Date Rec'd
In Lab

12/14/20

ALPHA Job #

ALPHA Job #
12473538

Email: jmichaels@rouxinc.com

of Days:

ge

☐ Other:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



January 24, 2025

Jennifer Byrnes

,

RE: Project: L2473538
Pace Project No.: 70327669

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2473538
Pace Project No.: 70327669

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Texas Certification #: T104704582
Florida Certification #: E871198

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SAMPLE SUMMARY

Project: L2473538

Pace Project No.: 70327669

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70327669001	PZ-5	Water	12/13/24 08:20	12/14/24 07:40
70327669002	MW-5D	Water	12/13/24 09:45	12/14/24 07:40
70327669003	SCDOH-DR	Water	12/13/24 11:20	12/14/24 07:40
70327669004	MW-10S	Water	12/13/24 12:43	12/14/24 07:40
70327669005	MW-10D	Water	12/13/24 12:30	12/14/24 07:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L2473538
Pace Project No.: 70327669

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70327669001	PZ-5	SM22 4500-S2 F	JWM	1
70327669002	MW-5D	SM22 4500-S2 F	JWM	1
70327669003	SCDOH-DR	SM22 4500-S2 F	JWM	1
70327669004	MW-10S	SM22 4500-S2 F	JWM	1
70327669005	MW-10D	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: L2473538
Pace Project No.: 70327669

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: January 24, 2025

General Information:

5 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 375794

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70327757006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1969285)
 - Sulfide
- MSD (Lab ID: 1969286)
 - Sulfide

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473538

Pace Project No.: 70327669

Sample: PZ-5		Lab ID: 70327669001		Collected: 12/13/24 08:20		Received: 12/14/24 07:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:18		

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ANALYTICAL RESULTS

Project: L2473538

Pace Project No.: 70327669

Sample: MW-5D		Lab ID: 70327669002		Collected: 12/13/24 09:45		Received: 12/14/24 07:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:20		

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ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 70327669

Sample: SCDOH-DR		Lab ID: 70327669003		Collected: 12/13/24 11:20		Received: 12/14/24 07:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:23		

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ANALYTICAL RESULTS

Project: L2473538

Pace Project No.: 70327669

Sample: MW-10S		Lab ID: 70327669004		Collected: 12/13/24 12:43		Received: 12/14/24 07:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:26		

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ANALYTICAL RESULTS

Project: L2473538

Pace Project No.: 70327669

Sample: MW-10D		Lab ID: 70327669005		Collected: 12/13/24 12:30		Received: 12/14/24 07:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/18/24 15:29		

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QUALITY CONTROL DATA

Project: L2473538

Pace Project No.: 70327669

QC Batch: 375794

Analysis Method: SM22 4500-S2 F

QC Batch Method: SM22 4500-S2 F

Analysis Description: 4500S2F W Sulfide Iodometric

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70327669001, 70327669002, 70327669003, 70327669004, 70327669005

METHOD BLANK: 1969283

Matrix: Water

Associated Lab Samples: 70327669001, 70327669002, 70327669003, 70327669004, 70327669005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	12/18/24 14:34	

LABORATORY CONTROL SAMPLE: 1969284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	14	13.6	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1969285 1969286

Parameter	Units	70327757006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<0.20	2.8	2.8	1.7J	1.7J	60	60	70-130		20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2473538
Pace Project No.: 70327669

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2473538

Pace Project No.: 70327669

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70327669001	PZ-5	SM22 4500-S2 F	375794		
70327669002	MW-5D	SM22 4500-S2 F	375794		
70327669003	SCDOH-DR	SM22 4500-S2 F	375794		
70327669004	MW-10S	SM22 4500-S2 F	375794		
70327669005	MW-10D	SM22 4500-S2 F	375794		

REPORT OF LABORATORY ANALYSIS

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WO#: 70327669



70327669

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2473538

Page 1

Client Information				Project Information		Regulatory Requirements/Report Limits		
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupanhost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com				Project Location: NY Project Manager: Jennifer Byrnes Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables		State/Federal Program: Regulatory Criteria: Report to MDL		
Project Specific Requirements and/or Report Requirements								
Reference following Pace Job Number on final report/deliverables: L2473538 Report to include Method and/or Regulatory required batch QC								
Additional Comments: aSPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
L2473538-01	PZ-5		12-13-24 08:20	WATER	Sulfide			0
L2473538-02	MW-5D		12-13-24 09:45	WATER	Sulfide			0
L2473538-03	SCDOH-DR		12-13-24 11:20	WATER	Sulfide			0
L2473538-04	MW-10S		12-13-24 12:43	WATER	Sulfide			0
L2473538-05	MW-10D		12-13-24 12:30	WATER	Sulfide			0
Relinquished By:				Date/Time:		Received By:		Date/Time:
GURNESE (P)				12/13/24 18:31		Jed P-11		12/14/24, 7:40
roman pace				12-14-24 7:40				
Form No: AL_subcoc								

Effective Date:

Serial No:01272513:25

WO#: 70327669

Client Name:

Project #

PM: BDR**Due Date: 12/26/24**Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other**CLIENT: ALPHA**

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ NoneThermometer Used: TH211 Correction Factor: 0.0 ☐ Samples on ice, cooling process has begunCooler Temperature(°C): 0.8 Cooler Temperature Corrected(°C): 0.8 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 5.0°C

USDA Regulated Soil (☒ N/A, water sample)Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX,
or VA (check map)? ☐ Yes ☒ NoDid samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: SH 12/14/24

		COMMENTS:
Chain of Custody Present:	☒ Yes ☐ No	1.
Chain of Custody Filled Out:	☒ Yes ☐ No	2.
Chain of Custody Relinquished:	☐ Yes ☒ No	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☐ Yes ☒ No	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6.
Rush Turn Around Time Requested	☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒ Yes ☐ No	8.
Correct Containers Used:	☒ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No	10.
Containers Intact:	☒ Yes ☐ No ☐ N/A	11.
Filtered volume received for Dissolved tests	☐ Yes ☒ No ☐ N/A	12.
Sample Labels match COC:	☒ Yes ☐ No	
-Includes date/time/ID/Analysis Matrix:	<u>SL WT OIL OTHER</u>	

Date and Initials of person checking preservation: SH 12/14/24

All containers needing preservation have been	☐ Yes ☐ No ☒ N/A	13.	☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #		Sample #	
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☐ Yes ☐ No ☒ N/A NAOH>12 Cyanide)		Initial when completed:	Lot # of added preservative:
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).		Date/Time preservative added:	
Per Method, VOA pH is checked after analysis		14.	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A		15.	
KI starch test strips Lot #		Positive for Res. Chlorine?	Y N
Residual chlorine strips Lot #		16.	
SM 4500 CN samples checked for sul ☐ Yes ☐ No ☒ N/A		Positive for Sulfide?	Y N
Lead Acetate Strips Lot #		17.	
Headspace in ALK Bottle (>6mm): ☐ Yes ☐ No ☒ N/A			
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A			
Trip Blank Present: ☐ Yes ☐ No ☒ N/A			
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



December 24, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2473538
Pace Project No.: 50390320

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2473538
Pace Project No.: 50390320

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050

Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L2473538
Pace Project No.: 50390320

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50390320001	PZ-5	Water	12/13/24 08:20	12/17/24 09:40
50390320002	MW-5D	Water	12/13/24 09:45	12/17/24 09:40
50390320003	SCDOH-DR	Water	12/13/24 11:20	12/17/24 09:40
50390320004	MW-10S	Water	12/13/24 12:43	12/17/24 09:40
50390320005	MW-10D	Water	12/13/24 12:30	12/17/24 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L2473538
Pace Project No.: 50390320

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50390320001	PZ-5	EPA 9056	DMP1	1
50390320002	MW-5D	EPA 9056	DMP1	1
50390320003	SCDOH-DR	EPA 9056	DMP1	1
50390320004	MW-10S	EPA 9056	DMP1	1
50390320005	MW-10D	EPA 9056	DMP1	1

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473538

Pace Project No.: 50390320

Sample: PZ-5		Lab ID: 50390320001		Collected: 12/13/24 08:20		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 07:32		

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ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 50390320

Sample: MW-5D		Lab ID: 50390320002		Collected: 12/13/24 09:45		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 07:53		

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ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 50390320

Sample: SCDOH-DR		Lab ID: 50390320003		Collected: 12/13/24 11:20		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 08:14		

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ANALYTICAL RESULTS

Project: L2473538
Pace Project No.: 50390320

Sample: MW-10S		Lab ID: 50390320004		Collected: 12/13/24 12:43		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 08:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2473538

Pace Project No.: 50390320

Sample: MW-10D		Lab ID: 50390320005		Collected: 12/13/24 12:30		Received: 12/17/24 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 08:57		

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QUALITY CONTROL DATA

Project: L2473538
Pace Project No.: 50390320

QC Batch: 824470 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50390320001, 50390320002, 50390320003, 50390320004, 50390320005

METHOD BLANK: 3773866 Matrix: Water
Associated Lab Samples: 50390320001, 50390320002, 50390320003, 50390320004, 50390320005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	12/19/24 20:57	

LABORATORY CONTROL SAMPLE: 3773867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773868 3773869

Parameter	Units	50390319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	5.0	5.0	101	101	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: L2473538
Pace Project No.: 50390320

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

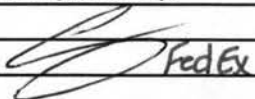
Project: L2473538

Pace Project No.: 50390320

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50390320001	PZ-5	EPA 9056	824470		
50390320002	MW-5D	EPA 9056	824470		
50390320003	SCDOH-DR	EPA 9056	824470		
50390320004	MW-10S	EPA 9056	824470		
50390320005	MW-10D	EPA 9056	824470		

REPORT OF LABORATORY ANALYSIS

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WO# : 50390320  50390320		Subcontract Chain of Custody Pace Analytical (Indianapolis, IN) 7726 Moller Road Indianapolis, IN 46268			Pace Job Number L2473538 Page 1			
		Project Information			Regulatory Requirements/Report Limits			
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com		Project Location: NY Project Manager: Jennifer Byrnes Turnaround & Deliverables Information Due Date: Deliverables: ASP Category B Deliverables			State/Federal Program: Regulatory Criteria: Report to MDL			
Project Specific Requirements and/or Report Requirements								
Reference following Pace Job Number on final report/deliverables: L2473538 Report to include Method and/or Regulatory required batch QC								
Additional Comments: L4 report needed/REPORT TO MDL/needs L4 and EDD 265 NY EQUIS								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2473538-01 L2473538-02 L2473538-03 L2473538-04 L2473538-05	PZ-5 MW-5D SCDOH-DR MW-10S MW-10D	12-13-24 08:20 12-13-24 09:45 12-13-24 11:20 12-13-24 12:43 12-13-24 12:30	WATER WATER WATER WATER WATER	Iodide Iodide Iodide Iodide Iodide			1 1 1 1 1
			Relinquished By:		Date/Time:	Received By:		Date/Time:
			 FedEx		12/16/24	FedEx		—
					12/17/24 940	TBy [Signature] Pace		12/17/24 940
Form No: AL_subcoc								



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

12/17/24 10:45 BS

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I2. **Cooler Temperature(s):**

1.2 / 1.1

(Initial/Corrected)

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. **Courier:**

Circle One

Fed Ex

UPS

Client

Pace

Now/Jett

Other

4. **Custody Seal on Cooler/Box Present:**☒ Yes ☐ No(If yes) **Seals Intact:**☒ Yes☐ No

(leave blank if no seals were present)

5. **Packing Material:**☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other6. **Ice Type:**☒ Wet☐ Blue☐ None7. **Was the PM notified of out of temp cooler?**☐ Yes☐ No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED? Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			X
Short Hold Time Analysis (48 hours or less)? Analysis:		X				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	X		Trip Blank Present?		X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Custody Seals?:			X
Extra labels on Terracore Vials? (soils only)			Out Of Temp Instructions if applicable:			

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers

that are out of conformance **

COC Line Item	WGFI	WGKU	BG1U	MeOH (only)	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS						PLASTIC						OTHER				Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
				SBS																											
				DI																											
1																															
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFI	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFI	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
Miscellaneous	
Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

Laboratory Report

Report prepared for:

Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581

Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:

Debbie S Robertson

Purchase Order:**For further assistance, contact:**

Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2473538 PZ-5		Received: 2024-12-17			
Lab ID: 2024-V-2864					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium	GLI Procedure ME-4D	< 5 ppm	As Received	204.87 mg	2025-01-03

Sample: L2473538 MW-5D		Received: 2024-12-17			
Lab ID: 2024-V-2865					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium	GLI Procedure ME-4D	< 5 ppm	As Received	204.86 mg	2025-01-03

Sample: L2473538 SCDOH-DR		Received: 2024-12-17			
Lab ID: 2024-V-2866					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium	GLI Procedure ME-4D	< 5 ppm	As Received	204.53 mg	2025-01-03

Sample: L2473538 MW-10S		Received: 2024-12-17			
Lab ID: 2024-V-2867					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium	GLI Procedure ME-4D	< 5 ppm	As Received	203.71 mg	2025-01-03

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Reported results are only applicable to the item tested.

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Sample: L2473538 MW-10D					
Lab ID: 2024-V-2868		Received: 2024-12-17			
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.62 mg	2025-01-03

Signatures:

Published By: Debbie.S.Robertson
Created By: Debbie.S.Robertson

2025-01-06T20:45:33.54-05:00
2025-01-06T20:44:46.63-05:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.



January 22, 2025

Jennifer Byrnes
Pace Westborough
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2473538
Pace Project No.: 30742906

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Customer Service, Alpha Analytical



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2473538
Pace Project No.: 30742906

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: L2473538
Pace Project No.: 30742906

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30742906001	L2473538-08 MW-10S_R	Water	12/13/24 12:43	12/16/24 22:00
30742906002	L2473538-09 EB_12132024_R	Water	12/13/24 13:30	12/16/24 22:00

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SAMPLE ANALYTE COUNT

Project: L2473538
Pace Project No.: 30742906

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30742906001	L2473538-08 MW-10S_R	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	6	PASI-PA
30742906002	L2473538-09 EB_12132024_R	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		HSL-300	JJY	6	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2473538
Pace Project No.: 30742906

Sample: L2473538-08 MW-10S_R Lab ID: 30742906001 Collected: 12/13/24 12:43 Received: 12/16/24 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.171 ± 0.643 (1.28) C:NA T:96%	pCi/L	01/02/25 14:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.576 ± 0.350 (0.636) C:77% T:91%	pCi/L	01/03/25 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Thorium-228	HSL-300	0.076 ± 0.193 (0.444) C:NA T:78%	pCi/L	01/02/25 14:43	14274-82-9	
Thorium-230	HSL-300	-0.016 ± 0.121 (0.200) C:NA T:78%	pCi/L	01/02/25 14:43	14269-63-7	
Thorium-232	HSL-300	0.059 ± 0.122 (0.168) C:NA T:78%	pCi/L	01/02/25 14:43	7440-29-1	
Uranium-234	HSL-300	0.146 ± 0.143 (0.210) C:NA T:89%	pCi/L	01/02/25 14:42	13966-29-5	
Uranium-235	HSL-300	0.189 ± 0.168 (0.102) C:NA T:89%	pCi/L	01/02/25 14:42	15117-96-1	
Uranium-238	HSL-300	0.225 ± 0.164 (0.144) C:NA T:89%	pCi/L	01/02/25 14:42		

Sample: L2473538-09 EB_12132024_R Lab ID: 30742906002 Collected: 12/13/24 13:30 Received: 12/16/24 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.321 ± 0.665 (1.17) C:NA T:93%	pCi/L	01/02/25 14:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.20 ± 0.451 (0.648) C:75% T:92%	pCi/L	01/03/25 14:12	15262-20-1	
Pace Analytical Services - Greensburg						
Thorium-228	HSL-300	0.053 ± 0.174 (0.414) C:NA T:85%	pCi/L	01/02/25 14:43	14274-82-9	
Thorium-230	HSL-300	0.046 ± 0.109 (0.179) C:NA T:85%	pCi/L	01/02/25 14:43	14269-63-7	
Thorium-232	HSL-300	0.008 ± 0.109 (0.201) C:NA T:85%	pCi/L	01/02/25 14:43	7440-29-1	
Uranium-234	HSL-300	0.117 ± 0.114 (0.077) C:NA T:89%	pCi/L	01/02/25 14:42	13966-29-5	
Uranium-235	HSL-300	0.221 ± 0.180 (0.100) C:NA T:89%	pCi/L	01/02/25 14:42	15117-96-1	
Uranium-238	HSL-300	0.198 ± 0.149 (0.077) C:NA T:89%	pCi/L	01/02/25 14:42		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2473538

Pace Project No.: 30742906

QC Batch: 716491

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30742906001, 30742906002

METHOD BLANK: 3490438

Matrix: Water

Associated Lab Samples: 30742906001, 30742906002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0419 ± 0.217 (0.451) C:NA T:85%	pCi/L	01/02/25 14:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2473538

Pace Project No.: 30742906

QC Batch: 716493

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30742906001, 30742906002

METHOD BLANK: 3490441

Matrix: Water

Associated Lab Samples: 30742906001, 30742906002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.785 ± 0.376 (0.626) C:77% T:89%	pCi/L	01/03/25 14:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2473538

Pace Project No.: 30742906

QC Batch: 717837

Analysis Method: HSL-300

QC Batch Method: HSL-300

Analysis Description: HSL300(AS) Actinides

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30742906001, 30742906002

METHOD BLANK: 3496643

Matrix: Water

Associated Lab Samples: 30742906001, 30742906002

Parameter	Act ± Unc (MDC) Carr Trac		Units	Analyzed	Qualifiers
Thorium-228	0.056 ± 0.183	(0.434) C:NA T:76%	pCi/L	01/02/25 14:43	
Thorium-230	-0.008 ± 0.117	(0.162) C:NA T:76%	pCi/L	01/02/25 14:43	
Thorium-232	0.000 ± 0.117	(0.088) C:NA T:76%	pCi/L	01/02/25 14:43	
Uranium-234	0.026 ± 0.115	(0.250) C:NA T:79%	pCi/L	01/02/25 14:42	
Uranium-235	0.000 ± 0.150	(0.113) C:NA T:79%	pCi/L	01/02/25 14:42	
Uranium-238	0.041 ± 0.115	(0.213) C:NA T:79%	pCi/L	01/02/25 14:42	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: L2473538
Pace Project No.: 30742906

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2473538

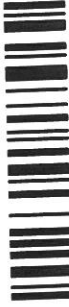
Pace Project No.: 30742906

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30742906001	L2473538-08 MW-10S_R	EPA 903.1	716491		
30742906002	L2473538-09 EB_12132024_R	EPA 903.1	716491		
30742906001	L2473538-08 MW-10S_R	EPA 904.0	716493		
30742906002	L2473538-09 EB_12132024_R	EPA 904.0	716493		
30742906001	L2473538-08 MW-10S_R	HSL-300	717837		
30742906002	L2473538-09 EB_12132024_R	HSL-300	717837		

REPORT OF LABORATORY ANALYSIS

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WO#: 30742906



30742906

Pace Job Number
L2473538

Page 1

Subcontract Chain of Custody

Pace Analytical (Greensburg, PA)
1638 Roseytown Rd, Suite 2
Greensburg, PA 15601



Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To: west.subreports@pacelabs.com
Bill To: invoices@pacelabs.coupahost.com

Phone: 716.427.5228
Email: Jennifer.Bynes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2473538 Report to include Method and/or Regulatory required batch QC

Additional Comments: NEEDS NYDEC EDD, ASPB/L4 Deliverables/Report to MDL/RA 226 by 903.1, RA 228 by 904.0, Thorium by HASL 300, Uranium by HASL 300

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2473538-08	MW-105_R	12-13-24 12:43	WATER	Radium 226	RA 226 by 903.1		0
				WATER	Radium 228	RA 228 by 904.0		0
				WATER	Thorium	Thorium by HASL 300		0
				WATER	Uranium by EPA 200.8	Uranium by HASL 300		0
	L2473538-09	EB_12132024_R	12-13-24 13:30	WATER	Radium 226	RA 226 by 903.1		0
				WATER	Radium 228	RA 228 by 904.0		0
				WATER	Thorium	Thorium by HASL 300		0
				WATER	Uranium by EPA 200.8	Uranium by HASL 300		0
Received by Pace Greensburg Therm ID <u>14</u> Corr Factor + <u>0.5</u> Receipt Temp <u>2.1</u> Corrected Temp <u>1.6</u> Correct Preservation <u>YN</u>								
Relinquished By:			Date/Time:		Received By:		Date/Time:	
<u>CHURCH (signature)</u>			<u>12-13-24 18:07</u>		<u>[signature]</u>		<u>12/15 12:40</u>	
<u>[signature]</u>			<u>12/15 17:30</u>		<u>[signature]</u>		<u>12-16-24 1730</u>	
<u>[signature]</u>			<u>12-16-24 2005</u>		<u>[signature]</u>		<u>12-16-24 2005</u>	
<u>[signature]</u>			<u>12-16-24 22:00</u>		<u>[signature]</u>		<u>12-16-24 22:00</u>	
Form No: AL_subcoc								

	DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt- Greensburg		WO# : 30742906
	Effective Date: 01/04/2024		PM: SCR Due Date: 01/09/25 CLIENT: ALPHA ANALYT
Client Name: <u>Alpha Analytical</u>		Project	

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking Number: Drop-off

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☒ No

Thermometer Used: 19 Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp 2.1 °C Correction Factor: -0.5 °C Final Temp: 1.6 °C

Temp should be above freezing to 6°C

Initial / Date

Examined By: EL 12-17-24
 Labeled By: EL 12-17-24
 Temped By: UB 12-16-24

Comments:	Yes	No	NA	pH paper Lot# <u>10D3241</u>	D.P.D. Residual Chlorine Lot # <u> </u>
Chain of Custody Present	☒	☐	☐	1.	
Chain of Custody Filled Out:	☒	☐	☐	2.	
-Were client corrections present on COC	☒	☐	☐		
Chain of Custody Relinquished	☒	☐	☐	3.	
Sampler Name & Signature on COC:	☒	☐	☐	4.	
Sample Labels match COC:	☒	☐	☐	5.	
-Includes date/time/ID	☒	☐	☐		
Matrix: <u>WT</u>	☒	☐	☐		
Samples Arrived within Hold Time:	☒	☐	☐	6.	
Short Hold Time Analysis (<72hr remaining):	☐	☒	☐	7.	
Rush Turn Around Time Requested:	☐	☒	☐	8.	
Sufficient Volume:	☒	☐	☐	9.	
Correct Containers Used:	☒	☐	☐	10.	
-Pace Containers Used	☐	☒	☐		
Containers Intact:	☒	☐	☐	11.	
Orthophosphate field filtered:	☐	☐	☒	12.	
Hex Cr Aqueous samples field filtered:	☐	☐	☒	13.	
Organic Samples checked for dichlorination	☐	☐	☒	14.	
Filtered volume received for dissolved tests:	☐	☐	☒	15.	
All containers checked for preservation:	☒	☐	☐	16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	☐	☐	☐	<u>pH < 2</u>	
All containers meet method preservation requirements:	☒	☐	☐	Initial when completed <u>EL</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)	☐	☐	☒	17.	
624.1: Headspace in VOA Vials (0mm)	☐	☐	☒	18.	
Radon: Headspace in RAD Vials (0mm)	☐	☐	☒	19.	
Trip Blank Present:	☐	☐	☒	Trip blank custody seal present? YES or NO	
Rad Samples Screened <.05 mrem/hr.	☒	☐	☐	Initial when completed <u>UB</u>	Date: <u>12-16-24</u> Survey Meter SN: <u>25042851</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
 PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

Page 1 of 1

Client

Site of 1

77735747

Page _____ of _____

Profile/EZ Login Number

06572

Notes

[illegible]

Container Codes

Glass			
GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

Plastic/Misc.			
GCUB	1 gallon cubitainer	EZI	5g Encore
12GN	1/2 gallon cubitainer	VOAK	Kit Volatile Solid
SP5T	12	W0#: 30742906	
BP1N	1L	vab	
BP1U	1L	tag	
BP3S	2L	PM: SCR Due Date: 01/09/25	
BP3N	2L	CLIENT: ALPHA ANALYT	
BP3U	250mL plastic unpreserved		
BP3B	250mL plastic NAOH		
BP2S	500mL plastic H2SO4	OL	Non-Aq Liquid
BP2U	500mL plastic unpreserved	WP	Wipe

Qualtrax ID: 55678

Pace® Analytical Services, LLC



ANALYTICAL REPORT

Lab Number:	L2473544
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Julia Michaels
Phone:	(631) 232-2600
Project Name:	CORAM MATERIALS
Project Number:	2232.0006Y005
Report Date:	12/30/24

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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 (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473544
Report Date: 12/30/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2473544-01	MW-10S_P	WATER	416 MILLER PLACE YAPHANK RD	12/13/24 12:43	12/13/24
L2473544-02	FIELD BLANK	WATER	416 MILLER PLACE YAPHANK RD	12/13/24 13:30	12/13/24

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473544
Report Date: 12/30/24

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473544
Report Date: 12/30/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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:

 Ashley Leita

Title: Technical Director/Representative

Date: 12/30/24

ORGANICS

SEMIVOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2473544**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS**

Lab ID: L2473544-01
 Client ID: MW-10S_P
 Sample Location: 416 MILLER PLACE YAPHANK RD

Date Collected: 12/13/24 12:43
 Date Received: 12/13/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 12/20/24 14:30
 Analyst: AC

Extraction Method: EPA 1633
 Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.96	J	ng/l	6.41	0.529	1
Perfluoropentanoic Acid (PFPeA)	0.537	J	ng/l	3.20	0.361	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.401	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.41	0.914	1
Perfluorohexanoic Acid (PFHxA)	0.729	J	ng/l	1.60	0.248	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.208	1
Perfluoroheptanoic Acid (PFHpA)	0.705	J	ng/l	1.60	0.240	1
Perfluorohexanesulfonic Acid (PFHxS)	0.200	J	ng/l	1.60	0.136	1
Perfluorooctanoic Acid (PFOA)	1.05	J	ng/l	1.60	0.264	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.41	4.82	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.200	1
Perfluorononanoic Acid (PFNA)	1.67		ng/l	1.60	0.264	1
Perfluorooctanesulfonic Acid (PFOS)	1.61		ng/l	1.60	0.264	1
Perfluorodecanoic Acid (PFDA)	0.216	J	ng/l	1.60	0.208	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.41	1.23	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.200	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.481	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.176	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.136	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.096	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.481	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.216	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.184	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.160	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.41	1.60	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.41	0.377	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.240	1



Project Name: CORAM MATERIALS**Lab Number:** L2473544**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS****Lab ID:** L2473544-01**Date Collected:** 12/13/24 12:43**Client ID:** MW-10S_P**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE YAPHANK RD**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.41	0.441	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.41	0.449	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.224	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.352	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.31	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.10	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.248	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.361	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.20	0.328	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	0.545	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.01	0.537	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.1	4.26	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.1	3.19	1

Project Name: CORAM MATERIALS**Lab Number:** L2473544**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS****Lab ID:** L2473544-01**Date Collected:** 12/13/24 12:43**Client ID:** MW-10S_P**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE YAPHANK RD**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	90		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	96		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	101		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	114		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	89		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	96		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	111		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	92		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	88		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	85		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	80		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	81		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	82		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	86		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	96		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	71		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	92		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	71		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	71		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	94		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	91		10-130

Project Name: CORAM MATERIALS**Lab Number:** L2473544**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS**

Lab ID: L2473544-02
 Client ID: FIELD BLANK
 Sample Location: 416 MILLER PLACE YAPHANK RD

Date Collected: 12/13/24 13:30
 Date Received: 12/13/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 12/20/24 15:17
 Analyst: AC

Extraction Method: EPA 1633
 Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.57	0.542	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.29	0.370	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.64	0.411	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.57	0.937	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.64	0.255	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.64	0.214	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.64	0.246	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.64	0.140	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.64	0.271	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.57	4.95	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.64	0.205	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.64	0.271	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.64	0.271	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.64	0.214	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.57	1.26	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.64	0.205	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.64	0.493	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.64	0.181	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.64	0.140	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.64	0.099	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.64	0.493	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.64	0.222	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.64	0.189	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.64	0.164	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.57	1.64	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.57	0.386	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.64	0.246	1



Project Name: CORAM MATERIALS**Lab Number:** L2473544**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS****Lab ID:** L2473544-02**Date Collected:** 12/13/24 13:30**Client ID:** FIELD BLANK**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE YAPHANK RD**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.57	0.452	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.57	0.460	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.64	0.230	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.64	0.362	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.4	1.34	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.4	1.13	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.29	0.255	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.29	0.370	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.29	0.337	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.29	0.559	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.22	0.551	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	41.1	4.37	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	41.1	3.27	1

Project Name: CORAM MATERIALS**Lab Number:** L2473544**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS****Lab ID:** L2473544-02**Date Collected:** 12/13/24 13:30**Client ID:** FIELD BLANK**Date Received:** 12/13/24**Sample Location:** 416 MILLER PLACE YAPHANK RD**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	98		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	101		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	104		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	97		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	99		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	101		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	103		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	93		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	97		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	88		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	95		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	84		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	84		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	82		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	99		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	90		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	94		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	74		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	104		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	71		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	74		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	93		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	94		10-130

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473544
Report Date: 12/30/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/20/24 10:12
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2010366-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	0.528
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.360
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.400
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	0.912
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.248
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.208
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.240
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.136
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.264
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	4.82
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.200
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.264
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.264
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.208
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	1.22
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.200
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.480
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.176
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.136
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.096
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.480
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.216
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.184
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.160
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	1.60
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	0.376
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.240



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473544
Report Date: 12/30/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/20/24 10:12
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2010366-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	0.440
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	0.448
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.224
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.352
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.10
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.248
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.360
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.328
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	0.544
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	0.536
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	4.26
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	3.18

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2473544
Report Date: 12/30/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/20/24 10:12
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/17/24 19:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2010366-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	95		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	99		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	98		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	95		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	93		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	90		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	96		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	90		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	99		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	91		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	95		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	83		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	84		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	89		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	99		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	91		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	102		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	80		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	95		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	72		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	76		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	93		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	93		10-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473544

Report Date: 12/30/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2010366-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	109		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	114		-		65-135	-		30
Perfluorobutanesulfonic Acid (PFBS)	107		-		60-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	99		-		70-145	-		30
Perfluorohexanoic Acid (PFHxA)	110		-		70-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	103		-		65-140	-		30
Perfluoroheptanoic Acid (PFHpA)	124		-		70-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	110		-		65-145	-		30
Perfluorooctanoic Acid (PFOA)	108		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	111		-		65-155	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	108		-		70-150	-		30
Perfluorononanoic Acid (PFNA)	120		-		70-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	108		-		55-150	-		30
Perfluorodecanoic Acid (PFDA)	138		-		70-140	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	113		-		60-150	-		30
Perfluorononanesulfonic Acid (PFNS)	106		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	115		-		50-140	-		30
Perfluoroundecanoic Acid (PFUnA)	144		-		70-145	-		30
Perfluorodecanesulfonic Acid (PFDS)	107		-		60-145	-		30
Perfluorooctanesulfonamide (PFOSA)	108		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	110		-		70-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473544

Report Date: 12/30/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2010366-2 LOW LEVEL								
Perfluorododecanoic Acid (PFDoA)	121		-		70-140	-		30
Perfluorotridecanoic Acid (PFTrDA)	113		-		65-140	-		30
Perfluorotetradecanoic Acid (PFTeDA)	111		-		60-140	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	113		-		70-140	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	122		-		65-145	-		30
Perfluorododecanesulfonic Acid (PFDoS)	104		-		50-145	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	118		-		70-155	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	114		-		55-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	108		-		60-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	116		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	117		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	117		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	103		-		55-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	114		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	108		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	114		-		50-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	118		-		65-130	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	109		-		70-135	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	91		-		50-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2473544

Project Number: 2232.0006Y005

Report Date: 12/30/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2010366-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	94				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	93				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	98				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	92				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	92				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	88				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	94				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	87				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	98				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	99				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	80				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	81				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	82				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	92				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	90				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	95				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	77				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	95				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	76				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	77				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	94				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	95				10-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473544

Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2010366-3								
Perfluorobutanoic Acid (PFBA)	110		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	108		-		65-135	-		30
Perfluorobutanesulfonic Acid (PFBS)	104		-		60-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	108		-		70-145	-		30
Perfluorohexanoic Acid (PFHxA)	112		-		70-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	114		-		65-140	-		30
Perfluoroheptanoic Acid (PFHpA)	125		-		70-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	109		-		65-145	-		30
Perfluorooctanoic Acid (PFOA)	106		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	117		-		65-155	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	115		-		70-150	-		30
Perfluorononanoic Acid (PFNA)	123		-		70-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	104		-		55-150	-		30
Perfluorodecanoic Acid (PFDA)	132		-		70-140	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	118		-		60-150	-		30
Perfluorononanesulfonic Acid (PFNS)	102		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	106		-		50-140	-		30
Perfluoroundecanoic Acid (PFUnA)	142		-		70-145	-		30
Perfluorodecanesulfonic Acid (PFDS)	106		-		60-145	-		30
Perfluorooctanesulfonamide (PFOSA)	103		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	101		-		70-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2473544

Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2010366-3								
Perfluorododecanoic Acid (PFDoA)	115		-		70-140	-		30
Perfluorotridecanoic Acid (PFTrDA)	107		-		65-140	-		30
Perfluorotetradecanoic Acid (PFTeDA)	107		-		60-140	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	112		-		70-140	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	120		-		65-145	-		30
Perfluorododecanesulfonic Acid (PFDoS)	100		-		50-145	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	116		-		70-155	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUs)	108		-		55-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	105		-		60-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	110		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	107		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	114		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	103		-		55-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	106		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	116		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	116		-		50-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	109		-		65-130	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	101		-		70-135	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	91		-		50-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2473544

Project Number: 2232.0006Y005

Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2010366-3								

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	97				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	101				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	108				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	102				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	92				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	88				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	98				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	96				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	96				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	94				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	94				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	99				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	82				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	84				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	85				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	90				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	87				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	98				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	84				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	101				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	74				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	79				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	99				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	97				10-130

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2473544-01A	Plastic 500ml unpreserved	D	NA		2.8	Y	Absent		A2-NY-1633(28)
L2473544-01B	Plastic 500ml unpreserved	D	NA		2.8	Y	Absent		A2-NY-1633(28)
L2473544-02A	Plastic 500ml unpreserved	D	NA		2.8	Y	Absent		A2-NY-1633(28)

*Values in parentheses indicate holding time in days



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Serial_No:12302409:40
Lab Number: L2473544
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

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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: DU Report with 'J' Qualifiers



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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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.)

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REFERENCES

- 144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **23**Published Date: **12/09/2024**Page **1** of **1****Certification Information**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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 Project Manager.

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ANALYTICAL REPORT

Lab Number:	L2474329
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Julia Michaels
Phone:	(631) 232-2600
Project Name:	CORAM MATERIALS
Project Number:	2232.0006Y005
Report Date:	01/27/25

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2474329-01	MW-4S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/16/24 11:00	12/17/24
L2474329-02	MW-4D2	WATER	416 MILLER PLACE-YAPHANK ROAD	12/16/24 11:50	12/17/24
L2474329-03	MW-12S	WATER	416 MILLER PLACE-YAPHANK ROAD	12/16/24 08:45	12/17/24
L2474329-04	MW-12D	WATER	416 MILLER PLACE-YAPHANK ROAD	12/16/24 09:33	12/17/24
L2474329-05	EB-12162024	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	12/16/24 12:00	12/17/24
L2474329-06	TB-12162024	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	12/16/24 12:10	12/17/24
L2474329-07	MW-4S_R	WATER	416 MILLER PLACE-YAPHANK ROAD	12/16/24 11:00	12/17/24

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Case Narrative (continued)

Report Revision

January 27, 2025: The subcontracted report for Radiochemistry has been amended.

Report Submission

January 13, 2025: This final report includes the results of all requested analyses.

December 26, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The following analyses were subcontracted: Ammonium, Iodide, Sulfide, Radium 226, Radium 228, Thorium, and Uranium. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2474329-01 through -05: Sample containers for Total Suspended Solids were received, but not listed on the chain of custody. At the client's request, the analysis was performed.

L2474329-02 and -05: Headspace was noted in the sample containers submitted for Carbonate Alkalinity - SM 2320 and Bicarbonate Alkalinity - SM 2320.

Solids, Total Dissolved

The WG2012514-3 Laboratory Duplicate RPD for solids, total dissolved (16%), performed on L2474329-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

The WG2012514-4 Laboratory Duplicate RPD for solids, total dissolved (53%), performed on L2474329-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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:



Kelly O'Neill

Title: Technical Director/Representative

Date: 01/27/25

ORGANICS

VOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/20/24 18:25

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2474329-01**Date Collected:** 12/16/24 11:00**Client ID:** MW-4S**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-02

Date Collected: 12/16/24 11:50

Client ID: MW-4D2

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 12/20/24 18:51

Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-02

Date Collected: 12/16/24 11:50

Client ID: MW-4D2

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-03
 Client ID: MW-12S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 08:45
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/21/24 12:54
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2474329-03**Date Collected:** 12/16/24 08:45**Client ID:** MW-12S**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-04
 Client ID: MW-12D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 09:33
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 12/21/24 13:20
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	3.4		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.23	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	4.8		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	4.9		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2474329-04**Date Collected:** 12/16/24 09:33**Client ID:** MW-12D**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-05
 Client ID: EB-12162024
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 12:00
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank
 Analytical Method: 1,8260D
 Analytical Date: 12/21/24 13:46
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-05

Date Collected: 12/16/24 12:00

Client ID: EB-12162024

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-06
 Client ID: TB-12162024
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 12:10
 Date Received: 12/17/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Trip Blank (Aqueous)
 Analytical Method: 1,8260D
 Analytical Date: 12/21/24 14:12
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-06

Date Collected: 12/16/24 12:10

Client ID: TB-12162024

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/20/24 11:11
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG2012422-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/20/24 11:11
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG2012422-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/20/24 11:11
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG2012422-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	109		70-130

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/21/24 06:51
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-06 Batch: WG2012561-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 12/21/24 06:51
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-06 Batch: WG2012561-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/21/24 06:51
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-06 Batch: WG2012561-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG2012422-3 WG2012422-4								
Methylene chloride	98		86		70-130	13		20
1,1-Dichloroethane	87		75		70-130	15		20
Chloroform	110		93		70-130	17		20
Carbon tetrachloride	100		89		63-132	12		20
1,2-Dichloropropane	84		71		70-130	17		20
Dibromochloromethane	100		90		63-130	11		20
1,1,2-Trichloroethane	100		91		70-130	9		20
Tetrachloroethene	110		91		70-130	19		20
Chlorobenzene	100		88		75-130	13		20
Trichlorofluoromethane	110		90		62-150	20		20
1,2-Dichloroethane	94		83		70-130	12		20
1,1,1-Trichloroethane	110		90		67-130	20		20
Bromodichloromethane	100		91		67-130	9		20
trans-1,3-Dichloropropene	100		90		70-130	11		20
cis-1,3-Dichloropropene	100		86		70-130	15		20
Bromoform	100		92		54-136	8		20
1,1,2,2-Tetrachloroethane	92		83		67-130	10		20
Benzene	100		88		70-130	13		20
Toluene	100		87		70-130	14		20
Ethylbenzene	100		87		70-130	14		20
Chloromethane	59	Q	49	Q	64-130	19		20
Bromomethane	68		58		39-139	16		20
Vinyl chloride	75		62		55-140	19		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG2012422-3 WG2012422-4								
Chloroethane	87		73		55-138	18		20
1,1-Dichloroethene	100		85		61-145	16		20
trans-1,2-Dichloroethene	100		90		70-130	11		20
Trichloroethene	98		84		70-130	15		20
1,2-Dichlorobenzene	98		86		70-130	13		20
1,3-Dichlorobenzene	97		85		70-130	13		20
1,4-Dichlorobenzene	99		86		70-130	14		20
Methyl tert butyl ether	110		95		63-130	15		20
p/m-Xylene	105		90		70-130	15		20
o-Xylene	105		90		70-130	15		20
cis-1,2-Dichloroethene	100		91		70-130	9		20
Styrene	105		90		70-130	15		20
Dichlorodifluoromethane	100		81		36-147	21	Q	20
Acetone	68		59		58-148	14		20
Carbon disulfide	100		87		51-130	14		20
2-Butanone	78		74		63-138	5		20
4-Methyl-2-pentanone	70		67		59-130	4		20
2-Hexanone	68		63		57-130	8		20
Bromochloromethane	110		94		70-130	16		20
1,2-Dibromoethane	100		90		70-130	11		20
1,2-Dibromo-3-chloropropane	84		79		41-144	6		20
Isopropylbenzene	93		79		70-130	16		20
1,2,3-Trichlorobenzene	97		87		70-130	11		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG2012422-3 WG2012422-4								
1,2,4-Trichlorobenzene	100		89		70-130	12		20
Methyl Acetate	71		64	Q	70-130	10		20
Cyclohexane	73		59	Q	70-130	21	Q	20
Freon-113	110		86		70-130	24	Q	20
Methyl cyclohexane	100		80		70-130	22	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	104		105		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-06 Batch: WG2012561-3 WG2012561-4								
Methylene chloride	99		92		70-130	7		20
1,1-Dichloroethane	110		97		70-130	13		20
Chloroform	100		94		70-130	6		20
Carbon tetrachloride	96		87		63-132	10		20
1,2-Dichloropropane	110		99		70-130	11		20
Dibromochloromethane	98		88		63-130	11		20
1,1,2-Trichloroethane	110		98		70-130	12		20
Tetrachloroethene	99		90		70-130	10		20
Chlorobenzene	100		96		75-130	4		20
Trichlorofluoromethane	120		110		62-150	9		20
1,2-Dichloroethane	100		96		70-130	4		20
1,1,1-Trichloroethane	100		92		67-130	8		20
Bromodichloromethane	99		92		67-130	7		20
trans-1,3-Dichloropropene	96		88		70-130	9		20
cis-1,3-Dichloropropene	94		89		70-130	5		20
Bromoform	91		84		54-136	8		20
1,1,2,2-Tetrachloroethane	120		110		67-130	9		20
Benzene	100		98		70-130	2		20
Toluene	100		97		70-130	3		20
Ethylbenzene	110		98		70-130	12		20
Chloromethane	100		95		64-130	5		20
Bromomethane	74		69		39-139	7		20
Vinyl chloride	120		110		55-140	9		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-06 Batch: WG2012561-3 WG2012561-4								
Chloroethane	150	Q	140	Q	55-138	7		20
1,1-Dichloroethene	120		110		61-145	9		20
trans-1,2-Dichloroethene	100		92		70-130	8		20
Trichloroethene	100		96		70-130	4		20
1,2-Dichlorobenzene	110		100		70-130	10		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	90		82		63-130	9		20
p/m-Xylene	105		95		70-130	10		20
o-Xylene	105		95		70-130	10		20
cis-1,2-Dichloroethene	100		94		70-130	6		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	100		94		36-147	6		20
Acetone	86		75		58-148	14		20
Carbon disulfide	120		110		51-130	9		20
2-Butanone	100		91		63-138	9		20
4-Methyl-2-pentanone	99		85		59-130	15		20
2-Hexanone	98		87		57-130	12		20
Bromochloromethane	98		92		70-130	6		20
1,2-Dibromoethane	100		96		70-130	4		20
1,2-Dibromo-3-chloropropane	95		85		41-144	11		20
Isopropylbenzene	100		98		70-130	2		20
1,2,3-Trichlorobenzene	94		92		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-06 Batch: WG2012561-3 WG2012561-4								
1,2,4-Trichlorobenzene	95		92		70-130	3		20
Methyl Acetate	99		87		70-130	13		20
Cyclohexane	100		95		70-130	5		20
Freon-113	120		110		70-130	9		20
Methyl cyclohexane	97		89		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		98		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	97		97		70-130

SEMIVOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E

Extraction Date: 12/20/24 21:39

Analytical Date: 12/21/24 14:11

Analyst: SMZ

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2474329-01**Date Collected:** 12/16/24 11:00**Client ID:** MW-4S**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	5.5		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	3.0	J	ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	79		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/20/24 21:39

Analytical Date: 12/21/24 19:36

Analyst: SLR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	0.06	J	ug/l	0.80	0.06	1
Hexachlorobenzene	0.02	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	80		41-149

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2474329-01
Client ID: MW-4S
Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 11:00
Date Received: 12/17/24
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 12/24/24 16:51
Analyst: GRS

Extraction Method: EPA 3510C
Extraction Date: 12/18/24 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	29			15-110		

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-02
 Client ID: MW-4D2
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 11:50
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/21/24 14:33
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2474329-02**Date Collected:** 12/16/24 11:50**Client ID:** MW-4D2**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	1.4	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	73		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-02
 Client ID: MW-4D2
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 11:50
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/21/24 19:53
 Analyst: SLR

Extraction Method: EPA 3510C
 Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-02

Date Collected: 12/16/24 11:50

Client ID: MW-4D2

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	75		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-03
 Client ID: MW-12S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 08:45
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/21/24 14:56
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2474329-03**Date Collected:** 12/16/24 08:45**Client ID:** MW-12S**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	77		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-03
 Client ID: MW-12S
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 08:45
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/21/24 20:10
 Analyst: SLR

Extraction Method: EPA 3510C
 Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	0.09	J	ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-03

Date Collected: 12/16/24 08:45

Client ID: MW-12S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	80		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-04
 Client ID: MW-12D
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 09:33
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 12/21/24 15:19
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2474329-04**Date Collected:** 12/16/24 09:33**Client ID:** MW-12D**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	1.4	J	ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	75		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-04

Date Collected: 12/16/24 09:33

Client ID: MW-12D

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E-SIM

Extraction Date: 12/20/24 21:39

Analytical Date: 12/21/24 20:27

Analyst: SLR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-04

Date Collected: 12/16/24 09:33

Client ID: MW-12D

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	108		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	77		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-05
 Client ID: EB-12162024
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 12:00
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank
 Analytical Method: 1,8270E
 Analytical Date: 12/21/24 15:41
 Analyst: SMZ

Extraction Method: EPA 3510C
 Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84	1
Hexachlorocyclopentadiene	ND		ug/l	20	1.2	1
Isophorone	ND		ug/l	5.0	0.86	1
Nitrobenzene	ND		ug/l	2.0	0.20	1
NDPA/DPA	ND		ug/l	2.0	0.92	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.6	1
Di-n-butylphthalate	ND		ug/l	5.0	0.96	1
Di-n-octylphthalate	ND		ug/l	5.0	2.3	1
Diethyl phthalate	ND		ug/l	5.0	0.76	1
Dimethyl phthalate	ND		ug/l	5.0	0.92	1
Biphenyl	ND		ug/l	2.0	0.20	1
4-Chloroaniline	ND		ug/l	5.0	0.47	1
2-Nitroaniline	ND		ug/l	5.0	1.0	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.4	1
Dibenzofuran	ND		ug/l	2.0	0.40	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24	1
Acetophenone	ND		ug/l	5.0	0.92	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS****Lab ID:** L2474329-05**Date Collected:** 12/16/24 12:00**Client ID:** EB-12162024**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD**Field Prep:** Refer to COC**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Chlorophenol	ND		ug/l	2.0	0.65	1
2,4-Dichlorophenol	ND		ug/l	5.0	1.7	1
2,4-Dimethylphenol	ND		ug/l	5.0	2.0	1
2-Nitrophenol	ND		ug/l	10	2.0	1
4-Nitrophenol	ND		ug/l	10	1.4	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3	1
Phenol	ND		ug/l	5.0	0.35	1
2-Methylphenol	ND		ug/l	5.0	2.3	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1	1
Carbazole	ND		ug/l	2.0	0.31	1
Atrazine	ND		ug/l	10	1.0	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	72		41-149

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-05
 Client ID: EB-12162024
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Date Collected: 12/16/24 12:00
 Date Received: 12/17/24
 Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank
 Analytical Method: 1,8270E-SIM
 Analytical Date: 12/21/24 20:44
 Analyst: SLR

Extraction Method: EPA 3510C
 Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.02	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.03	1
Hexachlorobutadiene	ND		ug/l	0.50	0.02	1
Naphthalene	ND		ug/l	0.10	0.02	1
Benzo(a)anthracene	ND		ug/l	0.10	0.03	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03	1
Chrysene	ND		ug/l	0.10	0.03	1
Acenaphthylene	ND		ug/l	0.10	0.02	1
Anthracene	ND		ug/l	0.10	0.02	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.02	1
Fluorene	ND		ug/l	0.10	0.03	1
Phenanthrene	ND		ug/l	0.10	0.04	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.03	1
Pentachlorophenol	ND		ug/l	0.80	0.06	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.02	1
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05	1

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-05

Date Collected: 12/16/24 12:00

Client ID: EB-12162024

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	75		41-149

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/24/24 09:32
Analyst: GRS

Extraction Method: EPA 3510C
Extraction Date: 12/18/24 20:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01 Batch: WG2010978-1					
1,4-Dioxane	ND		ug/l	0.150	0.0339

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/21/24 10:03
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG2012045-1					
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.8
2,4-Dinitrotoluene	ND		ug/l	5.0	0.54
2,6-Dinitrotoluene	ND		ug/l	5.0	0.84
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.39
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.24
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.40
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.84
Hexachlorocyclopentadiene	ND		ug/l	20	1.2
Isophorone	ND		ug/l	5.0	0.86
Nitrobenzene	ND		ug/l	2.0	0.20
NDPA/DPA	ND		ug/l	2.0	0.92
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.91
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	2.6
Di-n-butylphthalate	ND		ug/l	5.0	0.96
Di-n-octylphthalate	ND		ug/l	5.0	2.3
Diethyl phthalate	ND		ug/l	5.0	0.76
Dimethyl phthalate	ND		ug/l	5.0	0.92
Biphenyl	ND		ug/l	2.0	0.20
4-Chloroaniline	ND		ug/l	5.0	0.47
2-Nitroaniline	ND		ug/l	5.0	1.0
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.4
Dibenzofuran	ND		ug/l	2.0	0.40
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.24
Acetophenone	ND		ug/l	5.0	0.92
2,4,6-Trichlorophenol	ND		ug/l	5.0	2.1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61
2-Chlorophenol	ND		ug/l	2.0	0.65



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/21/24 10:03
Analyst: SMZ

Extraction Method: EPA 3510C
Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG2012045-1					
2,4-Dichlorophenol	ND		ug/l	5.0	1.7
2,4-Dimethylphenol	ND		ug/l	5.0	2.0
2-Nitrophenol	ND		ug/l	10	2.0
4-Nitrophenol	ND		ug/l	10	1.4
2,4-Dinitrophenol	ND		ug/l	20	5.4
4,6-Dinitro-o-cresol	ND		ug/l	10	2.3
Phenol	ND		ug/l	5.0	0.35
2-Methylphenol	ND		ug/l	5.0	2.3
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.4
2,4,5-Trichlorophenol	ND		ug/l	5.0	2.1
Carbazole	ND		ug/l	2.0	0.31
Atrazine	ND		ug/l	10	1.0
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	1.2

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	76		41-149

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/22/24 12:51
Analyst: SLR

Extraction Method: EPA 3510C
Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG2012049-1					
Acenaphthene	ND		ug/l	0.10	0.02
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.03
Hexachlorobutadiene	ND		ug/l	0.50	0.02
Naphthalene	0.05	J	ug/l	0.10	0.02
Benzo(a)anthracene	ND		ug/l	0.10	0.03
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.03
Benzo(k)fluoranthene	ND		ug/l	0.10	0.03
Chrysene	ND		ug/l	0.10	0.03
Acenaphthylene	ND		ug/l	0.10	0.02
Anthracene	ND		ug/l	0.10	0.02
Benzo(ghi)perylene	ND		ug/l	0.10	0.02
Fluorene	ND		ug/l	0.10	0.03
Phenanthrene	ND		ug/l	0.10	0.04
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.03
Pentachlorophenol	ND		ug/l	0.80	0.06
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.02
Bis(2-chloroethyl)ether	ND		ug/l	0.10	0.05

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/22/24 12:51
Analyst: SLR

Extraction Method: EPA 3510C
Extraction Date: 12/20/24 21:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG2012049-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	99		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01 Batch: WG2010978-2 WG2010978-3								
1,4-Dioxane	126		128		40-140	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	45		42		15-110

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2012045-2 WG2012045-3								
3,3'-Dichlorobenzidine	80		81		40-140	1		30
2,4-Dinitrotoluene	85		87		48-143	2		30
2,6-Dinitrotoluene	81		84		40-140	4		30
4-Chlorophenyl phenyl ether	73		74		40-140	1		30
4-Bromophenyl phenyl ether	79		83		40-140	5		30
Bis(2-chloroisopropyl)ether	68		73		40-140	7		30
Bis(2-chloroethoxy)methane	72		80		40-140	11		30
Hexachlorocyclopentadiene	39	Q	41		40-140	5		30
Isophorone	74		78		40-140	5		30
Nitrobenzene	70		79		40-140	12		30
NDPA/DPA	75		78		40-140	4		30
n-Nitrosodi-n-propylamine	76		80		29-132	5		30
Bis(2-ethylhexyl)phthalate	86		97		40-140	12		30
Butyl benzyl phthalate	88		96		40-140	9		30
Di-n-butylphthalate	84		86		40-140	2		30
Di-n-octylphthalate	85		97		40-140	13		30
Diethyl phthalate	80		82		40-140	2		30
Dimethyl phthalate	82		83		40-140	1		30
Biphenyl	85		88		40-140	3		30
4-Chloroaniline	73		58		40-140	23		30
2-Nitroaniline	86		90		52-143	5		30
3-Nitroaniline	82		86		25-145	5		30
4-Nitroaniline	89		96		51-143	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2012045-2 WG2012045-3								
Dibenzofuran	72		76		40-140	5		30
1,2,4,5-Tetrachlorobenzene	79		81		2-134	3		30
Acetophenone	96		99		39-129	3		30
2,4,6-Trichlorophenol	82		81		30-130	1		30
p-Chloro-m-cresol	81		82		23-97	1		30
2-Chlorophenol	70		74		27-123	6		30
2,4-Dichlorophenol	78		80		30-130	3		30
2,4-Dimethylphenol	51		57		30-130	11		30
2-Nitrophenol	76		81		30-130	6		30
4-Nitrophenol	65		70		10-80	7		30
2,4-Dinitrophenol	39		50		20-130	25		30
4,6-Dinitro-o-cresol	70		76		20-164	8		30
Phenol	40		46		12-110	14		30
2-Methylphenol	63		68		30-130	8		30
3-Methylphenol/4-Methylphenol	65		72		30-130	10		30
2,4,5-Trichlorophenol	84		88		30-130	5		30
Carbazole	79		81		55-144	3		30
Atrazine	111		116		40-140	4		30
Benzaldehyde	95		104		40-140	9		30
Caprolactam	34		34		10-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG2012045-2 WG2012045-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		56		21-120
Phenol-d6	36		43		10-120
Nitrobenzene-d5	79		81		23-120
2-Fluorobiphenyl	70		70		15-120
2,4,6-Tribromophenol	92		91		10-120
4-Terphenyl-d14	73		77		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG2012049-2 WG2012049-3								
Acenaphthene	88		94		40-140	7		40
2-Chloronaphthalene	78		82		40-140	5		40
Fluoranthene	108		112		40-140	4		40
Hexachlorobutadiene	66		70		40-140	6		40
Naphthalene	76		81		40-140	6		40
Benzo(a)anthracene	108		114		40-140	5		40
Benzo(a)pyrene	112		118		40-140	5		40
Benzo(b)fluoranthene	104		112		40-140	7		40
Benzo(k)fluoranthene	114		116		40-140	2		40
Chrysene	119		122		40-140	2		40
Acenaphthylene	83		88		40-140	6		40
Anthracene	101		107		40-140	6		40
Benzo(ghi)perylene	110		118		40-140	7		40
Fluorene	96		102		40-140	6		40
Phenanthrene	105		110		40-140	5		40
Dibenzo(a,h)anthracene	114		121		40-140	6		40
Indeno(1,2,3-cd)pyrene	116		126		40-140	8		40
Pyrene	108		113		40-140	5		40
2-Methylnaphthalene	77		81		40-140	5		40
Pentachlorophenol	95		108		40-140	13		40
Hexachlorobenzene	102		109		40-140	7		40
Hexachloroethane	68		73		40-140	7		40
Bis(2-chloroethyl)ether	77		83		40-140	8		40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG2012049-2 WG2012049-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		62		21-120
Phenol-d6	44		47		10-120
Nitrobenzene-d5	82		86		23-120
2-Fluorobiphenyl	77		79		15-120
2,4,6-Tribromophenol	108		113		10-120
4-Terphenyl-d14	97		100		41-149

METALS

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Barium, Total	0.0437		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Calcium, Total	11.0		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Iron, Total	ND		mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Magnesium, Total	3.20		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Manganese, Total	0.0072	J	mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 21:46	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Potassium, Total	1.69	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Sodium, Total	58.0		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 22:35	EPA 3005A	19,200.7	JMF

Dissolved Metals - Mansfield Lab

Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0455		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	10.8		mg/l	0.100	0.0350	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	3.28		mg/l	0.100	0.0153	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0076	J	mg/l	0.0100	0.0016	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	0.00009	J	mg/l	0.00020	0.00009	1	12/22/24 19:46	12/23/24 10:10	EPA 245.1	3,245.1	JWN
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.77	J	mg/l	2.50	0.237	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	58.0		mg/l	2.00	0.120	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/22/24 17:51	12/23/24 14:14	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-02

Date Collected: 12/16/24 11:50

Client ID: MW-4D2

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Barium, Total	0.0155		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Calcium, Total	12.2		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Chromium, Total	0.0034	J	mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Iron, Total	0.0204	J	mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Magnesium, Total	5.75		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 22:24	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Potassium, Total	0.993	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Sodium, Total	9.12		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 23:28	EPA 3005A	19,200.7	JMF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0158		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-02

Date Collected: 12/16/24 11:50

Client ID: MW-4D2

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	11.9		mg/l	0.100	0.0350	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	0.0027	J	mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	5.96		mg/l	0.100	0.0153	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/22/24 19:46	12/23/24 10:26	EPA 245.1	3,245.1	JWN
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.03	J	mg/l	2.50	0.237	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	9.14		mg/l	2.00	0.120	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/22/24 17:51	12/23/24 14:18	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-03

Date Collected: 12/16/24 08:45

Client ID: MW-12S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0556	J	mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Barium, Total	0.0732		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Calcium, Total	8.45		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Chromium, Total	0.0115		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Iron, Total	0.188		mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Magnesium, Total	2.75		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Manganese, Total	0.0356		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/20/24 00:08	EPA 245.1	3,245.1	MJR
Nickel, Total	0.0105	J	mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Potassium, Total	1.40	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Sodium, Total	70.0		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Zinc, Total	0.0098		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 23:35	EPA 3005A	19,200.7	JMF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0740		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-03

Date Collected: 12/16/24 08:45

Client ID: MW-12S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	8.35		mg/l	0.100	0.0350	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Iron, Dissolved	0.0269	J	mg/l	0.0500	0.0090	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	2.71		mg/l	0.100	0.0153	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	0.0278		mg/l	0.0100	0.0016	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/22/24 19:46	12/23/24 10:29	EPA 245.1	3,245.1	JWN
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.45	J	mg/l	2.50	0.237	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	67.9		mg/l	2.00	0.120	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0086		mg/l	0.0050	0.0021	1	12/22/24 17:51	12/23/24 14:23	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-04

Date Collected: 12/16/24 09:33

Client ID: MW-12D

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0521	J	mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Barium, Total	0.0368		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Calcium, Total	13.5		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Chromium, Total	0.0044	J	mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Iron, Total	0.0474	J	mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Magnesium, Total	5.44		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/20/24 00:12	EPA 245.1	3,245.1	MJR
Nickel, Total	0.0043	J	mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Potassium, Total	1.11	J	mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Sodium, Total	14.5		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Zinc, Total	0.0099		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 23:41	EPA 3005A	19,200.7	JMF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Barium, Dissolved	0.0381		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-04

Date Collected: 12/16/24 09:33

Client ID: MW-12D

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	13.5		mg/l	0.100	0.0350	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	0.0037	J	mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	5.66		mg/l	0.100	0.0153	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/22/24 19:46	12/23/24 10:33	EPA 245.1	3,245.1	JWN
Nickel, Dissolved	0.0035	J	mg/l	0.0250	0.0024	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	1.16	J	mg/l	2.50	0.237	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	14.4		mg/l	2.00	0.120	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	0.0100		mg/l	0.0050	0.0021	1	12/22/24 17:51	12/23/24 14:27	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-05

Date Collected: 12/16/24 12:00

Client ID: EB-12162024

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Barium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Calcium, Total	ND		mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Iron, Total	ND		mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Magnesium, Total	ND		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/20/24 00:15	EPA 245.1	3,245.1	MJR
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Potassium, Total	ND		mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Sodium, Total	ND		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 23:48	EPA 3005A	19,200.7	JMF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Barium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**SAMPLE RESULTS**

Lab ID: L2474329-05

Date Collected: 12/16/24 12:00

Client ID: EB-12162024

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Calcium, Dissolved	ND		mg/l	0.100	0.0350	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Magnesium, Dissolved	ND		mg/l	0.100	0.0153	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	12/22/24 19:46	12/23/24 10:47	EPA 245.1	3,245.1	JWN
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Potassium, Dissolved	ND		mg/l	2.50	0.237	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Sodium, Dissolved	ND		mg/l	2.00	0.120	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/22/24 17:51	12/23/24 14:32	EPA 3005A	19,200.7	DMC



Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2010915-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Antimony, Total	ND		mg/l	0.0500	0.0071	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Barium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Calcium, Total	0.0487	J	mg/l	0.100	0.0350	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Chromium, Total	ND		mg/l	0.0100	0.0021	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Cobalt, Total	ND		mg/l	0.0200	0.0017	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Copper, Total	ND		mg/l	0.0100	0.0022	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Iron, Total	ND		mg/l	0.0500	0.0090	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Lead, Total	ND		mg/l	0.0100	0.0027	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Magnesium, Total	ND		mg/l	0.100	0.0153	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Manganese, Total	ND		mg/l	0.0100	0.0016	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Nickel, Total	ND		mg/l	0.0250	0.0024	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Potassium, Total	ND		mg/l	2.50	0.237	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Selenium, Total	ND		mg/l	0.0100	0.0035	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Silver, Total	ND		mg/l	0.0070	0.0028	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Sodium, Total	ND		mg/l	2.00	0.120	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Thallium, Total	ND		mg/l	0.0200	0.0025	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Vanadium, Total	ND		mg/l	0.0100	0.0020	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF
Zinc, Total	ND		mg/l	0.0050	0.0021	1	12/18/24 18:46	12/19/24 20:03	19,200.7	JMF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2010924-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/18/24 19:28	12/19/24 21:40	3,245.1	MJR



Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2012440-1										
Aluminum, Dissolved	ND		mg/l	0.100	0.0318	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Antimony, Dissolved	ND		mg/l	0.0500	0.0071	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Arsenic, Dissolved	ND		mg/l	0.0050	0.0019	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Barium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Beryllium, Dissolved	ND		mg/l	0.0050	0.0009	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Cadmium, Dissolved	ND		mg/l	0.0050	0.0010	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Calcium, Dissolved	ND		mg/l	0.100	0.0350	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Chromium, Dissolved	ND		mg/l	0.0100	0.0021	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Cobalt, Dissolved	ND		mg/l	0.0200	0.0017	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Copper, Dissolved	ND		mg/l	0.0100	0.0022	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Iron, Dissolved	ND		mg/l	0.0500	0.0090	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Lead, Dissolved	ND		mg/l	0.0100	0.0027	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Magnesium, Dissolved	ND		mg/l	0.100	0.0153	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Manganese, Dissolved	ND		mg/l	0.0100	0.0016	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Nickel, Dissolved	ND		mg/l	0.0250	0.0024	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Potassium, Dissolved	ND		mg/l	2.50	0.237	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Selenium, Dissolved	ND		mg/l	0.0100	0.0035	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Silver, Dissolved	ND		mg/l	0.0070	0.0028	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Sodium, Dissolved	ND		mg/l	2.00	0.120	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Thallium, Dissolved	ND		mg/l	0.0200	0.0025	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Vanadium, Dissolved	ND		mg/l	0.0100	0.0020	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC
Zinc, Dissolved	ND		mg/l	0.0050	0.0021	1	12/22/24 17:51	12/23/24 09:51	19,200.7	DMC

Prep Information

Digestion Method: EPA 3005A



Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2012441-1										
Mercury, Dissolved	0.00013	J	mg/l	0.00020	0.00009	1	12/22/24 19:46	12/23/24 10:03	3,245.1	JWN

Prep Information

Digestion Method: EPA 245.1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010915-2								
Aluminum, Total	113		-		85-115	-		
Antimony, Total	108		-		85-115	-		
Arsenic, Total	102		-		85-115	-		
Barium, Total	112		-		85-115	-		
Beryllium, Total	109		-		85-115	-		
Cadmium, Total	105		-		85-115	-		
Calcium, Total	111		-		85-115	-		
Chromium, Total	100		-		85-115	-		
Cobalt, Total	110		-		85-115	-		
Copper, Total	110		-		85-115	-		
Iron, Total	105		-		85-115	-		
Lead, Total	109		-		85-115	-		
Magnesium, Total	101		-		85-115	-		
Manganese, Total	106		-		85-115	-		
Nickel, Total	103		-		85-115	-		
Potassium, Total	112		-		85-115	-		
Selenium, Total	109		-		85-115	-		
Silver, Total	105		-		85-115	-		
Sodium, Total	113		-		85-115	-		
Thallium, Total	107		-		85-115	-		
Vanadium, Total	102		-		85-115	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010915-2					
Zinc, Total	111	-	85-115	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2010924-2					
Mercury, Total	95	-	85-115	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2012440-2					
Aluminum, Dissolved	110	-	85-115	-	
Antimony, Dissolved	85	-	85-115	-	
Arsenic, Dissolved	98	-	85-115	-	
Barium, Dissolved	104	-	85-115	-	
Beryllium, Dissolved	101	-	85-115	-	
Cadmium, Dissolved	100	-	85-115	-	
Calcium, Dissolved	100	-	85-115	-	
Chromium, Dissolved	101	-	85-115	-	
Cobalt, Dissolved	102	-	85-115	-	
Copper, Dissolved	104	-	85-115	-	
Iron, Dissolved	100	-	85-115	-	
Lead, Dissolved	103	-	85-115	-	
Magnesium, Dissolved	101	-	85-115	-	
Manganese, Dissolved	100	-	85-115	-	
Nickel, Dissolved	99	-	85-115	-	
Potassium, Dissolved	112	-	85-115	-	
Selenium, Dissolved	100	-	85-115	-	
Silver, Dissolved	105	-	85-115	-	
Sodium, Dissolved	113	-	85-115	-	
Thallium, Dissolved	106	-	85-115	-	
Vanadium, Dissolved	106	-	85-115	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2012440-2					
Zinc, Dissolved	98	-	85-115	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2012441-2					
Mercury, Dissolved	111	-	85-115	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010915-3			QC Sample: L2474304-01			Client ID: MS Sample			
Aluminum, Total	4.93	2	7.30	118		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.575	115		-	-		75-125	-		20
Arsenic, Total	0.005J	0.12	0.134	112		-	-		75-125	-		20
Barium, Total	0.044	2	2.38	117		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.0570	114		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.0551	104		-	-		75-125	-		20
Calcium, Total	40.8	10	50.7	99		-	-		75-125	-		20
Chromium, Total	0.007J	0.2	0.197	98		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.552	110		-	-		75-125	-		20
Copper, Total	0.018	0.25	0.286	107		-	-		75-125	-		20
Iron, Total	1.52	1	2.48	96		-	-		75-125	-		20
Lead, Total	0.029	0.53	0.606	109		-	-		75-125	-		20
Magnesium, Total	5.36	10	15.1	97		-	-		75-125	-		20
Manganese, Total	0.176	0.5	0.707	106		-	-		75-125	-		20
Nickel, Total	0.005J	0.5	0.520	104		-	-		75-125	-		20
Potassium, Total	12.4	10	24.1	117		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.141	118		-	-		75-125	-		20
Silver, Total	ND	0.05	0.0523	105		-	-		75-125	-		20
Sodium, Total	128	10	142	140	Q	-	-		75-125	-		20
Thallium, Total	ND	0.12	0.126	105		-	-		75-125	-		20
Vanadium, Total	0.0104	0.5	0.506	99		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control**Project Name:** CORAM MATERIALS**Project Number:** 2232.0006Y005**Lab Number:** L2474329**Report Date:** 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010915-3 QC Sample: L2474304-01 Client ID: MS Sample									
Zinc, Total	0.031	0.5	0.567	107	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010915-7		QC Sample: L2474304-02		Client ID: MS Sample		
Aluminum, Total	ND	2	2.25	112	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.542	108	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.128	107	-	-	75-125	-	20
Barium, Total	0.038	2	2.14	105	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.0520	104	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.0552	104	-	-	75-125	-	20
Calcium, Total	43.4	10	53.7	103	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.193	96	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.537	107	-	-	75-125	-	20
Copper, Total	ND	0.25	0.260	104	-	-	75-125	-	20
Iron, Total	0.016J	1	1.08	108	-	-	75-125	-	20
Lead, Total	ND	0.53	0.563	106	-	-	75-125	-	20
Magnesium, Total	5.57	10	15.3	97	-	-	75-125	-	20
Manganese, Total	0.102	0.5	0.597	99	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.504	101	-	-	75-125	-	20
Potassium, Total	7.92	10	18.7	108	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.133	111	-	-	75-125	-	20
Silver, Total	ND	0.05	0.0521	104	-	-	75-125	-	20
Sodium, Total	104	10	115	110	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.123	102	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.481	96	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010915-7		QC Sample: L2474304-02		Client ID: MS Sample		
Zinc, Total	0.019	0.5	0.557	108	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010924-3		QC Sample: L2474329-01		Client ID: MW-4S		
Mercury, Total	ND	0.005	0.00473	95	-	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG2010924-5		QC Sample: L2474329-02		Client ID: MW-4D2		
Mercury, Total	ND	0.005	0.00464	93	-	-	70-130	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2012440-3 QC Sample: L2473927-01 Client ID: MS Sample									
Aluminum, Dissolved	ND	2	2.20	110	-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.450	90	-	-	75-125	-	20
Arsenic, Dissolved	ND	0.12	0.121	101	-	-	75-125	-	20
Barium, Dissolved	0.260	2	2.33	104	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.0503	101	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.0520	98	-	-	75-125	-	20
Calcium, Dissolved	43.3	10	52.7	94	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.199	100	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.495	99	-	-	75-125	-	20
Copper, Dissolved	0.024	0.25	0.284	104	-	-	75-125	-	20
Iron, Dissolved	ND	1	0.988	99	-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.554	104	-	-	75-125	-	20
Magnesium, Dissolved	5.23	10	15.0	98	-	-	75-125	-	20
Manganese, Dissolved	ND	0.5	0.489	98	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.481	96	-	-	75-125	-	20
Potassium, Dissolved	1.54J	10	12.9	129	Q	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.121	101	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.0519	104	-	-	75-125	-	20
Sodium, Dissolved	13.3	10	24.5	112	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.127	106	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.528	106	-	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2012440-3 QC Sample: L2473927-01 Client ID: MS Sample									
Zinc, Dissolved	0.020	0.5	0.492	94	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2012440-7 QC Sample: L2473893-07 Client ID: MS Sample									
Aluminum, Dissolved	ND	2	2.26	113	-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.435	87	-	-	75-125	-	20
Arsenic, Dissolved	0.0040J	0.12	0.126	105	-	-	75-125	-	20
Barium, Dissolved	0.0034J	2	2.12	106	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.0519	104	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.0543	102	-	-	75-125	-	20
Calcium, Dissolved	18.2	10	27.8	96	-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.206	103	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.512	102	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.270	108	-	-	75-125	-	20
Iron, Dissolved	0.0098J	1	1.05	105	-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.561	106	-	-	75-125	-	20
Magnesium, Dissolved	6.54	10	16.6	101	-	-	75-125	-	20
Manganese, Dissolved	0.0174	0.5	0.521	101	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.500	100	-	-	75-125	-	20
Potassium, Dissolved	1.61J	10	13.2	132	Q	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.127	106	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.0535	107	-	-	75-125	-	20
Sodium, Dissolved	17.3	10	28.4	111	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.131	109	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.544	109	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2012440-7 QC Sample: L2473893-07 Client ID: MS Sample									
Zinc, Dissolved	0.013	0.5	0.514	100	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2012441-3 QC Sample: L2474329-01 Client ID: MW-4S									
Mercury, Dissolved	0.00009J	0.005	0.00462	92	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010915-4 QC Sample: L2474304-01 Client ID: DUP Sample						
Vanadium, Total	0.0104	0.0099J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010915-8 QC Sample: L2474304-02 Client ID: DUP Sample						
Vanadium, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010924-4 QC Sample: L2474329-01 Client ID: MW-4S						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2010924-6 QC Sample: L2474329-02 Client ID: MW-4D2						
Mercury, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2012440-4 QC Sample: L2473927-01 Client ID: DUP Sample						
Calcium, Dissolved	43.3	44.1	mg/l	2		20
Iron, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	5.23	5.30	mg/l	1		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2012440-8 QC Sample: L2473893-07 Client ID: DUP Sample					
Antimony, Dissolved	ND	ND	mg/l	NC	20
Arsenic, Dissolved	0.0040J	0.0033J	mg/l	NC	20
Barium, Dissolved	0.0034J	0.0034J	mg/l	NC	20
Calcium, Dissolved	18.2	18.1	mg/l	1	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	0.0098J	ND	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	6.54	6.51	mg/l	0	20
Manganese, Dissolved	0.0174	0.0173	mg/l	1	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG2012441-4 QC Sample: L2474329-01 Client ID: MW-4S					
Mercury, Dissolved	0.00009J	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2474329-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:00	121,2320B	MKT
Alkalinity, Bicarbonate	28.7		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:00	121,2320B	MKT
Solids, Total Dissolved	200		mg/l	13	4.0	1.3	-	12/23/24 02:38	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/21/24 04:14	121,2540D	MRM
Chloride	74.		mg/l	1.0	0.89	1	-	12/23/24 17:36	121,4500CL-E	JER
Fluoride	0.02	J	mg/l	0.20	0.01	1	12/22/24 05:18	12/22/24 10:15	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/18/24 06:03	121,4500NO3-F	KAF
Nitrogen, Nitrate	3.50		mg/l	0.100	0.022	1	-	12/18/24 06:03	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	3.5		mg/l	0.10	0.046	1	-	12/18/24 06:03	121,4500NO3-F	KAF
Total Nitrogen	3.5		mg/l	0.30	0.30	1	-	12/26/24 16:50	107,-	JRO
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.066	1	12/24/24 18:00	12/26/24 16:08	4,351.1	AT
Phosphate, Total	0.034		mg/l	0.031	0.012	1	12/23/24 13:30	12/23/24 15:34	121,4500P-E(M)	MEF
Sulfate	7.5	J	mg/l	10	1.4	1	12/22/24 12:00	12/22/24 12:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.034	J	mg/l	0.050	0.013	1	-	12/19/24 15:07	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2474329-02

Date Collected: 12/16/24 11:50

Client ID: MW-4D2

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:02	121,2320B	MKT
Alkalinity, Bicarbonate	25.8		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:02	121,2320B	MKT
Solids, Total Dissolved	110		mg/l	13	4.0	1.3	-	12/23/24 02:38	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/21/24 04:14	121,2540D	MRM
Chloride	12.		mg/l	1.0	0.89	1	-	12/23/24 19:17	121,4500CL-E	JER
Fluoride	0.04	J	mg/l	0.20	0.01	1	12/22/24 05:18	12/22/24 10:15	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/18/24 06:11	121,4500NO3-F	KAF
Nitrogen, Nitrate	2.16		mg/l	0.100	0.022	1	-	12/18/24 06:11	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	2.2		mg/l	0.10	0.046	1	-	12/18/24 06:11	121,4500NO3-F	KAF
Total Nitrogen	2.2		mg/l	0.30	0.30	1	-	12/26/24 16:50	107,-	JRO
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.066	1	12/24/24 18:00	12/26/24 16:09	4,351.1	AT
Phosphate, Total	0.071		mg/l	0.031	0.012	1	12/23/24 13:30	12/23/24 15:35	121,4500P-E(M)	MEF
Sulfate	17.		mg/l	10	1.4	1	12/22/24 12:00	12/22/24 12:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.046	J	mg/l	0.050	0.013	1	-	12/19/24 15:19	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2474329-03

Date Collected: 12/16/24 08:45

Client ID: MW-12S

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:04	121,2320B	MKT
Alkalinity, Bicarbonate	16.9		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:04	121,2320B	MKT
Solids, Total Dissolved	220		mg/l	13	4.0	1.3	-	12/20/24 15:45	121,2540C	SMD
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/21/24 04:14	121,2540D	MRM
Chloride	85.		mg/l	1.0	0.89	1	-	12/23/24 17:42	121,4500CL-E	JER
Fluoride	0.03	J	mg/l	0.20	0.01	1	12/22/24 05:18	12/22/24 10:15	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/18/24 06:12	121,4500NO3-F	KAF
Nitrogen, Nitrate	2.40		mg/l	0.100	0.022	1	-	12/18/24 06:12	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	2.4		mg/l	0.10	0.046	1	-	12/18/24 06:12	121,4500NO3-F	KAF
Total Nitrogen	2.4		mg/l	0.30	0.30	1	-	12/26/24 16:50	107,-	JRO
Nitrogen, Total Kjeldahl	0.138	J	mg/l	0.300	0.066	1	12/24/24 18:00	12/26/24 16:10	4,351.1	AT
Phosphate, Total	0.037		mg/l	0.031	0.012	1	12/23/24 13:30	12/23/24 15:38	121,4500P-E(M)	MEF
Sulfate	11.		mg/l	10	1.4	1	12/22/24 12:00	12/22/24 12:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.013	1	-	12/19/24 15:55	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2474329-04

Date Collected: 12/16/24 09:33

Client ID: MW-12D

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:05	121,2320B	MKT
Alkalinity, Bicarbonate	26.7		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:05	121,2320B	MKT
Solids, Total Dissolved	100		mg/l	13	4.0	1.3	-	12/23/24 02:38	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/21/24 04:14	121,2540D	MRM
Chloride	18.		mg/l	1.0	0.89	1	-	12/23/24 17:43	121,4500CL-E	JER
Fluoride	0.03	J	mg/l	0.20	0.01	1	12/22/24 05:18	12/22/24 10:15	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/18/24 06:14	121,4500NO3-F	KAF
Nitrogen, Nitrate	4.38		mg/l	0.100	0.022	1	-	12/18/24 06:14	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	4.4		mg/l	0.10	0.046	1	-	12/18/24 06:14	121,4500NO3-F	KAF
Total Nitrogen	4.4		mg/l	0.30	0.30	1	-	12/26/24 16:50	107,-	JRO
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.066	1	12/24/24 18:00	12/26/24 16:11	4,351.1	AT
Phosphate, Total	0.022	J	mg/l	0.031	0.012	1	12/23/24 13:30	12/23/24 15:39	121,4500P-E(M)	MEF
Sulfate	16.		mg/l	10	1.4	1	12/22/24 12:00	12/22/24 12:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.060		mg/l	0.050	0.013	1	-	12/19/24 16:08	44,300.0	CVN



Project Name: CORAM MATERIALS

Lab Number: L2474329

Project Number: 2232.0006Y005

Report Date: 01/27/25

SAMPLE RESULTS

Lab ID: L2474329-05

Date Collected: 12/16/24 12:00

Client ID: EB-12162024

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD

Field Prep: Refer to COC

Sample Depth:

Matrix: Equipment Blank

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:07	121,2320B	MKT
Alkalinity, Bicarbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 10:07	121,2320B	MKT
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/23/24 02:38	121,2540C	DEW
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/21/24 04:14	121,2540D	MRM
Chloride	ND		mg/l	1.0	0.89	1	-	12/23/24 17:44	121,4500CL-E	JER
Fluoride	ND		mg/l	0.20	0.01	1	12/22/24 05:18	12/22/24 10:15	121,4500F-BC	DTH
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/18/24 06:15	121,4500NO3-F	KAF
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	12/18/24 06:15	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	12/18/24 06:15	121,4500NO3-F	KAF
Total Nitrogen	ND		mg/l	0.30	0.30	1	-	12/26/24 16:50	107,-	JRO
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.066	1	12/24/24 18:00	12/26/24 16:12	4,351.1	AT
Phosphate, Total	0.015	J	mg/l	0.031	0.012	1	12/23/24 13:30	12/23/24 15:40	121,4500P-E(M)	MEF
Sulfate	1.8	J	mg/l	10	1.4	1	12/22/24 12:00	12/22/24 12:00	121,4500SO4-E	MRW
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.013	1	-	12/19/24 16:20	44,300.0	CVN



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474329
Report Date: 01/27/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2010531-1										
Nitrogen, Nitrite	ND		mg/l	0.050	0.013	1	-	12/18/24 03:23	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2010532-1										
Nitrogen, Nitrate	ND		mg/l	0.100	0.022	1	-	12/18/24 03:30	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2010533-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	12/18/24 03:30	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2011253-1										
Alkalinity, Carbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:15	121,2320B	MKT
Alkalinity, Bicarbonate	ND		mg CaCO3/L	2.00	NA	1	-	12/19/24 09:15	121,2320B	MKT
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05 Batch: WG2011341-1										
Bromide	ND		mg/l	0.050	0.013	1	-	12/19/24 09:19	44,300.0	CVN
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2011858-1										
Phosphate, Total	ND		mg/l	0.031	0.012	1	12/23/24 13:30	12/23/24 15:15	121,4500P-E(M)	MEF
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG2011954-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/20/24 15:45	121,2540C	SMD
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2012096-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/21/24 04:14	121,2540D	MRM
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2012301-1										
Fluoride	ND		mg/l	0.20	0.01	1	12/22/24 05:18	12/22/24 10:15	121,4500F-BC	DTH
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2012370-1										
Sulfate	1.8	J	mg/l	10	1.4	1	12/22/24 12:00	12/22/24 12:00	121,4500SO4-E	MRW
General Chemistry - Westborough Lab for sample(s): 01-02,04-05 Batch: WG2012514-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	12/23/24 02:38	121,2540C	DEW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2012790-1										
Chloride	ND		mg/l	1.0	0.89	1	-	12/23/24 16:48	121,4500CL-E	JER
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2013217-1										
Nitrogen, Total Kjeldahl	0.202	J	mg/l	0.300	0.022	1	12/24/24 18:00	12/26/24 15:53	4,351.1	AT



Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2010531-2								
Nitrogen, Nitrite	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2010532-2								
Nitrogen, Nitrate	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2010533-2								
Nitrogen, Nitrate/Nitrite	96		-		90-110	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 Batch: WG2011341-2								
Bromide	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2011858-2								
Phosphate, Total	101		-		84-118	-		
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG2011954-2								
Solids, Total Dissolved	100		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2012096-2								
Solids, Total Suspended	96		-		80-120	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2012301-2					
Fluoride	88	-	78-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2012370-2					
Sulfate	100	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-05 Batch: WG2012514-2					
Solids, Total Dissolved	90	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2012790-2					
Chloride	97	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG2013217-2					
Nitrogen, Total Kjeldahl	104	-	78-122	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2010531-4			QC Sample: L2474329-01			Client ID: MW-4S		
Nitrogen, Nitrite	ND	4	3.96	99		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2010532-4			QC Sample: L2474329-01			Client ID: MW-4S		
Nitrogen, Nitrate	3.50	4	7.11	90		-	-		83-113	-		17
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2010533-4			QC Sample: L2474329-01			Client ID: MW-4S		
Nitrogen, Nitrate/Nitrite	3.5	4	7.1	90		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05					QC Batch ID: WG2011341-3		WG2011341-4		QC Sample: L2474615-19			
Client ID: MS Sample												
Bromide	0.037J	0.4	0.351	88	Q	0.350	88	Q	90-110	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2011858-4			QC Sample: L2474281-01			Client ID: MS Sample		
Phosphate, Total	0.083	1.53	1.64	102		-	-		80-120	-		15
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2012301-4			QC Sample: L2474329-01			Client ID: MW-4S		
Fluoride	0.02J	1	0.98	98		-	-		69-124	-		13
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2012370-4			QC Sample: L2473756-01			Client ID: MS Sample		
Sulfate	1500	2000	3700	109		-	-		55-147	-		14
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2012790-4			QC Sample: L2474329-01			Client ID: MW-4S		
Chloride	74.	20	89	75		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-05				QC Batch ID: WG2013217-4			QC Sample: L2474303-02			Client ID: MS Sample		
Nitrogen, Total Kjeldahl	0.633	8	9.24	108		-	-		77-111	-		24

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2010531-3 QC Sample: L2474329-01 Client ID: MW-4S						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2010532-3 QC Sample: L2474329-01 Client ID: MW-4S						
Nitrogen, Nitrate	3.50	3.50	mg/l	0		17
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2010533-3 QC Sample: L2474329-01 Client ID: MW-4S						
Nitrogen, Nitrate/Nitrite	3.5	3.5	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2011253-2 QC Sample: L2473538-01 Client ID: DUP Sample						
Alkalinity, Carbonate	ND	ND	mg CaCO3/L	NC		10
Alkalinity, Bicarbonate	96.3	98.6	mg CaCO3/L	2		9
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2011858-3 QC Sample: L2474281-01 Client ID: DUP Sample						
Phosphate, Total	0.083	0.098	mg/l	17	Q	15
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG2011954-3 QC Sample: L2473429-02 Client ID: DUP Sample						
Solids, Total Dissolved	120	98	mg/l	20	Q	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2012096-3 QC Sample: L2469027-44 Client ID: DUP Sample						
Solids, Total Suspended	270	260	mg/l	4		32
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2012096-4 QC Sample: L2469027-45 Client ID: DUP Sample						
Solids, Total Suspended	260	290	mg/l	11		32

Lab Duplicate Analysis

Batch Quality Control

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474329

Report Date: 01/27/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2012301-3 QC Sample: L2474329-01 Client ID: MW-4S					
Fluoride	0.02J	0.02J	mg/l	NC	13
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2012370-3 QC Sample: L2473756-01 Client ID: DUP Sample					
Sulfate	1500	1500	mg/l	0	14
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-05 QC Batch ID: WG2012514-3 QC Sample: L2474329-01 Client ID: MW-4S					
Solids, Total Dissolved	200	170	mg/l	16 Q	10
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-05 QC Batch ID: WG2012514-4 QC Sample: L2474329-02 Client ID: MW-4D2					
Solids, Total Dissolved	110	64	mg/l	53 Q	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2012790-3 QC Sample: L2474329-01 Client ID: MW-4S					
Chloride	74.	74	mg/l	0	7
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG2013217-3 QC Sample: L2474303-02 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	0.633	0.783	mg/l	21	24

Project Name: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal

A	Absent

B	Absent

C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2474329-01A	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-01B	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-01C	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-01D	Amber 100ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-01E	Amber 100ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-01F	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),K-RI(180),SE-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),SB-RI(180),CO-RI(180),CU-RI(180),BA-RI(180),CA-RI(180),AG-RI(180),CR-RI(180),HG-R(28),NI-RI(180),AS-RI(180),NA-RI(180),PB-RI(180),V-RI(180),CD-RI(180)
L2474329-01G	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Absent		BA-UI(180),SB-UI(180),NI-UI(180),AG-UI(180),ZN-UI(180),CA-UI(180),K-UI(180),CO-UI(180),FE-UI(180),MG-UI(180),SE-UI(180),HG-U(28),CD-UI(180),MN-UI(180),AL-UI(180),BE-UI(180),CR-UI(180),NA-UI(180),CU-UI(180),PB-UI(180),TL-UI(180),AS-UI(180),V-UI(180)
L2474329-01H	Plastic 250ml unpreserved/No Headspace	A	NA		2.0	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2474329-01J	Plastic 250ml unpreserved	A	7	7	2.0	Y	Absent		SUB-IODIDE(7)
L2474329-01K	Amber 250ml unpreserved	A	7	7	2.0	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2474329-01L	Amber 250ml unpreserved	A	7	7	2.0	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2474329-01M	Plastic 500ml H2SO4 preserved	A	<2	<2	2.0	Y	Absent		SUB-AMMONIUM(28)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2474329-01N	Amber 950ml H2SO4 preserved	A	<2	<2	2.0	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2474329-01O	Plastic 950ml unpreserved	A	7	7	2.0	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2474329-01P	Plastic 950ml unpreserved	A	7	7	2.0	Y	Absent		TSS-2540(7)
L2474329-02A	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-02B	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-02C	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-02D	Amber 100ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-02E	Amber 100ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-02F	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Absent		FE-RI(180),ZN-RI(180),K-RI(180),SE-RI(180),BE-RI(180),AL-RI(180),MG-RI(180),MN-RI(180),TL-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),CR-RI(180),NI-RI(180),AG-RI(180),HG-R(28),NA-RI(180),PB-RI(180),V-RI(180),AS-RI(180),CD-RI(180)
L2474329-02G	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Absent		NI-UI(180),SB-UI(180),BA-UI(180),AG-UI(180),ZN-UI(180),CA-UI(180),CO-UI(180),K-UI(180),FE-UI(180),SE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),CR-UI(180),NA-UI(180),AL-UI(180),BE-UI(180),MN-UI(180),PB-UI(180),CU-UI(180),TL-UI(180),V-UI(180),AS-UI(180)
L2474329-02H	Plastic 250ml unpreserved/No Headspace	A	NA		2.0	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2474329-02J	Plastic 250ml unpreserved	A	7	7	2.0	Y	Absent		SUB-IODIDE(7)
L2474329-02M	Plastic 500ml H2SO4 preserved	A	<2	<2	2.0	Y	Absent		SUB-AMMONIUM(28)
L2474329-02N	Amber 950ml H2SO4 preserved	A	<2	<2	2.0	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2474329-02O	Plastic 950ml unpreserved	A	7	7	2.0	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),BR-300(28),TDS-2540(7)
L2474329-02P	Plastic 950ml unpreserved	A	7	7	2.0	Y	Absent		TSS-2540(7)
L2474329-03A	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2474329-03B	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-03C	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-03D	Amber 100ml unpreserved	C	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-03E	Amber 100ml unpreserved	C	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-03F	Plastic 250ml HNO3 preserved	C	<2	<2	2.0	Y	Absent		FE-RI(180),ZN-RI(180),SE-RI(180),BE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),MN-RI(180),TL-RI(180),SB-RI(180),CO-RI(180),CU-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),CR-RI(180),AG-RI(180),HG-R(28),AS-RI(180),NA-RI(180),V-RI(180),CD-RI(180),PB-RI(180)
L2474329-03G	Plastic 250ml HNO3 preserved	C	<2	<2	2.0	Y	Absent		BA-UI(180),NI-UI(180),SB-UI(180),ZN-UI(180),AG-UI(180),CA-UI(180),CO-UI(180),K-UI(180),SE-UI(180),MG-UI(180),FE-UI(180),HG-U(28),CD-UI(180),MN-UI(180),CR-UI(180),NA-UI(180),AL-UI(180),BE-UI(180),CU-UI(180),AS-UI(180),PB-UI(180),TL-UI(180),V-UI(180)
L2474329-03H	Plastic 250ml unpreserved/No Headspace	C	NA		2.0	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2474329-03J	Plastic 250ml unpreserved	C	7	7	2.0	Y	Absent		SUB-IODIDE(7)
L2474329-03M	Plastic 500ml H2SO4 preserved	C	<2	<2	2.0	Y	Absent		SUB-AMMONIUM(28)
L2474329-03N	Amber 950ml H2SO4 preserved	C	<2	<2	2.0	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2474329-03O	Plastic 950ml unpreserved	C	7	7	2.0	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2474329-03P	Plastic 950ml unpreserved	C	7	7	2.0	Y	Absent		TSS-2540(7)
L2474329-04A	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-04B	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-04C	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-04D	Amber 100ml unpreserved	C	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-04E	Amber 100ml unpreserved	C	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2474329-04F	Plastic 250ml HNO3 preserved	C	<2	<2	2.0	Y	Absent		FE-RI(180),ZN-RI(180),BE-RI(180),SE-RI(180),K-RI(180),MG-RI(180),AL-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),SB-RI(180),CU-RI(180),BA-RI(180),CA-RI(180),AG-RI(180),CR-RI(180),NI-RI(180),HG-R(28),PB-RI(180),CD-RI(180),AS-RI(180),NA-RI(180),V-RI(180)
L2474329-04G	Plastic 250ml HNO3 preserved	C	<2	<2	2.0	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),CA-UI(180),ZN-UI(180),AG-UI(180),CO-UI(180),K-UI(180),MG-UI(180),FE-UI(180),SE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),BE-UI(180),NA-UI(180),MN-UI(180),CR-UI(180),AS-UI(180),PB-UI(180),TL-UI(180),V-UI(180),CU-UI(180)
L2474329-04H	Plastic 250ml unpreserved/No Headspace	C	NA		2.0	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2474329-04J	Plastic 250ml unpreserved	C	7	7	2.0	Y	Absent		SUB-IODIDE(7)
L2474329-04M	Plastic 500ml H2SO4 preserved	C	<2	<2	2.0	Y	Absent		SUB-AMMONIUM(28)
L2474329-04N	Amber 950ml H2SO4 preserved	C	<2	<2	2.0	Y	Absent		TKN-351(28),TPO4-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2474329-04O	Plastic 950ml unpreserved	C	7	7	2.0	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2474329-04P	Plastic 950ml unpreserved	C	7	7	2.0	Y	Absent		TSS-2540(7)
L2474329-05A	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-05B	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-05D	Amber 100ml unpreserved	C	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-05E	Amber 100ml unpreserved	C	7	7	2.0	Y	Absent		NYTCL-8270-RVT(7),NYTCL-8270-SIM-RVT(7)
L2474329-05F	Plastic 250ml HNO3 preserved	C	<2	<2	2.0	Y	Absent		ZN-RI(180),FE-RI(180),BE-RI(180),SE-RI(180),K-RI(180),AL-RI(180),MG-RI(180),TL-RI(180),MN-RI(180),CO-RI(180),CU-RI(180),SB-RI(180),BA-RI(180),CA-RI(180),NI-RI(180),HG-R(28),AG-RI(180),CR-RI(180),CD-RI(180),NA-RI(180),PB-RI(180),AS-RI(180),V-RI(180)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2474329-05G	Plastic 250ml HNO3 preserved	C	<2	<2	2.0	Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),ZN-UI(180),AG-UI(180),CA-UI(180),K-UI(180),CO-UI(180),MG-UI(180),SE-UI(180),FE-UI(180),HG-U(28),CD-UI(180),AL-UI(180),MN-UI(180),BE-UI(180),CR-UI(180),NA-UI(180),CU-UI(180),TL-UI(180),AS-UI(180),PB-UI(180),V-UI(180)
L2474329-05H	Plastic 250ml unpreserved/No Headspace	C	NA		2.0	Y	Absent		ALK-HCO3-2320(14),ALK-CO3-2320(14)
L2474329-05J	Plastic 250ml unpreserved	C	7	7	2.0	Y	Absent		SUB-IODIDE(7)
L2474329-05M	Plastic 500ml H2SO4 preserved	C	<2	<2	2.0	Y	Absent		SUB-AMMONIUM(28)
L2474329-05N	Amber 950ml H2SO4 preserved	C	<2	<2	2.0	Y	Absent		TPO4-4500(28),TKN-351(28),NO3/NO2-4500(28),TNITROGEN(28)
L2474329-05O	Plastic 950ml unpreserved	C	7	7	2.0	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28),NO3-4500(2),NO2-4500NO3(2),TDS-2540(7),BR-300(28)
L2474329-05P	Plastic 950ml unpreserved	C	7	7	2.0	Y	Absent		TSS-2540(7)
L2474329-06A	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-06B	Vial HCl preserved	C	NA		2.0	Y	Absent		NYTCL-8260(14)
L2474329-07A	Plastic 950ml HNO3 preserved	NA	NA			Y	Absent		SUB-URANIUM(180)
L2474329-07B	Plastic 950ml HNO3 preserved	NA	NA			Y	Absent		SUB-THORIUM(180)
L2474329-07C	Plastic 950ml HNO3 preserved	NA	NA			Y	Absent		SUB-RA228(180),SUB-RA226(180)
L2474329-07D	Plastic 950ml HNO3 preserved	NA	NA			Y	Absent		SUB-RA228(180),SUB-RA226(180)

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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.

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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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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: CORAM MATERIALS**Lab Number:** L2474329**Project Number:** 2232.0006Y005**Report Date:** 01/27/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 107 Calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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Published Date: 01/24/2025

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Certification Information

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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**

Pace Analytical Services LLCID No.: **17873**Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: Certificate/Approval Program Summary

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

 ALPHA ANALYTICAL AND CHEMICAL	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 3	Date Rec'd in Lab <u>12/18/24</u>	L2474329 ROUX - NY 	13JAN25	
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288					
Client Information		Project Information		Deliverables			
Client: ROUX Env.Eng.&Geology, DPC		Project Name: CORAM MATERIALS		☐ ASP-A ☒ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File)		PO #	
Address: 209 Shafter Street		Project Location: 416 Miller Place-Yaphank Road		☐ Other			
Islandia, NY 11749-5074		Project # 2232.0006Y005		Regulatory Requirement		Disposal Site Information	
Phone: 631-232-2600		(Use Project name as Project #)		☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other		Please identify below location of applicable disposal facilities. Disposal Facility:	
Fax:		☒ Standard Due Date:		☐ NY Unrestricted Use ☐		☐ NJ ☐ NY	
Email: jmichaels@rouxinc.com		☐ Rush (only if pre approved) # of Days:		☐ NYC Sewer Discharge ☐		☐ Other:	
These samples have been previously analyzed by Alpha Other project specific requirements/comments: 2 of 3 VOA for 8260 Please specify Metals or TAL.				ANALYSIS		Sample Filtration	
				NYTCL-8260 NYTCL-8270/SIM-RVT TAL600/TAL-2007S TDS-2540 Cl-4500/Br-300 NO3-4500 NO2-4500 TOTAL NITROGEN (tkn 35)		☒ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	Sample Specific Comments		
14329-01	MW-4S	12/16/24 1100	AQ	AI	16		
02	MW-4D2	12/16/24 1150	AQ	AI	14		
03	MW-12S	12/16/24 0845	AQ	AI	14		
04	MW-12D	12/16/24 0933	AQ	AI	14		
05	EB-12162024	12/16/24 1200	AQ	AI	13		
06	TB-12162024	12/16/24 1210	AQ	LAB	2		
Preservative Code: A = None, B = HCl, C = HNO ₃ , D = H ₂ SO ₄ , E = NaOH, F = MeOH, G = NaHSO ₄ , H = Na ₂ S ₂ O ₃ , K/E = Zn Ac/NaOH, O = Other Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle Westboro: Certification No: MA935 Mansfield: Certification No: MA015							
		Relinquished By:		Date/Time	Received By:		
		Date/Time		Date/Time		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	
		Date/Time		Date/Time			
		Date/Time		Date/Time			

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Form No. MA93
Rev. No. MA93

Shed By

NEW YORK CHAIN OF CUSTODY		Page 3 of 3		Date Rec'd In Lab	ALPHA Job #		
Westborough, MA 01581 8 Walkup Dr. TEL: 508-868-0220 FAX: 508-868-0193 Stamford, MA 02064 320 Forbes Blvd TEL: 508-872-5300 FAX: 508-822-3288		Project Information Project Name: CORAM MATERIALS Project Location: Project #: 2232.0006Y005 (Use Project name as Project #) Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Standard Due Date: # of Days: Push (only if pre-approved):		Deliverables ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other ☐ Regulatory Requirement NY 1005 ☐ NY Fed 275 ☐ AWQ Standards ☐ NY CP-S1 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge ☐		Billing Information Same as Client Info ☐ PO # Disposal Site Information Please identify below location of applicable disposal facilities: Disposal Facility: ☐ NJ ☐ NY ☐ Other: ☐	
Client Information Client: ROUX Env. Eng. & Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jlmichaels@rouxinc.com		These samples have been previously analyzed by Alpha: Other project specific requirements/comments: Sub SULFIDE courier to PACE MELVILLE Please specify Metals or TAL:		ANALYSIS Sample Filtration Done ☐ Lab to do ☐ Preservation ☐ Lab to do ☐ (Please Specify Below) Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Sub-Sulfide	
14321-01	MW-45	12/16/24	1100	AQ	AI	X	
02	MW-452	12/16/24	1150	AQ	AI	X	
03	MW-12D	12/16/24	0933	AQ	AI	X	
04	MW-12S	12/16/24	0845	AQ	AI	X	
05	EB-12W2024	12/16/24	1200	AQ	AI	X	
Preservative Code:		Container Code		Westboro. Certification No: MA935		Container Type	
A = None		P = Plastic		Mansfield: Certification No: MA015		P	
B = HCl		A = Amber Glass				Preservative	
C = HNO ₃		V = Vial				C	
D = H ₂ SO ₄		G = Glass					
E = NaOH		B = Bacteria Cup					
F = MeOH		C = Cube					
G = NaHSO ₄		O = Other					
H = Na ₂ S ₂ O ₈		E = Encore					
K/E = Zn Ac/NaOH		D = BOD Bottle					
O = Other							
Form No. 01-25 (rev. 30-Sept-2013)		Relinquished By:		Date/Time	Received By:	Date/Time	
		A. Michaels		12/16/24	V. S. (Paw)	12/17/24	

Do not
Sign
to
Copy
Sent
to
Melville

Page 118 of 165



December 23, 2024

Jennifer Byrnes

,

RE: Project: L2474329
Pace Project No.: 70328584

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2474329
Pace Project No.: 70328584

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Texas Certification #: T104704582
Florida Certification #: E871198

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SAMPLE SUMMARY

Project: L2474329
Pace Project No.: 70328584

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70328584001	MW-4S	Water	12/16/24 11:00	12/17/24 09:15
70328584002	MW-4D2	Water	12/16/24 11:50	12/17/24 09:15
70328584003	MW-12S	Water	12/16/24 08:45	12/17/24 09:15
70328584004	MW-12D	Water	12/16/24 09:33	12/17/24 09:15
70328584005	EB-12162024	Water	12/16/24 12:00	12/17/24 09:15

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SAMPLE ANALYTE COUNT

Project: L2474329
Pace Project No.: 70328584

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70328584001	MW-4S	SM22 4500-S2 F	JWM	1
70328584002	MW-4D2	SM22 4500-S2 F	JWM	1
70328584003	MW-12S	SM22 4500-S2 F	JWM	1
70328584004	MW-12D	SM22 4500-S2 F	JWM	1
70328584005	EB-12162024	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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PROJECT NARRATIVE

Project: L2474329
Pace Project No.: 70328584

Method: SM22 4500-S2 F
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: December 23, 2024

General Information:

5 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2474329

Pace Project No.: 70328584

Sample: MW-4S		Lab ID: 70328584001		Collected: 12/16/24 11:00		Received: 12/17/24 09:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/23/24 15:01		

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ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: MW-4D2		Lab ID: 70328584002		Collected: 12/16/24 11:50		Received: 12/17/24 09:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/23/24 15:05		

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ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: MW-12S		Lab ID: 70328584003		Collected: 12/16/24 08:45		Received: 12/17/24 09:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/23/24 15:08		

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ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: MW-12D		Lab ID: 70328584004		Collected: 12/16/24 09:33		Received: 12/17/24 09:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/23/24 15:11		

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ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 70328584

Sample: EB-12162024		Lab ID: 70328584005		Collected: 12/16/24 12:00		Received: 12/17/24 09:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville							
Sulfide	<0.20	mg/L	2.0	0.20	1		12/23/24 15:15		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L2474329

Pace Project No.: 70328584

QC Batch: 376752

Analysis Method: SM22 4500-S2 F

QC Batch Method: SM22 4500-S2 F

Analysis Description: 4500S2F W Sulfide Iodometric

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70328584001, 70328584002, 70328584003, 70328584004, 70328584005

METHOD BLANK: 1975274

Matrix: Water

Associated Lab Samples: 70328584001, 70328584002, 70328584003, 70328584004, 70328584005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	12/23/24 14:55	

LABORATORY CONTROL SAMPLE & LCSD: 1975275

1975276

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2474329
Pace Project No.: 70328584

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2474329

Pace Project No.: 70328584

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70328584001	MW-4S	SM22 4500-S2 F	376752		
70328584002	MW-4D2	SM22 4500-S2 F	376752		
70328584003	MW-12S	SM22 4500-S2 F	376752		
70328584004	MW-12D	SM22 4500-S2 F	376752		
70328584005	EB-12162024	SM22 4500-S2 F	376752		

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W0#: 70328584



Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2474329

Page 1

Regulatory Requirements/Report Limits

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To: west.subreports@pacelabs.com
Bill To: invoices@pacelabs.couphost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

State/Federal Program:
Regulatory Criteria:

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2474329 Report to include Method and/or Regulatory required batch QC

Additional Comments: aSPB report needed/REPORT TO MDL, Package TAT= 1-2 Days after final report per Mike Miller/ NYS EQUIS EDD

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2474329-01 L2474329-02 L2474329-03 L2474329-04 L2474329-05	MW-4S MW-4D2 MW-12S MW-12D EB-12162024	12-16-24 11:00 12-16-24 11:50 12-16-24 08:45 12-16-24 09:33 12-16-24 12:00	WATER WATER WATER WATER WATER	Sulfide Sulfide Sulfide Sulfide Sulfide			0 0 0 0 0
Form No: AL_subcoc			Relinquished By:		Date/Time:	Received By:	Date/Time:	
						<i>M. W. D. J. D. A. E. C. U.</i>	<i>12/16/24 12:17:24</i>	
							<i>9:15</i>	

WU# : 10320304 PM: BDR CLIENT: ALPHA		Due Date: 12/27/24 TEL: 508-898-9220 FAX: 508-898-9193		Page 3 of 3		ALPHA Job #	
Client Information TEL: 508-898-9220 FAX: 508-898-9193		Project Name: CORAM MATERIALS Project Location: 2232.0006Y005		Deliverables ☐ ASP-A ☐ EQuIS (1 File) ☐ Other		Billing Information ☐ Same as Client Info PO #	
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jnmichaels@rouxinc.com		Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time ☒ Standard ☐ Rush (only if approved)		Regulatory Requirement ☐ NY TOGS ☐ AWQ Standards ☐ NY Restricted Use ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: NJ ☐ NY ☐ Other:	
These samples have been previously analyzed by Alpha Other project specific requirements/comments: Sub SULFIDE courier to PACE MELVILLE Please specify Metals or TAL.		ANALYSIS SUB-SULFIDE		Sample Filtration ☐ Done ☐ Lab to do ☐ Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix	
MW-4S		12/16/24 1100		AQ		Sample's Initials	
MW-4D2		12/16/24 1150		AQ		AT	
MW-12D		12/16/24 0933		AQ		AT	
MW-12S		12/16/24 0845		AQ		AT	
EB-12/16/2024		12/16/24 1200		AQ		AT	
Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Date/Time Received-By:	
Relinquished By:		Date/Time:		Date/Time:		Date/Time:	
Form No: 01-25 (rev. 30-Sept-2013)		Date: 12/17/24		Date: 12/17/24		Date: 12/17/24	

WO#: 70328584

Client Name:

ALPHA

Project #

PM: BDR

Due Date: 12/27/24

CLIENT: ALPHA

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pac ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ Non ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TH20 Correction Factor: 0.0 ☐ Samples on ice, cooling process has begun
Cooler Temperature (°C): 2.8 Cooler Temperature Corrected (°C): 2.8 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX,
or VA (check map)? ☐ Yes ☐ No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: MR 12/18

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6.
Rush Turn Around Time Requested ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	10.
Containers Intact: ☒ Yes ☐ No	11.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: SL ☒ WT ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation: MR 12/18

All containers needing preservation have been ☐ Yes ☐ No ☒ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	
Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	15. Positive for Sulfide? Y N
SM 4500 CN samples checked for sul ☐ Yes ☐ No ☒ N/A	
Lead Acetate Strips Lot #	
Headspace in ALK Bottle (>6mm): ☐ Yes ☐ No ☒ N/A	16.
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	17.
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



December 24, 2024

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2474329
Pace Project No.: 50390540

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2474329
Pace Project No.: 50390540

Pace Analytical Services Indianapolis	
7726 Moller Road, Indianapolis, IN 46268	Oklahoma Laboratory #: 9204
Illinois Accreditation #: 200074	Texas Certification #: T104704355
Indiana Drinking Water Laboratory #: C-49-06	Washington Dept of Ecology #: C1081
Kansas/TNI Certification #: E-10177	Wisconsin Laboratory #: 999788130
Kentucky UST Agency Interest #: 80226	USDA Foreign Soil Permit #: 525-23-13-23119
Kentucky WW Laboratory ID #: 98019	USDA Compliance Agreement #: IN-SL-22-001
Michigan Drinking Water Laboratory #9050	

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L2474329
Pace Project No.: 50390540

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50390540001	MW-4S	Water	12/16/24 11:00	12/19/24 09:20
50390540002	MW-4D2	Water	12/16/24 11:50	12/19/24 09:20
50390540003	MW-12S	Water	12/16/24 08:45	12/19/24 09:20
50390540004	MW-12D	Water	12/16/24 09:33	12/19/24 09:20
50390540005	EB-12162024	Water	12/16/24 12:00	12/19/24 09:20

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SAMPLE ANALYTE COUNT

Project: L2474329

Pace Project No.: 50390540

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50390540001	MW-4S	EPA 9056	DMP1	1
50390540002	MW-4D2	EPA 9056	DMP1	1
50390540003	MW-12S	EPA 9056	DMP1	1
50390540004	MW-12D	EPA 9056	DMP1	1
50390540005	EB-12162024	EPA 9056	DMP1	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 50390540

Sample: MW-4S		Lab ID: 50390540001		Collected: 12/16/24 11:00		Received: 12/19/24 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 11:49		

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ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 50390540

Sample: MW-4D2		Lab ID: 50390540002		Collected: 12/16/24 11:50		Received: 12/19/24 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 12:15		

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ANALYTICAL RESULTS

Project: L2474329
Pace Project No.: 50390540

Sample: MW-12S		Lab ID: 50390540003		Collected: 12/16/24 08:45		Received: 12/19/24 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC		Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 10:01		

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ANALYTICAL RESULTS

Project: L2474329

Pace Project No.: 50390540

Sample: MW-12D		Lab ID: 50390540004		Collected: 12/16/24 09:33		Received: 12/19/24 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 10:22		

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ANALYTICAL RESULTS

Project: L2474329

Pace Project No.: 50390540

Sample: EB-12162024		Lab ID: 50390540005		Collected: 12/16/24 12:00		Received: 12/19/24 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		12/20/24 10:43		

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QUALITY CONTROL DATA

Project: L2474329

Pace Project No.: 50390540

QC Batch: 824470

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 Iodide by IC

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50390540001, 50390540002, 50390540003, 50390540004, 50390540005

METHOD BLANK: 3773866

Matrix: Water

Associated Lab Samples: 50390540001, 50390540002, 50390540003, 50390540004, 50390540005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	12/19/24 20:57	

LABORATORY CONTROL SAMPLE: 3773867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773868 3773869

Parameter	Units	50390319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	5.0	5.0	101	101	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2474329
Pace Project No.: 50390540

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2474329

Pace Project No.: 50390540

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50390540001	MW-4S	EPA 9056	824470		
50390540002	MW-4D2	EPA 9056	824470		
50390540003	MW-12S	EPA 9056	824470		
50390540004	MW-12D	EPA 9056	824470		
50390540005	EB-12162024	EPA 9056	824470		

REPORT OF LABORATORY ANALYSIS

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WO# : 50390540  50390540		Subcontract Chain of Custody Pace Analytical (Indianapolis, IN) 7726 Moller Road Indianapolis, IN 46268			Pace Job Number L2474329 Page 1				
Project Information									
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupa.com Phone: 716.427.5228 Email: Jennifer.Bymes@pacelabs.com		Project Location: NY Project Manager: Jennifer Bymes		State/Federal Program: Regulatory Criteria: Report to MDL					
Turnaround & Deliverables Information		Due Date: Deliverables: ASP Category B Deliverables							
Project Specific Requirements and/or Report Requirements									
Reference following Pace Job Number on final report/deliverables: L2474329 Report to include Method and/or Regulatory required batch QC.									
Additional Comments: L4 report needed/REPORT TO MDL/needs L4 and EDD 265 NY EQUIS									
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count	
001 002 003 004 005	L2474329-01	MW-4S	12-16-24 11:00	WATER	Iodide			1	
	L2474329-02	MW-4D2	12-16-24 11:50	WATER	Iodide			1	
	L2474329-03	MW-12S	12-16-24 08:45	WATER	Iodide			1	
	L2474329-04	MW-12D	12-16-24 09:33	WATER	Iodide			1	
	L2474329-05	EB-12162024	12-16-24 12:00	Equipment Blank	Iodide			1	
		Relinquished By:		Date/Time:		Received By:		Date/Time:	
		C. E. Levan		12/19/24 9:20		Fed ex Tatiana Schellen Pace		12/19/24 9:20	
		Fed ex							
Form No: AL-subcoc									



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

12/19/24 13:35 TS

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I2. **Cooler Temperature(s):**

0.3/0.3

Initial/Corrected)

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. **Courier:** Fed Ex UPS Client Pace Now/Jett Other

Circle One

4. **Custody Seal on Cooler/Box Present:** ☒ Yes ☐ No5. **Seals Intact:** ☒ Yes ☐ No (leave blank if no seals were present)5. **Packing Material:**☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other _____6. **Ice Type:** ☒ Wet ☐ Blue ☐ None7. **Was the PM notified of out of temp cooler?** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
1. Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED? Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			/
2. Short Hold Time Analysis (48 hours or less)?		/				
3. 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
4. TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
5. Custody Signatures Present?	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
6. Containers Intact?	/		Trip Blank Present?		/	
7. Sample Label (IDs/Dates/Times) Match COC? Exempt TCs, which only require sample ID	/		Trip Blank Custody Seals?			/
8. Extra labels on Terracore Vials? (soils only)			Out Of Temp Instructions if applicable:			

COMMENTS:

Container Codes

Page 149 of 165

Laboratory Report

Report prepared for:

Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581

Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:

Debbie S Robertson

Purchase Order:**For further assistance, contact:**

Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2474329 MW-4S		Received: 2024-12-19			
Lab ID: 2024-V-3007					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.95 mg	2025-01-03

Sample: L2474329 MW-4D2		Received: 2024-12-19			
Lab ID: 2024-V-3008					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.10 mg	2025-01-03

Sample: L2474329 MW-12S		Received: 2024-12-19			
Lab ID: 2024-V-3009					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.55 mg	2025-01-03

Sample: L2474329 MW-12D		Received: 2024-12-19			
Lab ID: 2024-V-3010					

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.60 mg	2025-01-03

Copyright 2025 Galbraith Laboratories, Inc.

Reported results are only applicable to the item tested.

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Sample: L2474329 EB-12162024					
Lab ID: 2024-V-3011		Received: 2024-12-19			
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	204.14 mg	2025-01-03

Signatures:

Published By: Debbie.S.Robertson
Created By: Debbie.S.Robertson

2025-01-06T21:37:23.833-05:00
2025-01-06T21:37:03.723-05:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.



January 22, 2025

Jennifer Byrnes
Pace Westborough
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2474329
Pace Project No.: 30744232

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

(Greensburg, PA) - Revision 1- This report replaces the 1/10/25 report. This project was revised on 1/22/25 to correct a sample ID.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Customer Service, Alpha Analytical



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2474329
Pace Project No.: 30744232

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L2474329
Pace Project No.: 30744232

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30744232001	L2474329-07 MW-4S_R	Water	12/16/24 11:00	12/20/24 10:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L2474329
Pace Project No.: 30744232

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30744232001	L2474329-07 MW-4S_R	EPA 903.1	REH1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		HSL-300	JJY	6	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2474329

Pace Project No.: 30744232

Sample: L2474329-07 MW-4S_R Lab ID: 30744232001 Collected: 12/16/24 11:00 Received: 12/20/24 10:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.415 ± 0.311 (0.161) C:NA T:96%	pCi/L	01/02/25 14:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.541 ± 0.341 (0.625) C:79% T:94%	pCi/L	01/09/25 14:21	15262-20-1	
Pace Analytical Services - Greensburg						
Thorium-228	HSL-300	0.171 ± 0.210 (0.406) C:NA T:79%	pCi/L	01/02/25 14:43	14274-82-9	
Thorium-230	HSL-300	-0.008 ± 0.113 (0.156) C:NA T:79%	pCi/L	01/02/25 14:43	14269-63-7	
Thorium-232	HSL-300	0.000 ± 0.113 (0.085) C:NA T:79%	pCi/L	01/02/25 14:43	7440-29-1	
Uranium-234	HSL-300	0.181 ± 0.147 (0.164) C:NA T:91%	pCi/L	01/02/25 14:42	13966-29-5	
Uranium-235	HSL-300	0.091 ± 0.131 (0.215) C:NA T:91%	pCi/L	01/02/25 14:42	15117-96-1	
Uranium-238	HSL-300	0.063 ± 0.100 (0.184) C:NA T:91%	pCi/L	01/02/25 14:42		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2474329

Pace Project No.: 30744232

QC Batch: 717408

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30744232001

METHOD BLANK: 3494851

Matrix: Water

Associated Lab Samples: 30744232001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.897 ± 0.417 (0.690) C:78% T:88%	pCi/L	01/09/25 14:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2474329

Pace Project No.: 30744232

QC Batch: 717407

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30744232001

METHOD BLANK: 3494850

Matrix: Water

Associated Lab Samples: 30744232001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.228 ± 0.210 (0.124) C:NA T:98%	pCi/L	01/02/25 14:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2474329

Pace Project No.: 30744232

QC Batch: 717837

Analysis Method: HSL-300

QC Batch Method: HSL-300

Analysis Description: HSL300(AS) Actinides

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30744232001

METHOD BLANK: 3496643

Matrix: Water

Associated Lab Samples: 30744232001

Parameter	Act ± Unc (MDC) Carr Trac		Units	Analyzed	Qualifiers
Thorium-228	0.056 ± 0.183	(0.434) C:NA T:76%	pCi/L	01/02/25 14:43	
Thorium-230	-0.008 ± 0.117	(0.162) C:NA T:76%	pCi/L	01/02/25 14:43	
Thorium-232	0.000 ± 0.117	(0.088) C:NA T:76%	pCi/L	01/02/25 14:43	
Uranium-234	0.026 ± 0.115	(0.250) C:NA T:79%	pCi/L	01/02/25 14:42	
Uranium-235	0.000 ± 0.150	(0.113) C:NA T:79%	pCi/L	01/02/25 14:42	
Uranium-238	0.041 ± 0.115	(0.213) C:NA T:79%	pCi/L	01/02/25 14:42	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2474329
Pace Project No.: 30744232

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2474329

Pace Project No.: 30744232

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30744232001	L2474329-07 MW-4S_R	EPA 903.1	717407		
30744232001	L2474329-07 MW-4S_R	EPA 904.0	717408		
30744232001	L2474329-07 MW-4S_R	HSL-300	717837		

REPORT OF LABORATORY ANALYSIS

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WO#: 30744232



30744232



Chain of Custody

lytical (Greensburg, PA)
eytown Rd, Suite 2
Greensburg, PA 15601

Pace Job Number
L2474329

Page 1 of 2

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019
Report To: west.subreports@pacelabs.com
Bill To: invoices@pacelabs.coupahost.com
Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2474329 Report to include Method and/or Regulatory required batch QC

Additional Comments: NEEDS NYDEC EDD, ASPB/L4 Deliverables/Report to MDL/RA 226 by 903.1, RA 228 by 904.0, Thorium by HASL 300, Uranium by HASL 300

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2474329-07	MW-4S-R	12-16-24 11:00	WATER WATER WATER WATER	Radium 226 Radium 228 Thorium Uranium by EPA 200.8	RA 226 by 903.1 RA 228 by 904.0 Thorium by HASL 300 Uranium by HASL 300		2 2 1 1
Received by Pace Greensburg Therm ID 14 Corr Factor +1.04 Receipt Temp 3.5 Correct Temp 3.1 Correct Preservation DIN								
Relinquished By:			Date/Time:	Received By:		Date/Time:		
<i>[Signature]</i>			12/18/24 17:45	<i>[Signature]</i>		12/18/24 1745		
<i>[Signature]</i>			12/18/24 22:00	Pace 22:20		12-18-24		
<i>[Signature]</i>			12-19-24 02:45	<i>[Signature]</i>		12/19/24		
<i>[Signature]</i>			12/19/24 16:50	<i>[Signature]</i>		12-19-24 1730		
<i>[Signature]</i>			12-19-24 1950	<i>[Signature]</i>		12-20-24 0900		
<i>[Signature]</i>				<i>[Signature]</i>		12-20-24 1055		

Form No: AL_subc

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name:

Street Address:

Contact/Report To:

Phone #:

E-Mail:

Cc E-Mail:

Invoice to:

Invoice E-Mail:

Purchase Order # (if applicable):

Quote #:

Country/State origin of sample(s):

Regulatory Program (DW, RCRA, etc.) as applicable:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

Date Deliverables:

[] Level II [] Level III [] Level IV

[] EQUIS

[] Other

Rush (Pre-approval required):

[] Same Day [] 1 Day [] 2 Day [] 3 Day Other

Date Results Requested:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (PL), Soil/Solid (SS), Oil (OL), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CA), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID

Matrix:

Comp / Grab

Date

Time

Composite Start

Date

Time

Collected or Composite End

Date

Time

Cont.

Residual Chlorine

Result

Units

Reportable [] Yes [] No

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [] Yes [] No

Analysis:

Tissue (TS), Biossary (B), Vapor (V), Surface Water (SW), Sediment (SED),

Product (PL), Soil/Solid (SS), Oil (OL), Wipe (WP),

Tissue (TS), Biossary (B), Vapor (V), Surface Water (SW), Sediment (SED),

Product (PL), Soil/Solid (SS), Oil (OL), Wipe (WP),

Tissue (TS), Biossary (B), Vapor (V), Surface Water (SW), Sediment (SED),

Product (PL), Soil/Solid (SS), Oil (OL), Wipe (WP),

Tissue (TS), Biossary (B), Vapor (V), Surface Water (SW), Sediment (SED),

WO#: 30744232

PM: SCR

Due Date: 01/14/25

CLIENT: ALPHA ANALYT

Specify Container Size **

Identify Container Preservative Type**

Analysis Requested

Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Hydroxide, (9) Ascorbic Acid, (10) MeOH, (11) Other

Proj. Mgr:

Account / Client ID:

Table #:

Profile / Template:

Prodg / Bottle Ord. ID:

Sample Comment

Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:

Coolers:

Thermometer ID:

Correction Factor (°C):

Obs. Temp. (°C):

Corrected Temp. (°C):

I On Ice

Tracking Number:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Delivered By: [] In-Person [] Courier

[] FedEx [] UPS [] Other

Page: 2 of 2

ENV-FRM-CORQ-0019_v02_110123 ©

	DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt- Greensburg	WO#: 30744232
	Effective Date: 01/04/2024	PM: SCR Due Date: 01/14/25 CLIENT: ALPHA ANALYT

Client Name: Alpha

Initial/ Date

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking Number: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ NoThermometer Used: 19Type of Ice: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☒ NoExamined By: PS 12/20/24Labeled By: PS 12/20/24Temped By: PS 12/20/24Cooler Temperature: Observed Temp 3.5 °CCorrection Factor: -0.4 °CFinal Temp: 3.1 °C

Temp should be above freezing to 6°C

pH paper Lot#

1001041

D.P.D. Residual Chlorine Lot #

Comments:	Yes	No	NA	
Chain of Custody Present	☒	☐	☐	1.
Chain of Custody Filled Out:	☒	☐	☐	2.
-Were client corrections present on COC	☒	☐	☐	3.
Chain of Custody Relinquished	☒	☐	☐	4.
Sampler Name & Signature on COC:	☒	☐	☐	5.
Sample Labels match COC:	☒	☐	☐	
-Includes date/time/ID	☒	☐	☐	
Matrix: <u>WT</u>	☒	☐	☐	
Samples Arrived within Hold Time:	☒	☐	☐	6.
Short Hold Time Analysis (<72hr remaining):	☒	☐	☐	7.
Rush Turn Around Time Requested:	☒	☐	☐	8.
Sufficient Volume:	☒	☐	☐	9.
Correct Containers Used:	☒	☐	☐	10.
-Pace Containers Used	☒	☐	☐	11.
Containers Intact:	☒	☐	☐	12.
Orthophosphate field filtered:	☒	☐	☐	13.
Hex Cr Aqueous samples field filtered:	☒	☐	☐	14.
Organic Samples checked for dichlorination	☒	☐	☐	15.
Filtered volume received for dissolved tests:	☒	☐	☐	16.
All containers checked for preservation:	☒	☐	☐	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	☒	☐	☐	
All containers meet method preservation requirements:	☒	☐	☐	
	☒	☐	☐	17.
8260C/D: Headspace in VOA Vials (> 6mm)	☒	☐	☐	18.
624.1: Headspace in VOA Vials (0mm)	☒	☐	☐	19.
Radon: Headspace in RAD Vials (0mm)	☒	☐	☐	
Trip Blank Present:	☒	☐	☐	
Rad Samples Screened <.05 mrem/hr.	☒	☐	☐	
Comments:				

Initial when completed PS

Date/Time of Preservation

Lot# of added Preservative

Trip blank custody seal present? YES or NO

Initial when completed PS

Date:

12/20/24

Survey Meter SN:

23014380

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.
Qualtrax ID: 55680

Client 22474329

Profile/EZ Login Number 21500

Page 1 of 1

Notes

Sample Line Item	Amber Glass					Plastic								Vials					Other														
	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9V	WG9W	WG9X	WG9Y	WG9Z	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
001	23						1																										

Container Codes

Glass		Plastic/Misc.	
GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

Qualtrax ID: 55678

Pace® Analytical Services, LLC



ANALYTICAL REPORT

Lab Number:	L2474358
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Julia Michaels
Phone:	(631) 232-2600
Project Name:	CORAM MATERIALS
Project Number:	2232.0006Y005
Report Date:	12/30/24

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services 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 (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

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



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474358
Report Date: 12/30/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2474358-01	MW-4S_P	WATER	416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE, NY	12/16/24 11:00	12/17/24
L2474358-02	FB_12162024_P	WATER	416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE, NY	12/16/24 10:50	12/17/24

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474358
Report Date: 12/30/24

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474358
Report Date: 12/30/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by 1633

L2474358-02: The Extracted Internal Standard recoveries were above the acceptance criteria for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (188%). Since the sample was non-detect to the RL for all associated target analytes, re-analysis was not required.

The WG2011107-2 LCS recovery, associated with L2474358-01 and -02, is above the acceptance criteria for nonafluoro-3,6-dioxaheptanoic acid (nfdha) (163%); however, the associated samples are non-detect to the reporting limit for this target analyte. The results of the original analysis are reported.

WG2011107-3R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

The WG2011107-3R LCS recovery, associated with L2474358-01 and -02, is above the acceptance criteria for nonafluoro-3,6-dioxaheptanoic acid (nfdha) (157%); however, the associated samples are non-detect to the reporting limit for this target analyte. The results of the original analysis are reported.

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:

 Ashley Leita

Title: Technical Director/Representative

Date: 12/30/24

ORGANICS

SEMIVOLATILES

Project Name: CORAM MATERIALS**Lab Number:** L2474358**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS**

Lab ID: L2474358-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S_P

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 1633

Analytical Method: 144,1633

Extraction Date: 12/19/24 07:00

Analytical Date: 12/20/24 01:17

Analyst: AC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.27	J	ng/l	6.45	0.532	1
Perfluoropentanoic Acid (PFPeA)	4.46		ng/l	3.23	0.363	1
Perfluorobutanesulfonic Acid (PFBS)	3.22		ng/l	1.61	0.403	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.45	0.920	1
Perfluorohexanoic Acid (PFHxA)	4.04		ng/l	1.61	0.250	1
Perfluoropentanesulfonic Acid (PFPeS)	0.226	J	ng/l	1.61	0.210	1
Perfluoroheptanoic Acid (PFHpA)	2.40		ng/l	1.61	0.242	1
Perfluorohexanesulfonic Acid (PFHxS)	2.14		ng/l	1.61	0.137	1
Perfluorooctanoic Acid (PFOA)	9.67		ng/l	1.61	0.266	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.45	4.86	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.61	0.202	1
Perfluorononanoic Acid (PFNA)	0.492	J	ng/l	1.61	0.266	1
Perfluorooctanesulfonic Acid (PFOS)	3.14		ng/l	1.61	0.266	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.61	0.210	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.45	1.23	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.61	0.202	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.61	0.484	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.61	0.178	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.61	0.137	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.61	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.61	0.484	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.61	0.218	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.61	0.186	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.61	0.161	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.45	1.61	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.45	0.379	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.61	0.242	1



Project Name: CORAM MATERIALS**Lab Number:** L2474358**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS****Lab ID:** L2474358-01**Date Collected:** 12/16/24 11:00**Client ID:** MW-4S_P**Date Received:** 12/17/24**Sample Location:** 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.45	0.444	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.45	0.452	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.61	0.226	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.61	0.355	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.1	1.32	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.1	1.11	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.23	0.250	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.23	0.363	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.23	0.331	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.23	0.549	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.07	0.541	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.3	4.29	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.3	3.21	1

Project Name: CORAM MATERIALS**Lab Number:** L2474358**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS**

Lab ID: L2474358-01

Date Collected: 12/16/24 11:00

Client ID: MW-4S_P

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	91		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	80		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	93		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	115		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	76		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	82		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	89		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	83		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	87		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	78		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	77		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	124		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	69		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	75		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	63		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	61		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	56		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	79		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	57		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	59		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	54		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	58		10-130

Project Name: CORAM MATERIALS**Lab Number:** L2474358**Project Number:** 2232.0006Y005**Report Date:** 12/30/24**SAMPLE RESULTS**

Lab ID: L2474358-02
 Client ID: FB_12162024_P
 Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
 NY

Date Collected: 12/16/24 10:50
 Date Received: 12/17/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 144,1633
 Analytical Date: 12/20/24 01:26
 Analyst: AC

Extraction Method: EPA 1633
 Extraction Date: 12/19/24 07:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.32	0.521	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.16	0.355	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.58	0.395	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.32	0.900	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.58	0.245	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.58	0.205	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.58	0.237	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.58	0.134	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.58	0.261	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.32	4.75	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.58	0.197	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.58	0.261	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.58	0.261	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.58	0.205	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.32	1.21	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.58	0.197	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.58	0.474	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.58	0.174	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.58	0.134	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.58	0.095	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.58	0.474	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.58	0.213	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.58	0.182	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.58	0.158	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.32	1.58	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.32	0.371	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.58	0.237	1



Project Name: CORAM MATERIALS

Lab Number: L2474358

Project Number: 2232.0006Y005

Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2474358-02

Date Collected: 12/16/24 10:50

Client ID: FB_12162024_P

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.32	0.434	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.32	0.442	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.58	0.221	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.58	0.348	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.8	1.29	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.8	1.09	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.16	0.245	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.16	0.355	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	ND		ng/l	3.16	0.324	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.16	0.537	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.90	0.529	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	39.5	4.20	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	39.5	3.14	1

Project Name: CORAM MATERIALS

Lab Number: L2474358

Project Number: 2232.0006Y005

Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2474358-02

Date Collected: 12/16/24 10:50

Client ID: FB_12162024_P

Date Received: 12/17/24

Sample Location: 416 MILLER PLACE-YAPHANK ROAD, MILLER PLACE,
NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Surrogate	% Recovery			Qualifier	Acceptance Criteria	
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	98				5-130	
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	106				40-130	
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	106				40-135	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	95				40-200	
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	100				40-130	
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	94				40-130	
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	104				40-130	
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	103				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91				40-200	
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	96				40-130	
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	89				40-130	
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	86				40-130	
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	83				40-300	
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	188			Q	40-170	
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	77				30-130	
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	77				40-130	
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	59				25-135	
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	73				10-130	
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	67				10-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	109				40-130	
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	53				10-130	
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	58				10-130	
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	59				10-130	
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	61				10-130	

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474358
Report Date: 12/30/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/19/24 17:41
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/19/24 07:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2011107-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	0.528
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.360
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.400
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	0.912
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	0.248
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.208
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.240
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.136
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.264
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	4.82
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.200
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.264
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	0.264
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.208
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	1.22
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.200
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	0.480
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.176
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.136
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.096
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.480
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.216
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.184
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	0.160
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	1.60
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	0.376
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.240



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474358
Report Date: 12/30/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/19/24 17:41
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/19/24 07:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2011107-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	0.440
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	0.448
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.224
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.352
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.10
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.248
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.360
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.328
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	0.544
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	0.536
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	4.26
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	3.18

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474358
Report Date: 12/30/24

Method Blank Analysis Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/19/24 17:41
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 12/19/24 07:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-02 Batch: WG2011107-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	78		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	84		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	75		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	72		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	75		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	74		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	73		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	63		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	77		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	64		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	57		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	54		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	94		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	55		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	68		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	41		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	45		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	38		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	99		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	41		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	44		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	50		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	49		10-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474358

Report Date: 12/30/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2011107-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	120		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	128		-		65-135	-		30
Perfluorobutanesulfonic Acid (PFBS)	122		-		60-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	123		-		70-145	-		30
Perfluorohexanoic Acid (PFHxA)	119		-		70-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	120		-		65-140	-		30
Perfluoroheptanoic Acid (PFHpA)	138		-		70-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	127		-		65-145	-		30
Perfluorooctanoic Acid (PFOA)	114		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	136		-		65-155	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	112		-		70-150	-		30
Perfluorononanoic Acid (PFNA)	120		-		70-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	121		-		55-150	-		30
Perfluorodecanoic Acid (PFDA)	120		-		70-140	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	122		-		60-150	-		30
Perfluorononanesulfonic Acid (PFNS)	116		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	115		-		50-140	-		30
Perfluoroundecanoic Acid (PFUnA)	115		-		70-145	-		30
Perfluorodecanesulfonic Acid (PFDS)	109		-		60-145	-		30
Perfluorooctanesulfonamide (PFOSA)	121		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	126		-		70-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474358

Report Date: 12/30/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2011107-2 LOW LEVEL								
Perfluorododecanoic Acid (PFDoA)	128		-		70-140	-		30
Perfluorotridecanoic Acid (PFTrDA)	126		-		65-140	-		30
Perfluorotetradecanoic Acid (PFTeDA)	117		-		60-140	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	110		-		70-140	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	110		-		65-145	-		30
Perfluorododecanesulfonic Acid (PFDoS)	122		-		50-145	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	133		-		70-155	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUDS)	112		-		55-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	131		-		60-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	132		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	117		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	116		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	105		-		55-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	120		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	126		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	163	Q	-		50-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	119		-		65-130	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	125		-		70-135	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	82		-		50-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2474358

Project Number: 2232.0006Y005

Report Date: 12/30/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2011107-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	74				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	79				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	76				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	68				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	71				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	69				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	66				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	61				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	77				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	71				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	71				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	67				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	120				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	71				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	70				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	52				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	63				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	64				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	39				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	40				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	56				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	58				10-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474358

Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2011107-3								
Perfluorobutanoic Acid (PFBA)	116		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	124		-		65-135	-		30
Perfluorobutanesulfonic Acid (PFBS)	116		-		60-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	113		-		70-145	-		30
Perfluorohexanoic Acid (PFHxA)	129		-		70-145	-		30
Perfluoropentanesulfonic Acid (PFPeS)	110		-		65-140	-		30
Perfluoroheptanoic Acid (PFHpA)	118		-		70-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	109		-		65-145	-		30
Perfluorooctanoic Acid (PFOA)	110		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	146		-		65-155	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	110		-		70-150	-		30
Perfluorononanoic Acid (PFNA)	114		-		70-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	106		-		55-150	-		30
Perfluorodecanoic Acid (PFDA)	114		-		70-140	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	118		-		60-150	-		30
Perfluorononanesulfonic Acid (PFNS)	107		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	103		-		50-140	-		30
Perfluoroundecanoic Acid (PFUnA)	112		-		70-145	-		30
Perfluorodecanesulfonic Acid (PFDS)	88		-		60-145	-		30
Perfluorooctanesulfonamide (PFOSA)	108		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		70-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Project Number: 2232.0006Y005

Lab Number: L2474358

Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2011107-3								
Perfluorododecanoic Acid (PFDoA)	123		-		70-140	-		30
Perfluorotridecanoic Acid (PFTrDA)	109		-		65-140	-		30
Perfluorotetradecanoic Acid (PFTeDA)	108		-		60-140	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	112		-		70-140	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	104		-		65-145	-		30
Perfluorododecanesulfonic Acid (PFDoS)	87		-		50-145	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	118		-		70-155	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	97		-		55-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	100		-		60-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	107		-		65-145	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	109		-		70-145	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	110		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	107		-		55-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	116		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	123		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	157	Q	-		50-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	130		-		65-130	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	111		-		70-135	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	68		-		50-145	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: CORAM MATERIALS

Lab Number: L2474358

Project Number: 2232.0006Y005

Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-02 Batch: WG2011107-3								

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	88				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	88				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	89				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	85				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	81				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	83				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	85				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	69				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	90				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	87				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	84				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	77				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	132				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	74				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	77				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	59				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	63				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	58				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	95				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	52				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	56				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	63				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	64				10-130

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Serial_No:12302410:08
Lab Number: L2474358
Report Date: 12/30/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2474358-01A	Plastic 500ml unpreserved	B	NA		2.5	Y	Absent		A2-NY-1633(28)
L2474358-01B	Plastic 500ml unpreserved	B	NA		2.5	Y	Absent		A2-NY-1633(28)
L2474358-02A	Plastic 500ml unpreserved	B	NA		2.5	Y	Absent		A2-NY-1633(28)

*Values in parentheses indicate holding time in days



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

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Lab Number: L2474358
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafuoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

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Lab Number: L2474358
Report Date: 12/30/24

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name: CORAM MATERIALS**Lab Number:** L2474358**Project Number:** 2232.0006Y005**Report Date:** 12/30/24

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: DU Report with 'J' Qualifiers

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474358
Report Date: 12/30/24

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. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2474358
Report Date: 12/30/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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: CORAM MATERIALS**Lab Number:** L2474358**Project Number:** 2232.0006Y005**Report Date:** 12/30/24

REFERENCES

- 144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at its own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLCID No.: **17873**Facility: **Northeast**

Revision 23

Department: **Quality Assurance**

Published Date: 12/09/2024

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****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.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**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, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****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 Project Manager.

Fourth Quarter 2024 Quarterly Groundwater Monitoring Report
416 Miller Place-Yaphank Road, Miller Place, New York

APPENDIX D

Field Notes

12/10/24

2332-0006 9005

30

700

AJ + JM + JC (Rover) on site

Weather: 42-53°F, cloudy; wind ENE @ 6 mph; RH

~~76 - 60%~~ 94%; Pres: 30.09" Hg

Scope; Gauging; Quarterly GWS

- Alpha onsite with labware

- Sign in with Vulcan

0710 Conduct H+S Tailgate

0730 Mob to begin gauging See pg. 137

0855 Complete gauging Mob to Site Office
for coolers and horiba calibration.

* See cal sheet *

12/10/24

2232.00064005

25

Time	Well ID	DTW	DTB
0750	MW-11S	61.07	67.28
0753	MW-11D	62.73	156.47
0915	MP-1	48.58	59.25
0915	MP-1D	49.33	216.29
0806	MW-1SR	^{24.86} ~~51.86~~	30.80
0806	MW-1DR2	26.54	190.44
0845	MW-4S	69.79	76.10
0845	MW-4D2	70.75	234.79
0821	MW-5D	31.98	195.66
0821	PZ-5	30.62	34.81
0817	MW-6D	40.88	200.12
0817	PZ-6	38.76	49.37
0758	MW-13S	35.13	44.52
0758	MW-13D	35.0	128.70
0834	MW-8S	35.28	51.94
0834	MW-8D	37.08	196.90
0905	MW-10S	20.79	78.31
0905	MW-10D	21.26	195.66
0838	MW-12S	59.56	77.28
0838	MW-12D	59.69	228.00
0850	SCDOH-DR	45.84	136.76
~~0905~~ (50)	~~MW-10S~~	~~20.79~~ (50)	
	~~MS-10D~~	~~21.26~~ (50)	

(137)

AI

1000 Mob to MW-8D + MW-8S
begin purging 8D @ 10:18, 8S @ 10:23

MW-8D @ 11:05, JC

MW-8S @ 11:10, AI

decon equipment, demobilize

1140 Mob to MW-6D + PZ-6

MW-6D @ 13:10, JC

② PZ-6 @ 13:18, MS/MSD + DUP, AI
ALSO COLLECTED

decon + demobilize

1430 collect PFAS FB

1530 courier pickup, samples relinquished

1600 ROUX offsite

AI

138

12/12/24

2232.00067005

AI

0700

JC on site (ROUX)

AI fueling generators

0710

AI on site (ROUX)

weather:

25-39°, sunny. wind SW 17-27 mph.

RH: 60%, P: 30.05"

scope:

continue quarterly GWS

0720

calibrate hobs, perform safety targa

0735

mobilize to MW-11S & MW-11D

0747

-begin purging MW-11S

-generator trouble due to cold weather

0804

begin purging MW-11D

MW-11S @ 0825

, J.C.

MW-11D @ 0842

, A.I.

0850

decon equipment, demobilize

0900

mob to MW-1SR + MW-1DR2

MW-1SR @ 950

AI

MW-1DR2 @ 1010

J.C.

1020

decon + demobilize

1030

mob to MP-1D + MP-1

MP-1 @ 1140, AI

MP-1D @ 1205, JC

AMS/MSD
+ DUP

(139)

AT

1245 Decon + Demolition

310 Mobilize to MW-135 + MW-13D

MW-135 @ 1400, JE

MW-13D @ 1405, AI

1420 Decon & Demobilize

1445 Relinquish samples

1500 ROWX off site

AI

140

12/13/2024

2232.00064005

AI

0650 AI + JC on site (ROUX)

Weather: 28-34°, mostly cloudy, wind WNW
@ 10 mph, RH = 54%, P = 30.59

Scope: continue quarterly GWS

0700 calibrate hohbas, perform safety
tailgate

0720 mobilize to PZ-5 + MW-5D

0745 issues with pump at MW-5D

0900 Begin purging MW-5D

MW-5D @ 9:45, JC

PZ-5 @ 8:20, JC

decon + demobilize

1010 mobilize to SCDOH-DR

SCDOH-DR @ 11:20, AI

1145 decon + demobilize

1200 Mobilize to MW-10S + MW-10D

MW-10S-^(AI) @ 1243, AI

*sample includes EC +
radionuclides

MW-10D @ 1230, JC

1330 demob + decon equipment

1345 Head to Islandia office to meet
Canner

(141) 1440 Relinquish samples

12/16/2024

2232.0006 Y

AI

0705 A. Ierouano & J. Michaels on site (ROUX)

Weather: 39-49°, Rain. Wind ESE @ 7mph. RH: 98%.

P: 30.51"

scope: continue GWS

0715 Calibrate horiba

0720 mobilize to MW-12S + MW-12D

MW-12S @ 845, AI

MW-12D @ 933, AI

decon equipment, demobilize

0955 mobilize to MW-4S + MW-4D2

MW-4S @ 1100, AI

MW-4D2 @ , AI

Fourth Quarter 2024 Quarterly Groundwater Monitoring Report
416 Miller Place-Yaphank Road, Miller Place, New York

APPENDIX E

Chains of Custody

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 3		Date Rec'd in Lab 12/11/24		L2472333 17DEC24 ROUX - NY 																																																																																																																																																																																																																																																																			
		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place-Yaphank Road Project #: 2232.0006Y005 (Use Project name as Project #)				Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other				Billing Information ☐ Same as Client Info PO #																																																																																																																																																																																																																																																																	
		Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com				Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:																																																																																																																																																																																																																																																																	
Turn-Around Time ☒ Standard Due Date: ☐ Rush (only if pre-approved) # of Days:				ANALYSIS				Sample Filtration ☒ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)																																																																																																																																																																																																																																																																			
These samples have been previously analyzed by Alpha Other project specific requirements/comments:				Please specify Metals or TAL.				Sample Specific Comments																																																																																																																																																																																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">NYTCL-8260</th> <th rowspan="2">NYTCL-8270/SIM-RVT</th> <th rowspan="2">TAL600/TAL-2007S</th> <th rowspan="2">TDS-2540</th> <th rowspan="2">Cl4500/Br-300</th> <th rowspan="2">NO3-4500</th> <th rowspan="2">NO2-4500</th> <th rowspan="2">TOTALNITROGEN(tkn 35)</th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>12333 -01</td> <td>MW-8S</td> <td>12/10/24</td> <td>1110</td> <td>AQ</td> <td>AI</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>-02</td> <td>MW-8D</td> <td>12/10/24</td> <td>1105</td> <td>AQ</td> <td>JC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>-03</td> <td>MW-6D</td> <td>12/10/24</td> <td>1310</td> <td>AQ</td> <td>JC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>-04</td> <td>PZ-6</td> <td>12/10/24</td> <td>1318</td> <td>AQ</td> <td>AI</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>MS/MSD</td> <td></td> </tr> <tr> <td>-05</td> <td>DUP-121024</td> <td>12/10/24</td> <td>1200</td> <td>AQ</td> <td>AT</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>-06</td> <td>TRIP BLANK</td> <td>12/10/24</td> <td>LAB</td> <td>AQ</td> <td>MC</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>										ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	TDS-2540	Cl4500/Br-300	NO3-4500	NO2-4500	TOTALNITROGEN(tkn 35)			Date	Time	12333 -01	MW-8S	12/10/24	1110	AQ	AI	X	X	X	X	X	X	X	X			-02	MW-8D	12/10/24	1105	AQ	JC	X	X	X	X	X	X	X	X			-03	MW-6D	12/10/24	1310	AQ	JC	X	X	X	X	X	X	X	X			-04	PZ-6	12/10/24	1318	AQ	AI	X	X	X	X	X	X	X	X	MS/MSD		-05	DUP-121024	12/10/24	1200	AQ	AT	X	X	X	X	X	X	X	X			-06	TRIP BLANK	12/10/24	LAB	AQ	MC	X																																																																																																																																																									
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-04	PZ-6	12/10/24	1318	AQ	AI	X	X	X	X	X	X	X	X	MS/MSD																																																																																																																																																																																																																																																													
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Relinquished By: Anthony Green		Date/Time: 12/11/24 01:30		Received By: Anthony Green		Date/Time: 12/11/24 01:30		Relinquished By: Julia		Date/Time: 12/11/24 3:30																																																																																																																																																																																																																																																																	

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 3		Date Rec'd in Lab 12/11/24		ALPHA Job # L2472333							
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place Yaphank Rd Project # 2232.00006 (Use Project name as Project #) Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Standard Due Date: Rush (only if pre approved) # of Days:		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #							
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmmichaels@rouxinc.com		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:											
These samples have been previously analyzed by Alpha Other project specific requirements/comments: SUB IODIDE send from WB to PACE INDY/ SUB AMMONIUM send from WB to Galbraith Laboratories Please specify Metals or TAL.		ANALYSIS SO4-4500 Alk-HCO3-2320 Alk-CO3-2320 F-4500 TPO4-4500 SUB-IODIDE SUB-AMMONIUM A2-1,4-DIOXANE-SIM		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)											
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SO4-4500	Alk-HCO3-2320	Alk-CO3-2320	F-4500	TPO4-4500	SUB-IODIDE	SUB-AMMONIUM	A2-1,4-DIOXANE-SIM	Sample Specific Comments	Total Bottles
12333 -01	MW-8S	12/10/24	1120	AQ	AI	X	X	X	X	X	X	X	X		16
-02	MW-8D	12/10/24	1105	AQ	JC	X	X	X	X	X	X	X	X		14
-03	MW-6D	12/10/24	1310	AQ	JC	X	X	X	X	X	X	X	X		14
-04	P2-6	12/10/24	1318	AQ	AI	X	X	X	X	X	X	X	X	MS/MSD	48
-05	DWP-121024	12/10/24	1200	AQ	AI	X	X	X	X	X	X	X	X		16
-06	TRIP BLANK	12/10/24	LAB	AQ	MC										2
Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P P P P A P P A Preservative A A A A D A D A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.							
Relinquished By: Anthony Green Date/Time: 12/11/24 0130		Received By: Anthony Green Date/Time: 12/11/24 0136		Relinquished By: [Signature] Date/Time: 12/11/24 0330		Received By: [Signature] Date/Time: 12/11/24 3:30									

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 3 of 3		Date Rec'd In Lab 12/11/24				ALPHA Job # L2472333		
		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place - Yaphank Rd Project # 2232.0006Y005 (Use Project name as Project #)		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other				Billing Information ☐ Same as Client Info PO #				
		Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:				
Turn-Around Time ☐ Standard Due Date: ☐ Rush (only if pre approved) # of Days:						ANALYSIS				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		
These samples have been previously analyzed by Alpha Other project specific requirements/comments: Sub SULFIDE courier to PACE MELVILLE Please specify Metals or TAL.						SUB-SULFIDE				Total Bottles		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials					Sample Specific Comments		
		Date	Time									
72333 -01	MW-8S	12/10/24	1110	AQ	AT	X						16
-02	MW-8D	12/10/24	1105	AQ	JC	X						14
-03	MW-6D	12/10/24	1310	AQ	JL	X						14
-04	PZ-6	12/10/24	1318	AQ	AT	X					MS/MSD	48
-05	DVP 121024	12/10/24	1200	AQ	AI	X						16
-06	TRIP BLANK	12/10/24	1400	AQ	MC	X						2
Preservative Code: A = None, B = HCl, C = HNO ₃ , D = H ₂ SO ₄ , E = NaOH, F = MeOH, G = NaHSO ₄ , H = Na ₂ S ₂ O ₃ , K/E = Zn Ac/NaOH, O = Other Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle												
Westboro: Certification No: MA935 Mansfield: Certification No: MA015						Container Type P						
						Preservative C						
Relinquished By:		Date/Time		Received By:		Date/Time		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.				
<i>Anthony Green</i>		12/10/24 0130		<i>Anthony Green</i>		12/10 15:00						
<i>Anthony Green</i>		12/11/24 0130		<i>Anthony Green</i>		12/11/24 0130						
<i>Anthony Green</i>		12/11/24 0330		<i>Julia</i>		12/11 3:30						

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 12/11/24		~~L2472327~~ ~~17DEC24~~ ROUX - NY L2472333 WMC 12/12/24									
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place - Yaphank Road, Miller Place, NY Project #: 2232.0006Y005 (Use Project name as Project #) Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time ☒ Standard Due Date: ☐ Rush (only if pre approved) # of Days:		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:							
These samples have been previously analyzed by Alpha Other project specific requirements/comments: SUB Uranium/Thorium/RA226/RA228 Send to PACE Greensburg						ANALYSIS Sub-Uranium: HASL 300 Sub-Thorium: HASL 300 Sub-Ra226: 904.0 Sub-Ra226: 903.1		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles							
Please specify Metals or TAL.						Sample Specific Comments											
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	Sub-Uranium: HASL 300	Sub-Thorium: HASL 300	Sub-Ra226: 904.0	Sub-Ra226: 903.1								
72333-08	PZ-6-R	12/10/24	1318	AQ	AI	X	X	X	X								MS/MS
09	MW-8S-R	12/10/24	1110	AQ	AI	X	X	X	X								4
	DUP_121024_R	12/10/24	1200	AQ	AI	X	X	X	X								4
Preservative Code:		Container Code		Westboro: Certification No: MA935		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.							
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Relinquished By:		Date/Time		Received By:		Date/Time											
Anthony Green		12/10/24 15:30		Anthony Green		12/10/24 15:00											
Julia Michaels		12/11/24 03:30		Julia Michaels		12/11/24 03:30											

L2473162 19DEC24
ROUX - NY

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 4		Date Rec'd in Lab 12/13/24		L2473162 19DEC24 ROUX - NY							
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place-Yaphank Road Project #: 2232.0006Y005		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		PO #							
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		(Use Project name as Project #) ☐ Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Stand ☒ d Due Date: Rush (only if pre apprd) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:		These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:							
Please specify Metals or TAL.		ANALYSIS		Sample Filtration ☒ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Sample Specific Comments		Total Bottle e							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007/S	TDS-2540/TSS-2540	CI-4500/Br-300	NO3-4500	NO2-4500	TOTAL NITROGEN/tn 351		
73162-01	MW-11S	12/12/24	825	AQ	JC	X	X	X	X	X	X	X	X	14	
02	MW-11D	12/12/24	842	AQ	AI	X	X	X	X	X	X	X	X	14	
03	MW-1SR	12/12/24	950	AQ	AI	X	X	X	X	X	X	X	X	14	
04	MW-1DR2	12/12/24	1010	AQ	JC	X	X	X	X	X	X	X	X	14	
05	MP-1	12/12/24	1140	AQ	AI	X	X	X	X	X	X	X	X	14	
06	MP-1D	12/12/24	1205	AQ	JC	X	X	X	X	X	X	X	X	14	
07	DWP-121224	12/12/24	1200	AQ	JC	X	X	X	X	X	X	X	X	MS/MSD 42	
08	MW-13S	12/12/24	1400	AQ	JC	X	X	X	X	X	X	X	X	14	
09	MW-13D	12/12/24	1405	AQ	AI	X	X	X	X	X	X	X	X	14	
10	EB-121224	12/12/24	1330	AQ	AI	X	X	X	X	X	X	X	X	14	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		V A P A P A A A B A C A A D D D		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS .					
Relinquished By:		Date/Time		Received By:		Date/Time		DEC 12 2024 2120		12/13/24 0455		12/13/24 0400		12/13/24 0460	
Anthony Green		12/13/24 0455		Anthony Green		12/13/24 0455		12/13/24 0400		12/13/24 0400		12/13/24 0400		12/13/24 0400	

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		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place - Yaphank Rd Project # 2232.00006 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #								
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Stand ☒ Rush (only if pre approved) ☐ Due Date: # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:								
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ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	SO4-4500	ALK-HCO3-2320	ALK-CO3-2320	F-4500	TP04-4500	SUB-IODIDE	SUB-AMMONIUM	A2-1,4-DIOXANE-SIM	Sample Specific Comments
73162-01	MW-11S	12/12	825	AQ	JC	X	X	X	X	X	X	X		14
02	MW-11D	12/12	842	AQ	AI	X	X	X	X	X	X	X		14
03	MW-1SR	12/12	950	AQ	AI	X	X	X	X	X	X	X		14
04	MW-1DR2	12/12	1010	AQ	JC	X	X	X	X	X	X	X		14
05	MP-1	12/12	1140	AQ	AI	X	X	X	X	X	X	X		14
06	MP-1D	12/12	1205	AQ	JC	X	X	X	X	X	X	X	MS/MSD	42
07	DUP-121224	12/12	1200	AQ	JC	X	X	X	X	X	X	X		14
08	MW-13S	12/12	1400	AQ	JC	X	X	X	X	X	X	X		14
09	MW-13D	12/12	1405	AQ	AI	X	X	X	X	X	X	X		14
10	FB-121224	12/12	1330	AQ	AI	X	X	X	X	X	X	X		14
Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		P P P P A P P A A A A A D A D A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS .				
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time						
		Anthony Green		12/13/24 0155		Anthony Green		12/13/24 0155						
		12/13/24 0400				12/13/24 0400								

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 3 of 4		Date Rec'd in Lab 12/13/24		ALPHA Job # 22473162					
Client Information Client: ROUX Env. Eng. & Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmichaels@rouxinc.com		Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place - Yaphank Rd Project #: 2232.0006Y005 (Use Project name as Project #) ☐ Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time Stand ☒ Rush (only if pre approved) ☐ Due Date: # of Days:		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge					
Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:		These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Sub SULFIDE courier to PACE MELVILLE Please specify Metals or TAL.											
ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments											
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		SUB-SULFIDE		14	
3162-01		MW-11S		12/12 825		AQ		JC		X		14	
-02		MW-11D		12/12 842		AQ		AT		X		14	
-03		MW-1SR		12/12 950		AQ		AT		X		14	
-04		MW-1DR2		12/12 1010		AQ		JC		X		14	
-05		MP-1		12/12 1140		AQ		AT		X		14	
-06		MP-1D		12/12 1205		AQ		JC		X		14	
-07		DUP. 121224		12/12 1200		AQ		JC		X		14	
-08		MW-13S		12/12 1400		AQ		JC		X		14	
-09		MW-13D		12/12 1405		AQ		AT		X		14	
-10		ER. 121224		12/12 1330		AQ		HZ		X		14	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P		Preservative C		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.			
Relinquished By:		Date/Time		Received By:		Date/Time		12/13/24 0155		12/13/24 0400		12/13/24 0400	
Anthony Green		12/13/24 0155		Anthony Green		12/13/24 0155		12/13/24 0400		12/13/24 0400		12/13/24 0400	

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>4</u> of <u>4</u>		Date Rec'd in Lab <u>12/13/24</u>		ALPHA Job # <u>62473162</u>																			
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Please specify Metals or TAL.						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>NYTCL-8260</td> <td>NYTCL-8270/SIM-RVT</td> <td>TAL600/TAL-2007S</td> <td>TDS-2540</td> <td>CI-4500/Br-300</td> <td>NO3-4500</td> <td>NO2-4500</td> <td>TOTAL NITROGEN (tkn 35)</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				NYTCL-8260	NYTCL-8270/SIM-RVT		TAL600/TAL-2007S	TDS-2540	CI-4500/Br-300	NO3-4500	NO2-4500	TOTAL NITROGEN (tkn 35)	X								Sample Specific Comments
NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	TDS-2540	CI-4500/Br-300	NO3-4500	NO2-4500	TOTAL NITROGEN (tkn 35)																				
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73162-11		TRIP BLANK		12/10/24		AQ		ML		X		2															
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 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 3		Date Rec'd in Lab <u>12/14/24</u>		ALPHA Job # <u>12473538</u>											
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>CORAM MATERIALS</u> Project Location: <u>416 Miller Place-Yaphank Road</u> Project #: <u>2232.0006Y005</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #									
Client Information Client: <u>ROUX Env.Eng. &Geology, DPC</u> Address: <u>209 Shafter Street</u> <u>Islandia, NY 11749-5074</u> Phone: <u>631-232-2600</u> Fax: <u></u> Email: <u>jmichaels@rouxinc.com</u>		Project Manager: <u>Julia Michaels</u> ALPHAQuote #: <u>28577</u> Turn-Around Time Start ☒ Rush (only if pre appr ☐ Due Date: <u></u> # of Days: <u></u>		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:													
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ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials														
<u>13538-01</u>	<u>PZ-5</u>	<u>12/13/24</u>	<u>820</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>						
<u>-02</u>	<u>MW-5D</u>	<u>12/13/24</u>	<u>945</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>						
<u>-03</u>	<u>SCDOH-DR</u>	<u>12/13/24</u>	<u>1120</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>						
<u>-04</u>	<u>MW-10S</u>	<u>12/13/24</u>	<u>1243</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>16</u>						
<u>-05</u>	<u>MW-10D</u>	<u>12/13/24</u>	<u>1230</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>						
<u>-06</u>	<u>EB-12132024</u>	<u>12/13/24</u>	<u>1330</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>2</u>						
<u>-07</u>	<u>TRIP BLANK</u>	<u>12/10/24</u>	<u>LAB</u>	<u>AQ</u>	<u>ML</u>	<u>X</u>							<u>2</u>						
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other						Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle						Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		V A P A P A A A B A C A A D D D		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS & CONDITIONS</u> .	
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 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 3		Date Rec'd in Lab <u>12/14/24</u>		ALPHA Job # <u>12473538</u>							
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ALPHA Lab ID (Lab Use Only)	Sample ID	Date	Time	Sample Matrix	Sampler's Initials	SO4-4500	ALK-HCO3-2320	ALK-CO3-2320	F-4500	TPO4-4500	SUB-IODIDE	SUB-AMMONIUM	A2-1,4-DIOXANE-SIM		
<u>13538-08</u>	<u>PZ-5</u>	<u>12/13/24</u>	<u>820</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>	
<u>-02</u>	<u>MW-5D</u>	<u>12/13/24</u>	<u>945</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>	
<u>-03</u>	<u>SCDOH-DR</u>	<u>12/13/24</u>	<u>1120</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>	
<u>-04</u>	<u>MW-10S</u>	<u>12/13/24</u>	<u>1243</u>	<u>AQ</u>	<u>AT</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>16</u>	
<u>-05</u>	<u>MW-10D</u>	<u>12/13/24</u>	<u>1230</u>	<u>AQ</u>	<u>JC</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>14</u>	
<u>-06</u>	<u>FB-12/13/2024</u>	<u>12/13/24</u>	<u>1330</u>	<u>AQ</u>	<u>AT</u>								<u>X</u>	<u>2</u>	
<u>-07</u>	<u>TRIP BLANK</u>	<u>12/13/24</u>	<u>LAB</u>	<u>AQ</u>	<u>MC</u>									<u>2</u>	
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Relinquished By: <u>[Signature]</u>		Date/Time: <u>12/13/24 1440</u>		Received By: <u>[Signature]</u>		Date/Time: <u>12/13/24 15:00</u>		Relinquished By: <u>[Signature]</u>		Date/Time: <u>12/13/24 17:30</u>		Received By: <u>[Signature]</u>		Date/Time: <u>12/13/24 1903</u>	
Relinquished By: <u>[Signature]</u>		Date/Time: <u>12/13/24</u>		Received By: <u>[Signature]</u>		Date/Time: <u>12/14/24 0110</u>		Relinquished By: <u>[Signature]</u>		Date/Time: <u>12/14/24 0110</u>		Received By: <u>[Signature]</u>		Date/Time: <u>12/14/24 0110</u>	

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ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	SUB-SULFIDE															
73538-08	P2-5	12/13 8:10	AQ	JC	X															14
-02	MW-5D	12/13 9:45	AQ	JC	X															14
-03	SCD04-DR	12/13 11:20	AQ	AT	X															14
-04	MW-10S	12/13 12:43	AQ	AT	X															16
-05	MW-10D	12/13 12:50	AQ	JC	X															14
-06	FB-12132024	12/13 13:30	AQ	AT																2
-07	TRIP BLANK	12/13/24 LAB	AQ	MC																2
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type P Preservative C		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS .												
Relinquished By: <i>[Signature]</i> Date/Time: 12/13/24 14:40 Received By: <i>[Signature]</i> Date/Time: 12/13/24 15:03		Relinquished By: <i>[Signature]</i> Date/Time: 12/13/24 17:30 Received By: <i>[Signature]</i> Date/Time: 12/13/24 19:03		Relinquished By: <i>[Signature]</i> Date/Time: 12/14/24 01:10 Received By: <i>[Signature]</i> Date/Time: 12/14/24 01:10																

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 ALPHA ANALYTICAL AND CHEMICAL	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 3	Date Rec'd in Lab <u>12/18/24</u>	L2474329 ROUX - NY 	13JAN25																																																																																																
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288																																																																																																				
Project Information Project Name: CORAM MATERIALS Project Location: 416 Miller Place-Yaphank Road Project #: 2232.0006Y005 (Use Project name as Project #) Project Manager: Julia Michaels ALPHAQuote #: 28577 Turn-Around Time ☒ Standard Due Date: ☐ Rush (only if pre approved) # of Days:			Deliverables ☐ ASP-A ☒ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) PO # ☐ Other																																																																																																			
Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: Email: jmicahels@rouxinc.com			Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY Other:																																																																																																	
These samples have been previously analyzed by Alpha Other project specific requirements/comments: 2 of 3 VOA for 8260 Please specify Metals or TAL.			ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NYTCL-8260</th> <th>NYTCL-8270/SIM-RVT</th> <th>TAL600/TAL-2007S</th> <th>TDS-2540</th> <th>Cl-4500/Br-300</th> <th>NO3-4500</th> <th>NO2-4500</th> <th>TOTAL NITROGEN (tkn 35)</th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>		NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	TDS-2540	Cl-4500/Br-300	NO3-4500	NO2-4500	TOTAL NITROGEN (tkn 35)	X	X	X	X	X	X	X	X	Sample Filtration ☒ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)																																																																																	
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Relinquished By: <u>Julia Michaels</u> <u>12/17/24 1240</u> <u>12/17/24 2215</u> <u>12/18/24 0115</u>			Date/Time <u>12/16/24</u> <u>12/17/24 1240</u> <u>12/17/24 2215</u> <u>12/18/24 0115</u>			Received By: <u>V. Silva (RSC)</u> <u>12/17/24 18:45</u> <u>12/17/24 2215</u> <u>12/18/24 0115</u>			Date/Time <u>12/17/24 835A</u> <u>12/17/24</u> <u>12/18/24 0115</u>																																																																																													

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NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Wakeup Dr.
TEL: 508-855-0020
FAX: 508-855-0193

Mansfield, MA 02048
320 Forbes Drive
TEL: 508-822-8300
FAX: 508-822-3288

Service Center
Mansfield, NJ 07430: 35 Winway Rd, Suite 1
Albany, NY 12205: 14 Walker Way
Tuckahoe, NY 11560: 274 Cooper Ave, Suite 108

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Date Rec'd
in Lab

12/18/24

ALPHA Job #

12474329

Project Information

Project Name: CORAM MATERIALS

Project Location:

Project #: 2232 0006Y005

(Use Project name as Project #)

Project Manager: Julia Michaels

ALPHAQuote #: 28577

Turn-Around Time

Standard

Due Date:

Push (only if pre-approved)

of Days:

Deliverables

☐ ASP-A

☐ ASP-B

☐ EQU5 (1 File)

☐ EQU5 (4 File)

☐ Other

Billing Information

☐ Same as Client Info

PO #

Regulatory Requirement

☐ NY TOGS

☐ NY Part 575

☐ AWG Standards

☐ NY CR-51

☐ NY Restricted Use

☐ Other

☐ NY Unrestricted Use

☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

☐ NJ

☐ NY

☐ Other

ANALYSIS

SUB-SULFIDE

Sample Filtration

☐ Done

☐ Lab to do

☐ Preservation

☐ Lab to do

(Please Specify below)

Sample Specific Comments

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Sub SULFIDE courier to PACE MELVILLE

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	K	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
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