



February 14, 2022

U.S. Environmental Protection Agency
Office of Ecosystem Protection
EPA/OEP RGP Applications Coordinator
5 Post Office square – Suite 100
Mail Code OEP06-01
Boston, MA 02109-3912
Submitted electronically to: NPDES.Generalpermits@epa.gov

Subject: Notice of Intent for Discharge
Massachusetts Remediation General Permit MAG910000
Proposed Gas Transfer Station
265 First Street
Cambridge, Massachusetts

To Whom It May Concern,

On behalf of Kendall Infrastructure LLC, Tetra Tech has prepared the attached Notice of Intent (NOI) for coverage under the Remediation General Permit (RGP) MAG91000 for the discharge of construction dewatering effluent indirectly into the Charles River from an outfall on Broad Canal. Construction excavation dewatering is needed to facilitate the construction of a gas transfer station at the Vicinity Energy co-generation station located at 265 First Street in Cambridge, Massachusetts.

Kendall Infrastructure LLC is constructing the gas transfer station on the Vicinity Energy property to support the distribution of natural gas to this portion of the City of Cambridge. Once constructed, Eversource will operate the gas transfer station. The location of the proposed gas transfer station is shown on Figure 1.

Two reported releases at Kendall Station may have affected soil and groundwater within the footprint of the proposed GTS. One was a release of approximately 5,000 gallons of No. 6 fuel oil to the secondary containment area surrounding aboveground storage tank No. 35 adjacent to the proposed GTS (MassDEP Release Tracking Number [RTN] 3-15243). Approximately 4,500 gallons of the fuel oil were recovered and shallow soil was excavated from within the secondary containment area. The second release consisted of MGP and tar processing residuals (RTN 3-15754) observed in several locations during the 1997-1998 assessment activities described for the No. 6 fuel oil release. A Permanent Solution in the form of a Class A-3 Response Action Outcome (RAO) for RTN 3-15243 and a Class B-2 RAO for RTN 3-15754 was filed in November 1998. The petroleum, manufactured gas, and tar processing residuals are the subject of this NOI.



This project is considered an Activity Category III, Contaminated Site Dewatering, as defined in the RGP. The constituents of interest include Category A (inorganics), Category B (non-halogenated volatile organic compounds), Category D (non-halogenated semi-volatile organic compounds), and Category F (fuels parameters).

Installation of the gas transfer station foundation will require excavation to a depth of 12 feet below grade. In September 2021 groundwater was observed to be 6.5 feet below grade. Groundwater pumped from the excavation will be transferred to a settling tank, then discharged through bag filters to remove sediment and granular activated carbon to remove organics. If necessary to meet discharge limits for other constituents of interest, pH adjustment or ion media resin vessels will be added to the treatment train.

The excavation and proposed gas transfer station will be located on Vicinity Energy property. The treated water will be discharged to a private storm drain owned by Kendall Square Corporation. The storm drain leads to Outfall D51, also owned by Kendall Square Corporation, that discharges to the Broad Canal extension of the Charles River (refer to Figure 2).

If the construction dewatering begins prior to receiving authorization to discharge under the RGP, the dewatering effluent may be transferred to a nearby temporary storage area shown of Figure 3. The dewatering effluent would be discharged to a tanker truck at the point of excavation, transported over roadways, and transferred to frac tanks positioned in the nearby temporary storage area. Alternatively, the dewatering effluent would be conveyed via hose to the temporary storage area. The treatment system would then be positioned at the alternate location adjacent to the temporary storage area. Once authorization is received to discharge under the RGP the stored water would be treated and discharged to the private storm drain owned by Kendall Square Corporation that leads to Outfall D51.

The NOI and supporting documentation are included with this letter. The supporting documentation includes a sample collected from the location of the proposed excavation that requires dewatering. The sample was not analyzed for several Group A inorganics. We intent to collect a supplemental sample for these inorganic analytes to support this NOI prior to initiating discharge and can monitor for these parameters once discharge is initiated. If you have any questions regarding the NOI or the project, do not hesitate to contact me.

Very truly yours,

A handwritten signature in blue ink that reads 'James R. Greacen'.

James R. Greacen, LSP
Project Manager

Jamie.greacen@tetrattech.com

NUS

5 Industrial Way, Suite 2B, Salem NH 03079
Tel (603) 328-1558 Fax (603) 870-0802 tetrattech.com

Remediation General Permit
Notice of Intent
Proposed Gas Transfer Station and Distribution Piping
BMR Infrastructure LLC
January 2022

Prepared for:
BMR Infrastructure LLC
4570 Executive Drive
San Diego, CA 92121

Prepared by:
Tetra Tech
5 Industrial Way, Suite 2B
Salem, NH 03079

Table of Contents

Notice of Intent

Figure 1 - Gas Transfer Station Location

Figure 2 - Site Plan

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Appendix D – Groundwater Results

Appendix E – BMP Plan

Appendix F – Receiving Water Results

II. Suggested Format for the Remediation General Permit Notice of Intent (NOI)

A. General site information:

1. Name of site:	Site address: Street: <table border="1" data-bbox="888 475 1950 557"> <tr> <td data-bbox="888 475 1591 557">City:</td><td data-bbox="1591 475 1722 557">State:</td><td data-bbox="1722 475 1950 557">Zip:</td></tr> </table>	City:	State:	Zip:									
City:	State:	Zip:											
2. Site owner Owner is (check one): ☐ Federal ☐ State/Tribal ☐ Private ☐ Other; if so, specify:	<table border="1"> <tr> <td colspan="3" data-bbox="888 557 1950 630">Contact Person:</td></tr> <tr> <td data-bbox="888 630 1461 698">Telephone:</td><td colspan="2" data-bbox="1461 630 1950 698">Email:</td></tr> <tr> <td colspan="3" data-bbox="888 698 1950 800">Mailing address: Street:</td></tr> <tr> <td data-bbox="888 800 1591 878">City:</td><td data-bbox="1591 800 1722 878">State:</td><td data-bbox="1722 800 1950 878">Zip:</td></tr> </table>	Contact Person:			Telephone:	Email:		Mailing address: Street:			City:	State:	Zip:
Contact Person:													
Telephone:	Email:												
Mailing address: Street:													
City:	State:	Zip:											
3. Site operator, if different than owner	<table border="1"> <tr> <td colspan="3" data-bbox="888 878 1950 938">Contact Person:</td></tr> <tr> <td data-bbox="888 938 1461 998">Telephone:</td><td colspan="2" data-bbox="1461 938 1950 998">Email:</td></tr> <tr> <td colspan="3" data-bbox="888 998 1950 1101">Mailing address: Street:</td></tr> <tr> <td data-bbox="888 1101 1591 1154">City:</td><td data-bbox="1591 1101 1722 1154">State:</td><td data-bbox="1722 1101 1950 1154">Zip:</td></tr> </table>	Contact Person:			Telephone:	Email:		Mailing address: Street:			City:	State:	Zip:
Contact Person:													
Telephone:	Email:												
Mailing address: Street:													
City:	State:	Zip:											
4. NPDES permit number assigned by EPA: NPDES permit is (check all that apply): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:	5. Other regulatory program(s) that apply to the site (check all that apply): <table border="0"> <tr> <td>☐ MA Chapter 21e; list RTN(s):</td><td>☐ CERCLA</td></tr> <tr> <td>☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:</td><td>☐ UIC Program</td></tr> <tr> <td></td><td>☐ POTW Pretreatment</td></tr> <tr> <td></td><td>☐ CWA Section 404</td></tr> </table>	☐ MA Chapter 21e; list RTN(s):	☐ CERCLA	☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:	☐ UIC Program		☐ POTW Pretreatment		☐ CWA Section 404				
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☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:	☐ UIC Program												
	☐ POTW Pretreatment												
	☐ CWA Section 404												

B. Receiving water information:

1. Name of receiving water(s):	Waterbody identification of receiving water(s):	Classification of receiving water(s):
Receiving water is (check any that apply): ☐ Outstanding Resource Water ☐ Ocean Sanctuary ☐ territorial sea ☐ Wild and Scenic River		
2. Has the operator attached a location map in accordance with the instructions in B, above? (check one): ☐ Yes ☐ No Are sensitive receptors present near the site? (check one): ☐ Yes ☐ No If yes, specify:		
3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP.		
4. Indicate the seven day-ten-year low flow (7Q10) of the receiving water determined in accordance with the instructions in Appendix V for sites located in Massachusetts and Appendix VI for sites located in New Hampshire.		
5. Indicate the requested dilution factor for the calculation of water quality-based effluent limitations (WQBELs) determined in accordance with the instructions in Appendix V for sites in Massachusetts and Appendix VI for sites in New Hampshire.		
6. Has the operator received confirmation from the appropriate State for the 7Q10 and dilution factor indicated? (check one): ☐ Yes ☐ No If yes, indicate date confirmation received:		
7. Has the operator attached a summary of receiving water sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No		

C. Source water information:

1. Source water(s) is (check any that apply):			
☐ Contaminated groundwater Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No	☐ Contaminated surface water Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No	☐ The receiving water	☐ Potable water; if so, indicate municipality or origin: ☐ Other; if so, specify:
		☐ A surface water other than the receiving water; if so, indicate waterbody:	

2. Source water contaminants:	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in the RGP? (check one): ☐ Yes ☐ No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance with the instructions in Appendix VIII? (check one): ☐ Yes ☐ No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): ☐ Yes ☐ No	

D. Discharge information

1.The discharge(s) is a(n) (check any that apply): ☐ Existing discharge ☐ New discharge ☐ New source	
Outfall(s):	Outfall location(s): (Latitude, Longitude)
Discharges enter the receiving water(s) via (check any that apply): ☐ Direct discharge to the receiving water ☐ Indirect discharge, if so, specify: ☐ A private storm sewer system ☐ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ☐ Yes ☐ No Has the operator has received permission from the owner to use such system for discharges? (check one): ☐ Yes ☐ No, if so, explain, with an estimated timeframe for obtaining permission: Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ☐ No	
Provide the expected start and end dates of discharge(s) (month/year):	
Indicate if the discharge is expected to occur over a duration of: ☐ less than 12 months ☐ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ☐ Yes ☐ No	

2. Activity Category: (check all that apply)	3. Contamination Type Category: (check all that apply)	
☐ I – Petroleum-Related Site Remediation ☐ II – Non-Petroleum-Related Site Remediation ☐ III – Contaminated Site Dewatering ☐ IV – Dewatering of Pipelines and Tanks ☐ V – Aquifer Pump Testing ☐ VI – Well Development/Rehabilitation ☐ VII – Collection Structure Dewatering/Remediation ☐ VIII – Dredge-Related Dewatering	a. If Activity Category I or II: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters	
	b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)	
	<table border="1"> <tr> <td data-bbox="970 800 1419 873">☐ G. Sites with Known Contamination</td><td data-bbox="1419 800 2003 873">☐ H. Sites with Unknown Contamination</td></tr> </table>	☐ G. Sites with Known Contamination
☐ G. Sites with Known Contamination	☐ H. Sites with Unknown Contamination	
<table border="1"> <tr> <td data-bbox="970 873 1419 1409"> c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters </td><td data-bbox="1419 873 2003 1409"> d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply </td></tr> </table>	c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters	d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply
c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply) ☐ A. Inorganics ☐ B. Non-Halogenated Volatile Organic Compounds ☐ C. Halogenated Volatile Organic Compounds ☐ D. Non-Halogenated Semi-Volatile Organic Compounds ☐ E. Halogenated Semi-Volatile Organic Compounds ☐ F. Fuels Parameters	d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply	

MAG910000
NHG910000

4. Influent and Effluent Characteristics

Influent and Effluent Characteristics									
Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia								Report mg/L	---
Chloride								Report µg/l	---
Total Residual Chlorine								0.2 mg/L	
Total Suspended Solids								30 mg/L	
Antimony								206 µg/L	
Arsenic								104 µg/L	
Cadmium								10.2 µg/L	
Chromium III								323 µg/L	
Chromium VI								323 µg/L	
Copper								242 µg/L	
Iron								5,000 µg/L	
Lead								160 µg/L	
Mercury								0.739 µg/L	
Nickel								1,450 µg/L	
Selenium								235.8 µg/L	
Silver								35.1 µg/L	
Zinc								420 µg/L	
Cyanide								178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX								100 µg/L	---
Benzene								5.0 µg/L	---
1,4 Dioxane								200 µg/L	---
Acetone								7.97 mg/L	---
Phenol								1,080 µg/L	

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride								4.4 µg/L	
1,2 Dichlorobenzene								600 µg/L	---
1,3 Dichlorobenzene								320 µg/L	---
1,4 Dichlorobenzene								5.0 µg/L	---
Total dichlorobenzene								763 µg/L in NH	---
1,1 Dichloroethane								70 µg/L	---
1,2 Dichloroethane								5.0 µg/L	---
1,1 Dichloroethylene								3.2 µg/L	---
Ethylene Dibromide								0.05 µg/L	---
Methylene Chloride								4.6 µg/L	---
1,1,1 Trichloroethane								200 µg/L	---
1,1,2 Trichloroethane								5.0 µg/L	---
Trichloroethylene								5.0 µg/L	---
Tetrachloroethylene								5.0 µg/L	
cis-1,2 Dichloroethylene								70 µg/L	---
Vinyl Chloride								2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates								190 µg/L	
Diethylhexyl phthalate								101 µg/L	
Total Group I PAHs								1.0 µg/L	---
Benzo(a)anthracene								As Total PAHs	
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(k)fluoranthene									
Chrysene									
Dibenzo(a,h)anthracene									
Indeno(1,2,3-cd)pyrene									

[illegible]

E. Treatment system information

1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply) ☐ Adsorption/Absorption ☐ Advanced Oxidation Processes ☐ Air Stripping ☐ Granulated Activated Carbon (“GAC”)/Liquid Phase Carbon Adsorption ☐ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ☐ Separation/Filtration ☐ Other; if so, specify:	
2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge. Identify each major treatment component (check any that apply): ☐ Fractionation tanks ☐ Equalization tank ☐ Oil/water separator ☐ Mechanical filter ☐ Media filter ☐ Chemical feed tank ☐ Air stripping unit ☐ Bag filter ☐ Other; if so, specify: Indicate if either of the following will occur (check any that apply): ☐ Chlorination ☐ De-chlorination	
3. Provide the design flow capacity in gallons per minute (gpm) of the most limiting component. Indicate the most limiting component: Is use of a flow meter feasible? (check one): ☐ Yes ☐ No, if so, provide justification:	
Provide the proposed maximum effluent flow in gpm.	
Provide the average effluent flow in gpm.	
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	
4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): ☐ Yes ☐ No	

F. Chemical and additive information

1. Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)

☐ Algaecides/biocides ☐ Antifoams ☐ Coagulants ☐ Corrosion/scale inhibitors ☐ Disinfectants ☐ Flocculants ☐ Neutralizing agents ☐ Oxidants ☐ Oxygen ☐ scavengers ☐ pH conditioners ☐ Bioremedial agents, including microbes ☐ Chlorine or chemicals containing chlorine ☐ Other; if so, specify:

2. Provide the following information for each chemical/additive, using attachments, if necessary:

- a. Product name, chemical formula, and manufacturer of the chemical/additive;
- b. Purpose or use of the chemical/additive or remedial agent;
- c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;
- d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;
- e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and
- f. If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).

3. Has the operator attached an explanation which demonstrates that the addition of such chemicals/additives may be authorized under this general permit in accordance with the instructions in F, above? (check one): ☐ Yes ☐ No; if no, has the operator attached data that demonstrates each of the 126 priority pollutants in CWA Section 307(a) and 40 CFR Part 423.15(j)(1) are non-detect in discharges with the addition of the proposed chemical/additive? (check one): ☐ Yes ☐ No

G. Endangered Species Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

- ☐ **FWS Criterion A:** No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the “action area”.
- ☐ **FWS Criterion B:** Formal or informal consultation with the FWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by FWS on a finding that the discharges and related activities are “not likely to adversely affect” listed species or critical habitat (informal consultation). Has the operator completed consultation with FWS? (check one): ☐ Yes ☐ No; if no, is consultation underway? (check one): ☐ Yes ☐ No
- ☐ **FWS Criterion C:** Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and related activities will have “no effect” on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the FWS. This determination was made by: (check one) ☐ the operator ☐ EPA ☐ Other; if so, specify:

- ☐ **NMFS Criterion:** A determination made by EPA is affirmed by the operator that the discharges and related activities will have “no effect” or are “not likely to adversely affect” any federally threatened or endangered listed species or critical habitat under the jurisdiction of NMFS and will not result in any take of listed species. Has the operator previously completed consultation with NMFS? (check one): ☐ Yes ☐ No

2. Has the operator attached supporting documentation of ESA eligibility in accordance with the instructions in Appendix I, and G, above? (check one): ☐ Yes ☐ No

Does the supporting documentation include any written concurrence or finding provided by the Services? (check one): ☐ Yes ☐ No; if yes, attach.

H. National Historic Preservation Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

- ☐ **Criterion A:** No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.
- ☐ **Criterion B:** Historic properties are present. Discharges and discharge related activities do not have the potential to cause effects on historic properties.
- ☐ **Criterion C:** Historic properties are present. The discharges and discharge-related activities have the potential to have an effect or will have an adverse effect on historic properties.

2. Has the operator attached supporting documentation of NHPA eligibility in accordance with the instructions in H, above? (check one): ☐ Yes ☐ No

Does the supporting documentation include any written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the operator will carry out to mitigate or prevent any adverse effects on historic properties? (check one): ☐ Yes ☐ No

I. Supplemental information

Describe any supplemental information being provided with the NOI. Include attachments if required or otherwise necessary.

Has the operator attached data, including any laboratory case narrative and chain of custody used to support the application? (check one): ☐ Yes ☐ No

Has the operator attached the certification requirement for the Best Management Practices Plan (BMPP)? (check one): ☐ Yes ☐ No

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BMPP certification statement: A BMPP meeting the requirements of this general permit is attached to this NOI.

Notification provided to the appropriate State, including a copy of this NOI, if required.

Check one: Yes ☒ No ☐

Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested.

Check one: Yes ☒ No ☐

Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.

Check one: Yes ☐ No ☐ NA ☐

Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.

No additional conditions requested by owner

Check one: Yes ☒ No ☐ NA ☐

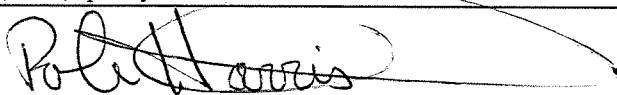
Notification provided to the owner/operator of the area associated with activities covered by an additional discharge

permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit

Check one: Yes ☐ No ☐ NA ☒

☐ Other; if so, specify:

Signature:



Date:

2/17/22

Print Name and Title:

Rob Harris, VPOps / Dir P&U.

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BMPP certification statement:

Notification provided to the appropriate State, including a copy of this NOI, if required.

Check one: Yes ☐ No ☐

Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested.

Check one: Yes ☐ No ☐

Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.

Check one: Yes ☐ No ☐ NA ☐

Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.

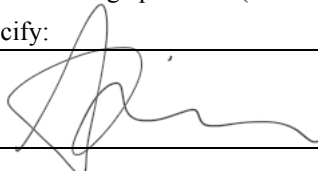
No additional conditions requested by owner

Check one: Yes ☐ No ☐ NA ☐

Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit
☐ Other; if so, specify:

Check one: Yes ☐ No ☐ NA ☐

Signature:



Date: 2/7/22

Print Name and Title: Salvatore Zinno, SPV Development



FIGURE 1
PROPOSED GAS TRANSFER STATION LOCATION
CAMBRIDGE, MA

DRAWN BY: MM 11/08/21
CHECKED BY: TZ 11/08/21

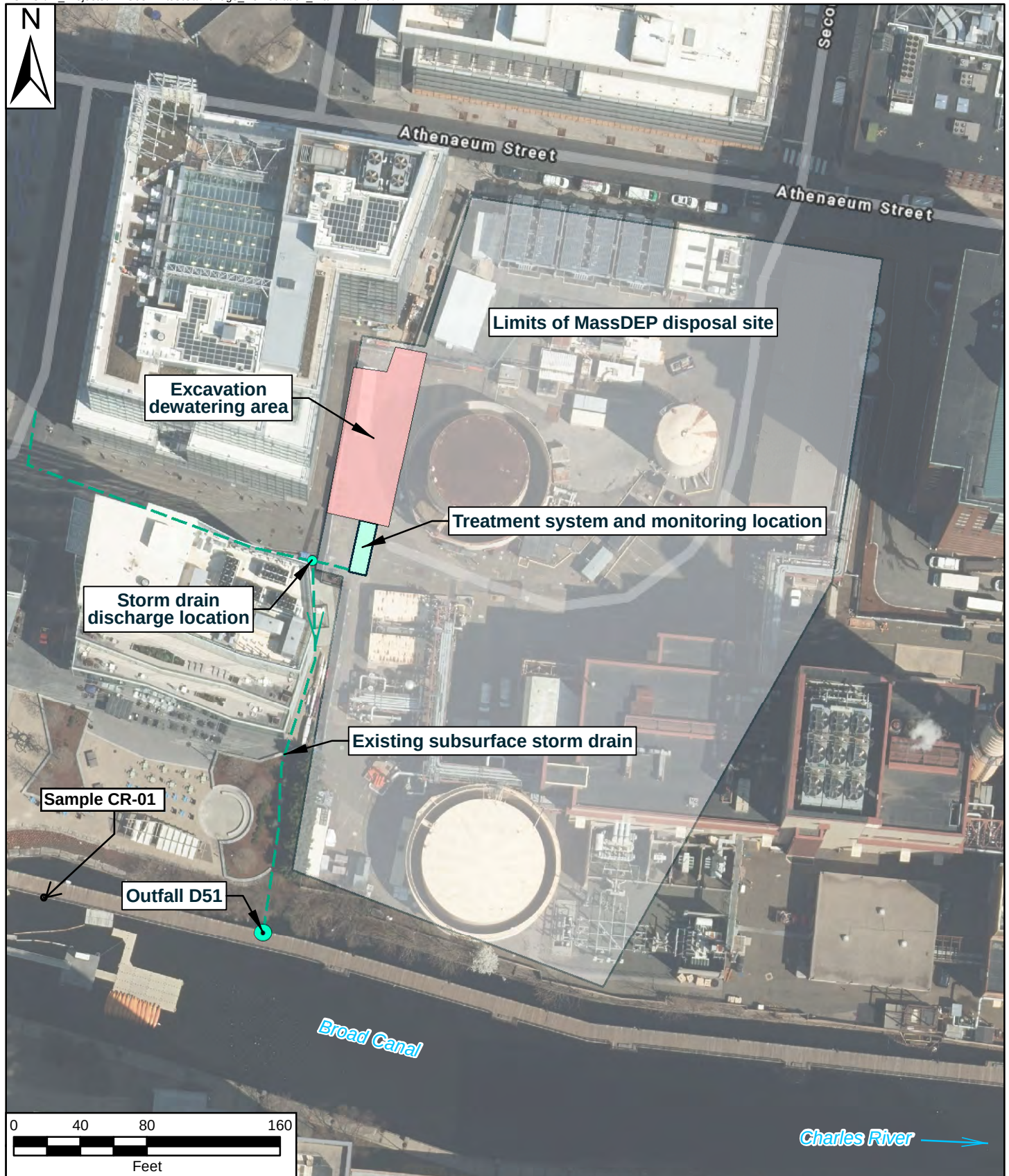
CONTRACT NUMBER: 112C08712
CTO 112C08712

FIGURE NUMBER

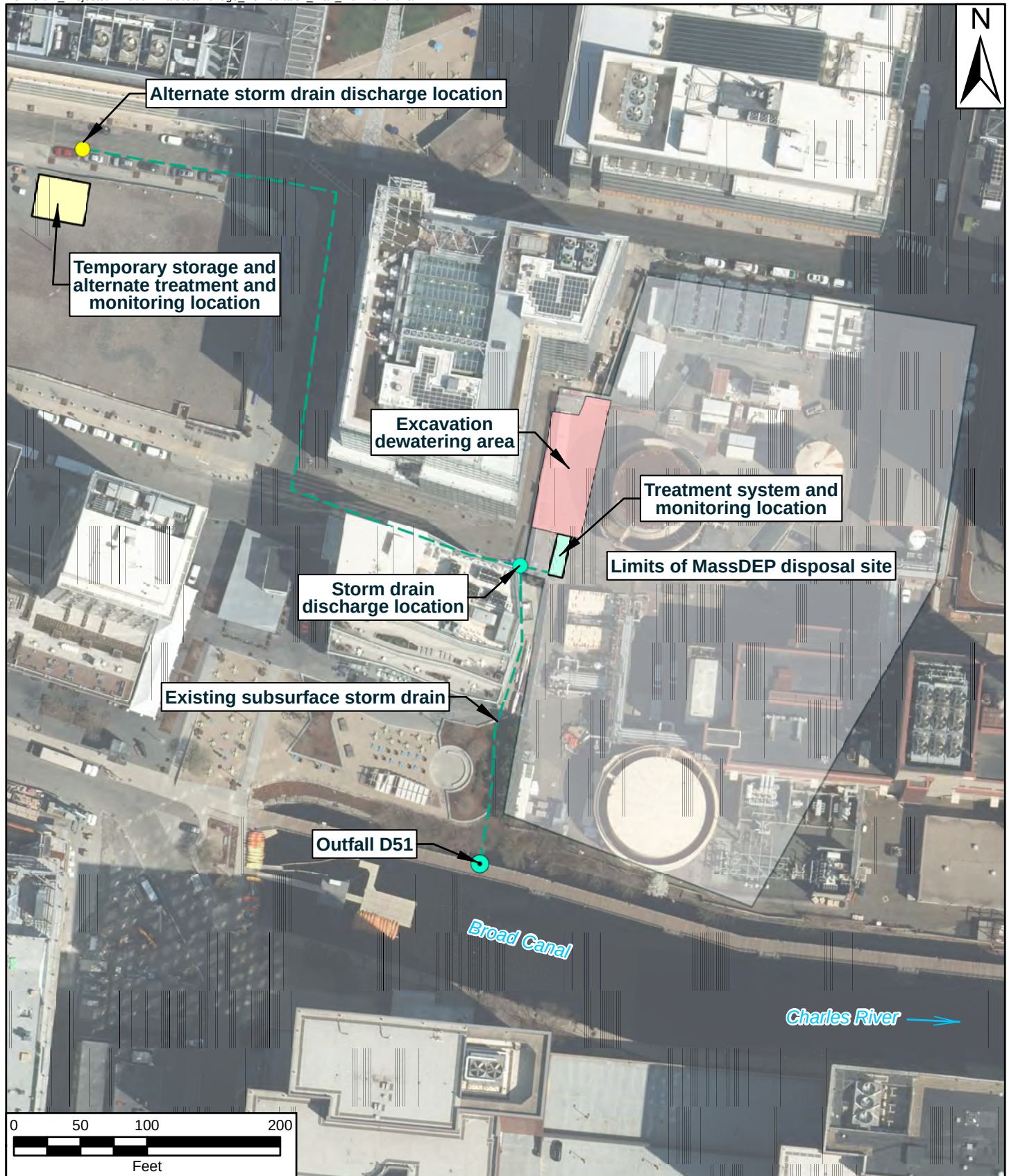
1

REV

0



 TETRA TECH	FIGURE 2 REMEDIAL GENERAL PERMIT SITE PLAN CAMBRIDGE, MASSACHUSETTS		DRAWN BY: MKB 01/12/2022 CHECKED BY: JRG 01/12/2022 PROJECT NUMBER: 112C08712	
			FIGURE NUMBER 2	REV 0



 TETRA TECH	FIGURE 3 TEMPORARY STORAGE AND ALTERNATE TREATMENT SYSTEM LOCATION CAMBRIDGE, MASSACHUSETTS		DRAWN BY: MKB 01/12/2022 CHECKED BY: JRG 01/12/2022	
			PROJECT NUMBER: 112C08712	
	FIGURE NUMBER 3	REV 0		

Appendix A

MassDEP Priority Resources Map

MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:

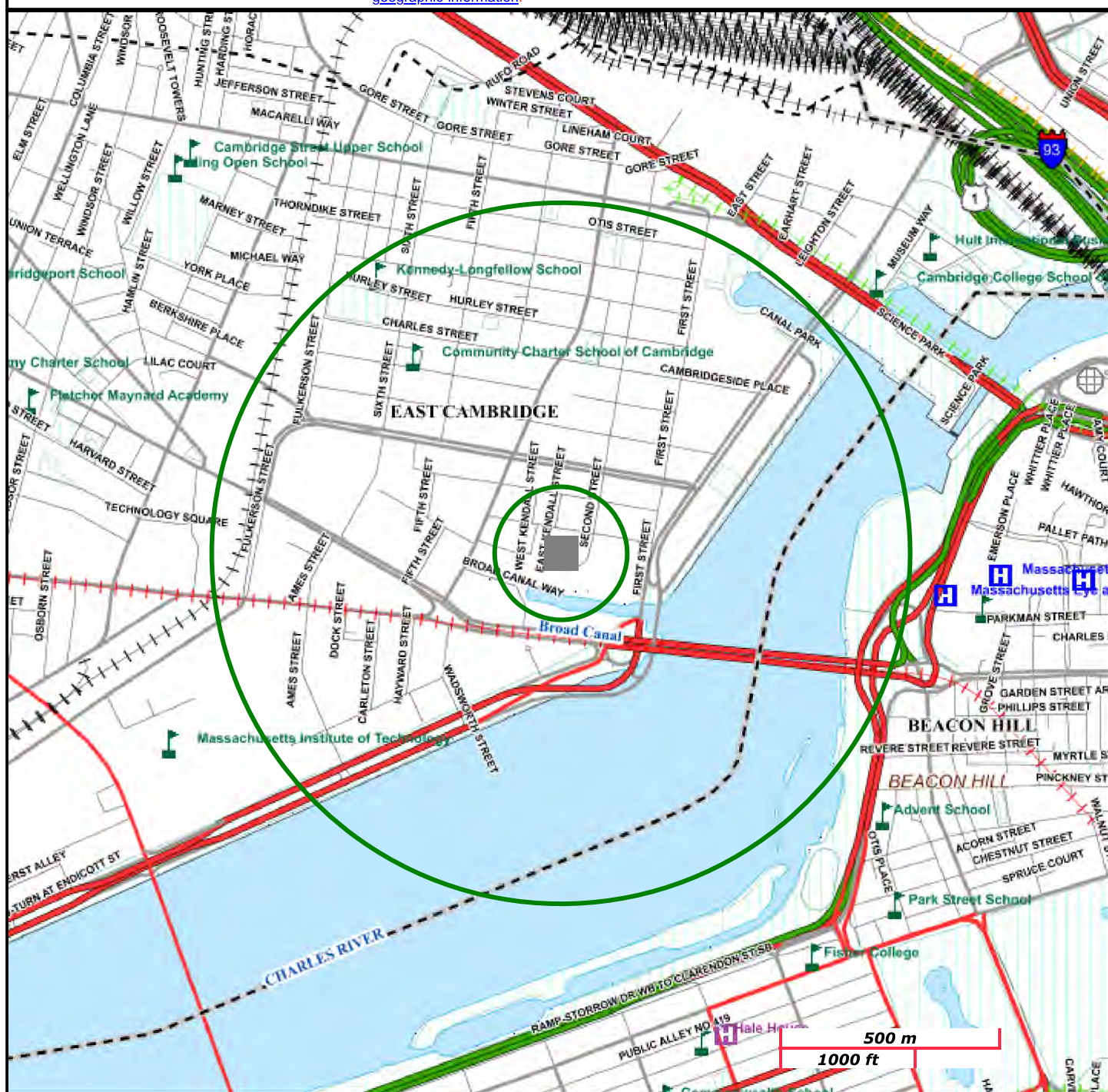
GTS
CAMBRIDGE, MA

NAD83 UTM Meters:

4692252mN, 328631mE (Zone: 19)
September 30, 2021

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:

<https://www.mass.gov/orgs/massgis-bureau-of-geographic-information>



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source.....

Non Potential Drinking Water Source Area: Medium, High (Yield)...

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential

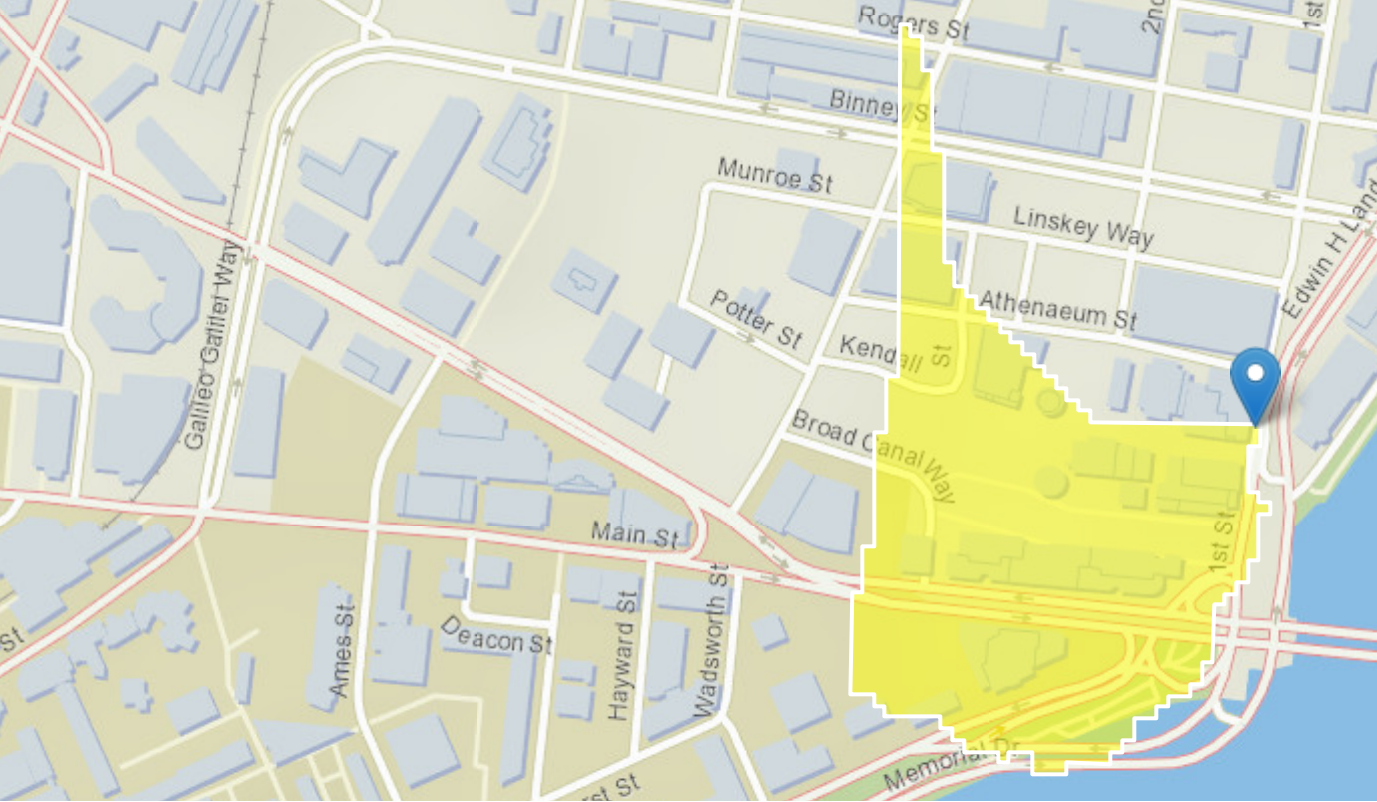
Solid Waste Landfill; PWS: Com. GW, SW, Emerg., Non-Com.

Appendix B

USGS Streamflow Statistics Report

StreamStats Report

Region ID: MA
Workspace ID: MA20220125161529530000
Clicked Point (Latitude, Longitude): 42.36338, -71.07875
Time: 2022-01-25 11:15:49 -0500



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0432	square miles
BSLDEM250	Mean basin slope computed from 1:250K DEM	0.092	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	-100000	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless

Low-Flow Statistics Parameters [Statewide Low Flow WRIR00 4135]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0432	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	0.092	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	-100000	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1

Low-Flow Statistics Flow Report [Statewide Low Flow WRIR00 4135]

Statistic	Value	Unit
-----------	-------	------

Low-Flow Statistics Citations

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.6.2

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2

Enter number values in green boxes based on the instructions to the right

Enter values in the units specified

↓

0	Q_R = Enter upstream flow in MGD
0.144	Q_P = Enter discharge flow in MGD
0	Downstream 7Q10

Enter a dilution factor for saltwater receiving water (this box does not apply to freshwater receiving waters)

↓

0

Enter values in the units specified

↓

800	C_d = Enter influent hardness in mg/L CaCO_3
74.8	C_s = Enter receiving water hardness in mg/L CaCO_3

Enter **receiving water** concentrations in the units specified

↓

		Impaired for metals?
7.3	pH in Standard Units	↓
3.6	Temperature in °C	
0.189	Ammonia in mg/L	
74.8	Hardness in mg/L CaCO_3	
	Salinity in ppt	
0	Antimony in µg/L	no
0.93	Arsenic in µg/L	no
0	Cadmium in µg/L	yes
0.65	Chromium III in µg/L	yes
0	Chromium VI in µg/L	yes
3.44	Copper in µg/L	yes
448	Iron in µg/L	yes
1.16	Lead in µg/L	yes
0	Mercury in µg/L	yes
0.65	Nickel in µg/L	yes
0	Selenium in µg/L	yes
0	Silver in µg/L	yes
24.7	Zinc in µg/L	yes

Enter **influent** concentrations in the units specified

↓

0	TRC in µg/L
0	Ammonia in mg/L
0	Antimony in µg/L
10.9	Arsenic in µg/L
0	Cadmium in µg/L
13	Chromium III in µg/L
0	Chromium VI in µg/L
0	Copper in µg/L
0	Iron in µg/L
530	Lead in µg/L
0.5	Mercury in µg/L
0	Nickel in µg/L
0	Selenium in µg/L
0	Silver in µg/L
319	Zinc in µg/L
183	Cyanide in µg/L
0	Phenol in µg/L
0	Carbon Tetrachloride in µg/L
0	Tetrachloroethylene in µg/L
0	Total Phthalates in µg/L
0	Diethylhexylphthalate in µg/L
0	Benzo(a)anthracene in µg/L
0	Benzo(a)pyrene in µg/L
0	Benzo(b)fluoranthene in µg/L
0	Benzo(k)fluoranthene in µg/L
0	Chrysene in µg/L
0	Dibenzo(a,h)anthracene in µg/L
0	Indeno(1,2,3-cd)pyrene in µg/L
0	Methyl-tert butyl ether in µg/L

Notes: Revised 1-24-20

Freshwater: leave 0 unless 7Q10 or alternate Q_R AND a dilution factor >1 approved by the State;

Saltwater (estuarine and marine): leave 0 unless Q_R approved by the State

Enter the design flow or 1 MGD, whichever is less (100 gpm design flow = 0.144 MGD and is entered by

Leave 0 unless Q_R approved by the State

Freshwater: leave 0

Saltwater (estuarine and marine): leave 0 unless DF approved by the State

Applies to freshwater receiving waters only

pH, temperature, and ammonia required for all discharges

Hardness required for freshwater

Salinity required for saltwater (estuarine and marine)

Metals required for all discharges if detected in the influent and if dilution factor approved by State

Enter 0 if non-detect or testing not required

If receiving water is not listed as impaired for metals in State 303(d) List, change to "no" using dropdown

if >1 sample, enter maximum influent measurement

if >10 samples, may enter 95th percentile of influent measurements using

EPA's *Technical Support Document for Water Quality-based Toxics Control*

Enter 0 if non-detect or testing not required

Category 5 waters listed alphabetically by major watershed
The 303(d) List – "Waters requiring a TMDL"

Water Body	Segment ID	Description	Size	Units	Impairment	EPA TMDL No.
Charles River	MA72-36	From Watertown Dam (NATID: MA00456), Watertown to the Boston University Bridge, Boston/Cambridge (formerly part of segment MA72-08).	6.10	Miles	(Fish Passage Barrier*)	
					(Flow Regime Modification*)	
					(Non-Native Aquatic Plants*)	
					Chlorophyll-a	33826
					DDT in Fish Tissue	
					Dissolved Oxygen	
					Escherichia Coli (E. Coli)	32371
					Fish Bioassessments	
					Harmful Algal Blooms	33826
					Nutrient/Eutrophication Biological Indicators	33826
					Oil and Grease	
					PCBs In Fish Tissue	
					pH, High	
					Phosphorus, Total	33826
					Sediment Bioassay (Acute Toxicity Freshwater)	
Charles River	MA72-38	From Boston University Bridge, Boston/Cambridge to mouth at the New Charles River Dam (NATID: MA01092), Boston (formerly part of segment MA72-08).	3.10	Miles	Transparency / Clarity	33826
					Unspecified Metals in Sediment	
					(Flow Regime Modification*)	
					Cause Unknown (Sediment Screening Value (Exceedence))	
					Chlorophyll-a	33826
					Combined Biota/Habitat Bioassessments	
					DDT in Fish Tissue	
					Dissolved Oxygen	
					Dissolved Oxygen Supersaturation	33826
					Escherichia Coli (E. Coli)	32371
					Harmful Algal Blooms	33826
					Nutrient/Eutrophication Biological Indicators	33826
					Odor	33826
					Oil and Grease	
					PCBs In Fish Tissue	
Chicken Brook	MA72-34	Source, outlet Waseeka Sanctuary Pond, Holliston to mouth at confluence with the Charles River, Medway.	7.40	Miles	Phosphorus, Total	33826
					Salinity	
Crystal Lake	MA72030	Newton.	27.00	Acres	Temperature	
					Transparency / Clarity	33826
					Escherichia Coli (E. Coli)	
					Harmful Algal Blooms	



From: [Ruan, Xiaodan \(DEP\)](#)
To: [Smith, Brandon](#)
Cc: [Vakalopoulos, Catherine \(DEP\)](#)
Subject: RE: Proposed Gas Transfer Station, Kendall Station - RGP Dilution Factor
Date: Tuesday, January 25, 2022 11:27:29 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[BroadCanal.pdf](#)

Thanks, Brandon, for the information about the outfall.

Because the outfall is at the Broad Canal and not directly to the Charles River, no dilution will be allowed because the Broad Canal is stormwater dominant and does not receive enough flow. It is similar to the Lechmere Canal, where there is no dilution because it does not receive enough flow. I have also attached the StreamStats report showing that a 7Q10 is not available for Broad Canal.

Here is water quality information in assisting you in filling out the NOI:

Waterbody and ID: Broad Canal to Charles River (MA72-38) within Charles River Watershed
Classification: B
Outstanding Resource Water?: no
State's most recent Integrated List is located
here: <https://www.epa.gov/sites/production/files/2020-01/documents/2016-ma-303d-list-report.pdf>, search for "MA72-38" to see the causes of impairments.
TMDLs: there are two approved TMDL (pathogen and nutrients) for this segment.

As you may know, if this is not a *current* MCP site, then in addition to submitting the NOI to EPA, you need to apply with MassDEP and submit a \$500 fee (unless fee exempt, e.g., municipality). For MassDEP's application, please use ePLACE, an online application submittal process where you will set up a user ID and be able to submit NOIs for various projects as well as pay by credit card. The instructions are located on this page: <https://www.mass.gov/how-to/wm-15-npdes-general-permit-notice-of-intent>. Technical assistant information is available on the front page of the ePLACE application webpage.

Please let me know if you have any questions.

Thanks,
Xiaodan

Xiaodan Ruan
Environmental Engineer
Massachusetts Department of Environmental Protection
One Winter Street, Boston, MA 02108
(857)-256-4172
xiaodan.ruan@mass.gov

From: Smith, Brandon <Brandon.Smith@tetrattech.com>
Sent: Tuesday, January 25, 2022 10:12 AM
To: Ruan, Xiaodan (DEP) <xiaodan.ruan@mass.gov>
Cc: Vakalopoulos, Catherine (DEP) <catherine.vakalopoulos@mass.gov>
Subject: RE: Proposed Gas Transfer Station, Kendall Station - RGP Dilution Factor

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Hi Xiaodan,

No problem at all, I just wanted to check in. The outfall our client is planning on using is Outfall D51 that discharges into Broad Canal then the Charles River.

v/R,
Brandon

Brandon E. Smith, P.E., CHMM | Project Manager / Environmental Engineer
Direct +1 (603) 328-1470 | Business +1 (603) 328-1558 | Mobile +1 (781) 526-1484 |
brandon.smith@tetrattech.com

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5 Industrial Way, Suite 2B | Salem, NH 03079 | tetrattech.com

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From: Ruan, Xiaodan (DEP) <xiaodan.ruan@state.ma.us>
Sent: Tuesday, January 25, 2022 9:39 AM
To: Smith, Brandon <Brandon.Smith@tetrattech.com>
Cc: Vakalopoulos, Catherine (DEP) <catherine.vakalopoulos@state.ma.us>
Subject: RE: Proposed Gas Transfer Station, Kendall Station - RGP Dilution Factor

Hi Brandon,

Thanks for checking in. I was going to reply to you today. I looked at this last week and had a question that I needed to discuss with Cathy, I will get back to you today.
Could you provide the outfall location for the storm drain? It may affect which point to click on in StreamStats to run the 7Q10.

Thanks,
Xiaodan

Xiaodan Ruan
Environmental Engineer
Massachusetts Department of Environmental Protection
One Winter Street, Boston, MA 02108
(857)-256-4172
xiaodan.ruan@mass.gov

From: Smith, Brandon <Brandon.Smith@tetrattech.com>
Sent: Tuesday, January 25, 2022 8:48 AM
To: Vakalopoulos, Catherine (DEP) <catherine.vakalopoulos@mass.gov>; Ruan, Xiaodan (DEP) <xiaodan.ruan@mass.gov>
Subject: RE: Proposed Gas Transfer Station, Kendall Station - RGP Dilution Factor

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Good Morning,

I was just checking to see if you had a chance to review the RGP dilution factor for the Propose Gas Transfer Station at Kendall Station in Cambridge?

Sorry for the confusion with the Newton typo.

Thank you,
Brandon

Brandon E. Smith, P.E., CHMM | Project Manager / Environmental Engineer
Direct +1 (603) 328-1470 | Business +1 (603) 328-1558 | Mobile +1 (781) 526-1484 |
brandon.smith@tetrattech.com

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From: Vakalopoulos, Catherine (DEP) <catherine.vakalopoulos@state.ma.us>

Sent: Wednesday, January 19, 2022 2:53 PM
To: Ruan, Xiaodan (DEP) <xiaodan.ruan@state.ma.us>
Cc: Smith, Brandon <Brandon.Smith@tetrattech.com>
Subject: Fw: Proposed Gas Transfer Station, Kendall Station - RGP Dilution Factor

Hi Xiaodan,
Please review this when you have the chance. Thanks for your help!
Cathy

Cathy Vakalopoulos
Massachusetts Department of Environmental Protection
1 Winter St., Boston, MA 02108, 617-348-4026
[Please consider the environment before printing this e-mail](#)

From: Smith, Brandon <Brandon.Smith@tetrattech.com>
Sent: Tuesday, January 18, 2022 1:58 PM
To: Vakalopoulos, Catherine (DEP) <catherine.vakalopoulos@mass.gov>
Subject: Proposed Gas Transfer Station, Kendall Station - RGP Dilution Factor

CAUTION: This email originated from a sender outside of the Commonwealth of Massachusetts mail system. Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Hi Cathy,

I am currently preparing a NOI for BioMed Realty to discharge under the RGP for the proposed New Gas Transfer Project located at near 265 First Street Cambridge in Newton. The Contractor would like to discharge treated water off-site into a storm drain that discharges in to the Charles River (MA72-38). Before we submit our NOI to the EPA, I wanted to confirm the dilution factor we planned to use.

Here is what I calculated (the Streamstats sheet for the Charles River is attached):

7Q10 for Charles River: 29.7 cfs = 19.20 MGD

Design flow: 100 gpm = 0.144 MGD

$DF = (19.20 + 0.144) / 0.144 = 134.3$

Can you please confirm if this DF is acceptable?

Thank you,
Brandon Smith

Brandon E. Smith, P.E., CHMM | Project Manager / Environmental Engineer

Direct +1 (603) 328-1470 | Business +1 (603) 328-1558 | Mobile +1 (781) 526-1484 | brandon.smith@tetrattech.com

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Appendix C

Additional NOI Supporting
Information

City of Cambridge Stormwater Catchment Areas and Outfalls

Date: 06/15/2021

Catchment Areas

Combined

D01- CAM017
D03- Prison Point
D03A- Prison Point
D17- Cottage Farm
D20- Cottage Farm
D22- CAM011
D24- Cottage Farm
D26- CAM009
D29- CAM007
D30- Cottage Farm
D32- CAM005
D37- CAM401A
D39- MWR003/CAM401A
D41- CAM002
D43- CAM001

Separated

D02- Lechmere Canal
D03B- Museum Way
D03C- North Point
D03D- Lechmere Canal
D04- Main St
D05- Wadsworth St
D06- Ames St
D07- Broad Canal
D08- Mass Ave at Memorial Dr
D09- Danforth St
D10- Endicott St
D11- Amesbury St
D12- Talbot St
D15- Pearl St
D16- Pleasant St
D17A- Western Ave
D18- Hingham St
D19- Flagg St
D21- Dewolf St
D23- JFK East
D25- JFK West
D27- University Rd
D28- Brewer St
D31- Spark St
D33- Blanchard Rd at Wellington Brook
D33A- Blanchard Rd
D34- Normandy Terr
D36- Stormwater Wetland
D36R_2/3/4- Local Drainage (Fresh Pond)
D38- North of Cambridgepark Dr
D40- Harrison Ave
D44- Matignon Rd
D46- Acorn Park Dr
D50- Cemetery Drainage 237
D51- Kendall St
D52_3/4/5- Russel Field
D53- Binney St
D55- River St
D56- Cemetery Drainage 104
IC-1- Shady Hill School

Catchments

- MS4 Stormwater Catchments
- Combined Sewer Catchments
- Non-MS4/Non-Cambridge (Owned by others) Stormwater Catchments
- Proposed Stormwater Catchments

Outfalls

- Active Combined Sewer Overflow (CSO) Outfalls
- Inactive CSO Outfalls
- Proposed Stormwater Outfall
- Stormwater Outfall
- Interconnection
- Connection Points from Belmont
- Stormwater Outfall not discharging to Waters of the U.S.
- Water Segment Divide
- Watershed Divide
- Wetlands



Blacks Nook (Segment MA71005)

Impairments: (Non-Native Aquatic Plants*) Nutrient/Eutrophication Biological Indicators Transparency/Clarity *TMDL Not Required (Non-Pollutant)	Monitoring Requirements: No Monitoring Requirements Total Phosphorus Total Suspended Solids
--	---

Alewiffe Brook (Segment MA71-04)

Impairments: (Debris*) (Trash*) Copper DO E. coli Floculant Masses Lead Odor Oil and Grease PCB in Fish Tissue Total Phosphorus Scum/Foam Sediment Bioassays -- Chronic Toxicity Freshwater Transparency/Clarity *TMDL Not Required (Non-Pollutant)	Monitoring Requirements: No Monitoring Requirements No Monitoring Requirements Copper, Total Dissolved Oxygen, Temperature, BOD5, Total Phosphorus E. coli Contact MassDEP Lead, Total No Monitoring Requirements Oil and Grease No Monitoring Requirements Total Phosphorus Contact MassDEP Contact MassDEP Total Suspended Solids
--	---

Millers River (Segment MA72-31)

Impairments: (Bottom Deposits*) (Habitat Assessment*) (Trash*) Floculant Masses Metals Odor Oil and Grease Petroleum Hydrocarbons Polychlorinated Biphenyls (PCBs) Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems) Scum/Foam Sedimentation/Siltation Turbidity *TMDL Not Required (Non-Pollutant)	Monitoring Requirements: Total Suspended Solids No Monitoring Requirements Contact MassDEP No Monitoring Requirements Contact MassDEP Contact MassDEP No Monitoring Requirements Oil and Grease Oil and Grease No Monitoring Requirements PAHs Contract MassDEP Total Suspended Solids Turbidity
---	---

Charles River (Segment MA72-38)

Impairments: (Flow regime modification*) Cause Unknown- (Sediment Screening Value Exceedance) Chlorophyll-a Combined Biota/Habitat-- Bioassessments DO and DO Supersaturation DDT in Fish Tissue E. coli Harmful Algal Blooms Nutrient/Eutrophication -- Biological Indicators Odor Oil and Grease PCB in Fish Tissue Salinity Total Phosphorus Temperature Transparency/Clarity *TMDL Not Required (Non-Pollutant)	Monitoring Requirements: No Monitoring Requirements Contact MassDEP Total Phosphorus Contact MassDEP Dissolved Oxygen, Temperature, BOD5, Total Phosphorus No Monitoring Requirements E. coli Total Phosphorus Total Phosphorus No Monitoring Requirements Oil and Grease No Monitoring Requirements Specific Conductance Total Phosphorus No Monitoring Requirements Total Suspended Solids
--	---

Charles River (Segment MA72-36)

Impairments: (Fish-Passage Barrier*) (Flow Regime modification*) (Non-Native Aquatic Plants*) Chlorophyll-a Dissolved Oxygen (DO) DDT in Fish Tissue E. coli Fish Bioassessments Harmful Algal Blooms Nutrient/Eutrophication Biological Indicators Oil and Grease PCB in Fish Tissue High pH Total Phosphorus Sediment Bioassays -- Acute Toxicity Freshwater Transparency/Clarity Unspecified Metals in Sediment *TMDL Not Required (Non-Pollutant)	Monitoring Requirements: No Monitoring Requirements No Monitoring Requirements No Monitoring Requirements Total Phosphorus Dissolved Oxygen, Temperature, BOD5, Total Phosphorus No Monitoring Requirements E. coli Contact MassDEP Total Phosphorus Total Phosphorus Oil and Grease No Monitoring Requirements pH Total Phosphorus Contact MassDEP Toxicity Freshwater Total Suspended Solids Contact MassDEP
---	--



Search



Selection



Maps

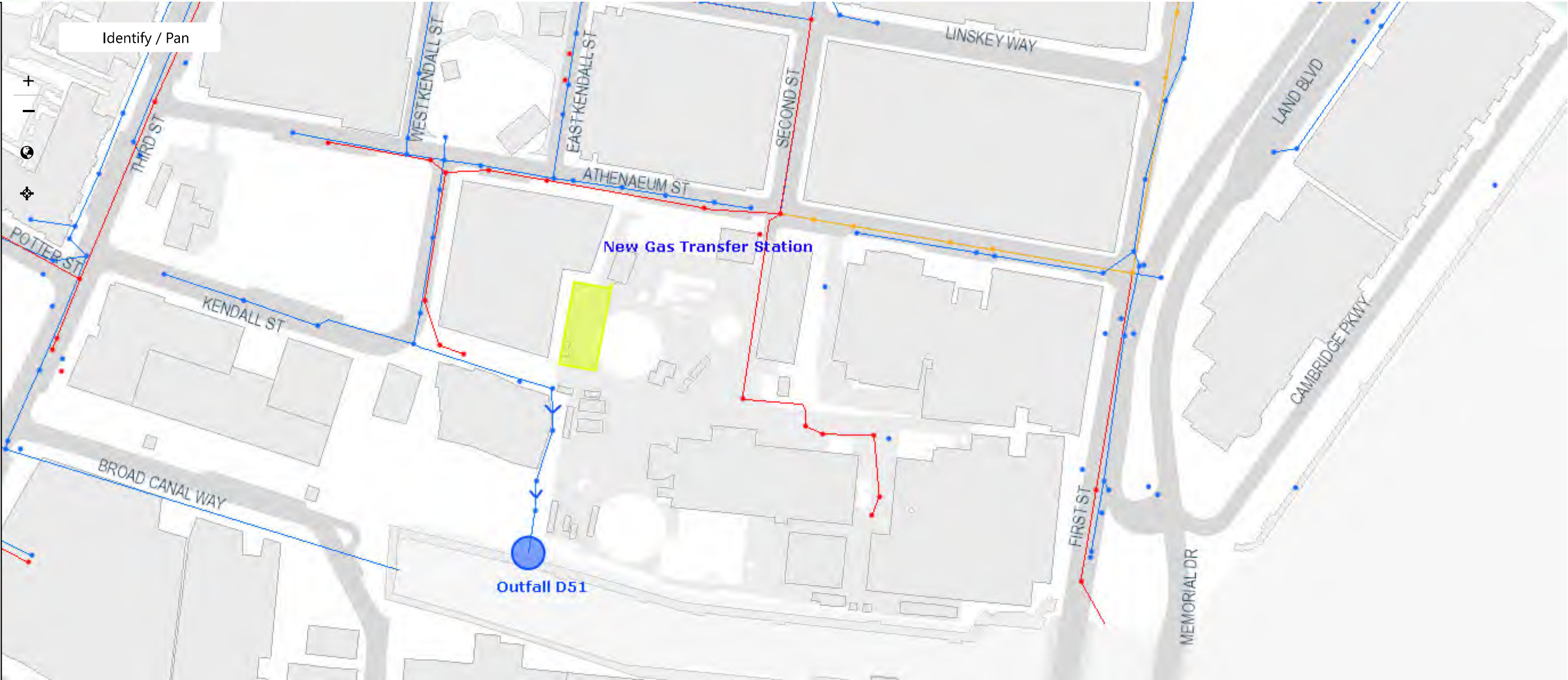


Draw



Share

Identify / Pan



IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Middlesex and Suffolk counties, Massachusetts



Local office

New England Ecological Services Field Office

☎ (603) 223-2541

📠 (603) 223-0104

70 Commercial Street, Suite 300
Concord, NH 03301-5094

<http://www.fws.gov/newengland>

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Insects

NAME

STATUS

Wherever found

No critical habitat has been designated for this species.

<http://ecos.fws.gov/ecp/species/9743>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Bald Eagle *Haliaeetus leucocephalus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<http://ecos.fws.gov/ecp/species/1626>

Breeds Oct 15 to Aug 31

Black-billed Cuckoo *Coccyzus erythrophthalmus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<http://ecos.fws.gov/ecp/species/9399>

Breeds May 15 to Oct 10

Blue-winged Warbler *Vermivora pinus*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds May 1 to Jun 30

Bobolink *Dolichonyx oryzivorus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 20 to Jul 31

Canada Warbler *Cardellina canadensis*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 20 to Aug 10

Cerulean Warbler *Dendroica cerulea*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<http://ecos.fws.gov/ecp/species/2974>

Breeds Apr 29 to Jul 20

Kentucky Warbler *Oporornis formosus*

Breeds Apr 20 to Aug 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Lesser Yellowlegs *Tringa flavipes*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<http://ecos.fws.gov/ecp/species/9679>

Prairie Warbler *Dendroica discolor*

Breeds May 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Prothonotary Warbler *Protonotaria citrea*

Breeds Apr 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Red-headed Woodpecker *Melanerpes erythrocephalus*

Breeds May 10 to Sep 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Rusty Blackbird *Euphagus carolinus*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Wood Thrush *Hylocichla mustelina*

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

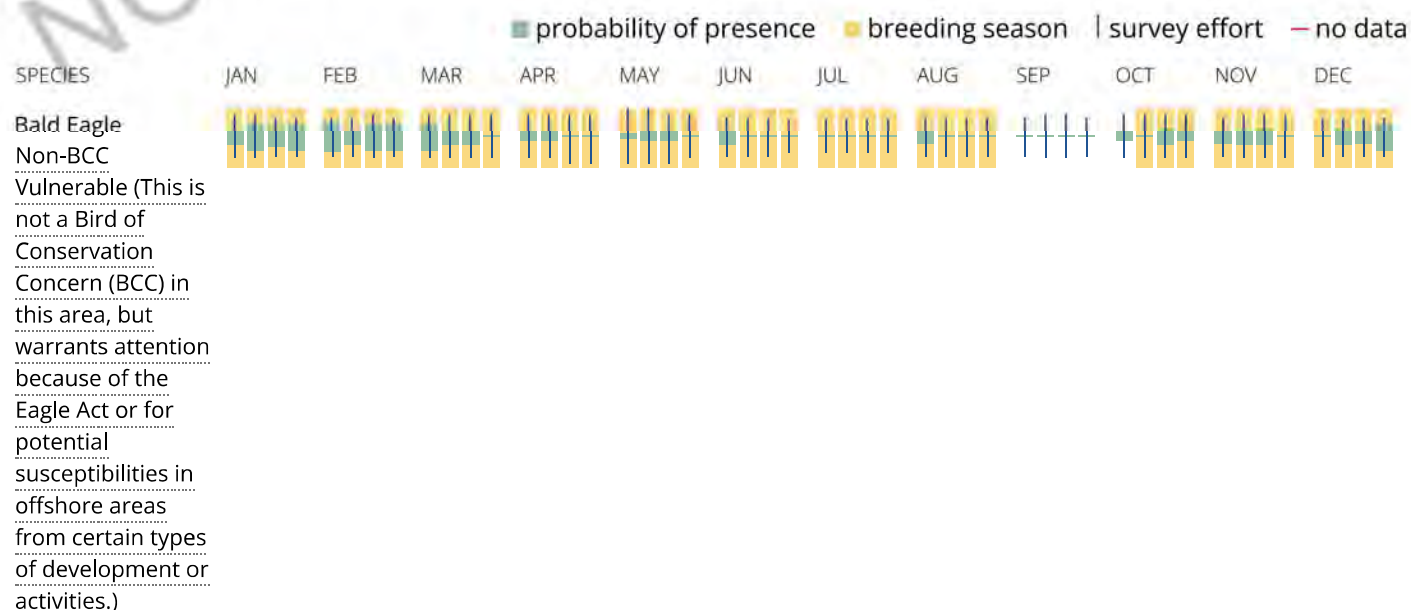
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Black-billed
Cuckoo



BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)

Blue-winged
Warbler



BCC - BCR (This is a
Bird of
Conservation
Concern (BCC) only
in particular Bird
Conservation
Regions (BCRs) in
the continental
USA)

Bobolink



BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)

Canada Warbler



BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)

Cerulean Warbler



BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)

Kentucky Warbler
BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)



Lesser Yellowlegs
BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)



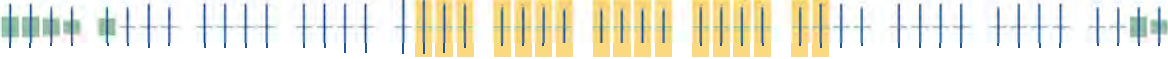
Prairie Warbler
BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)

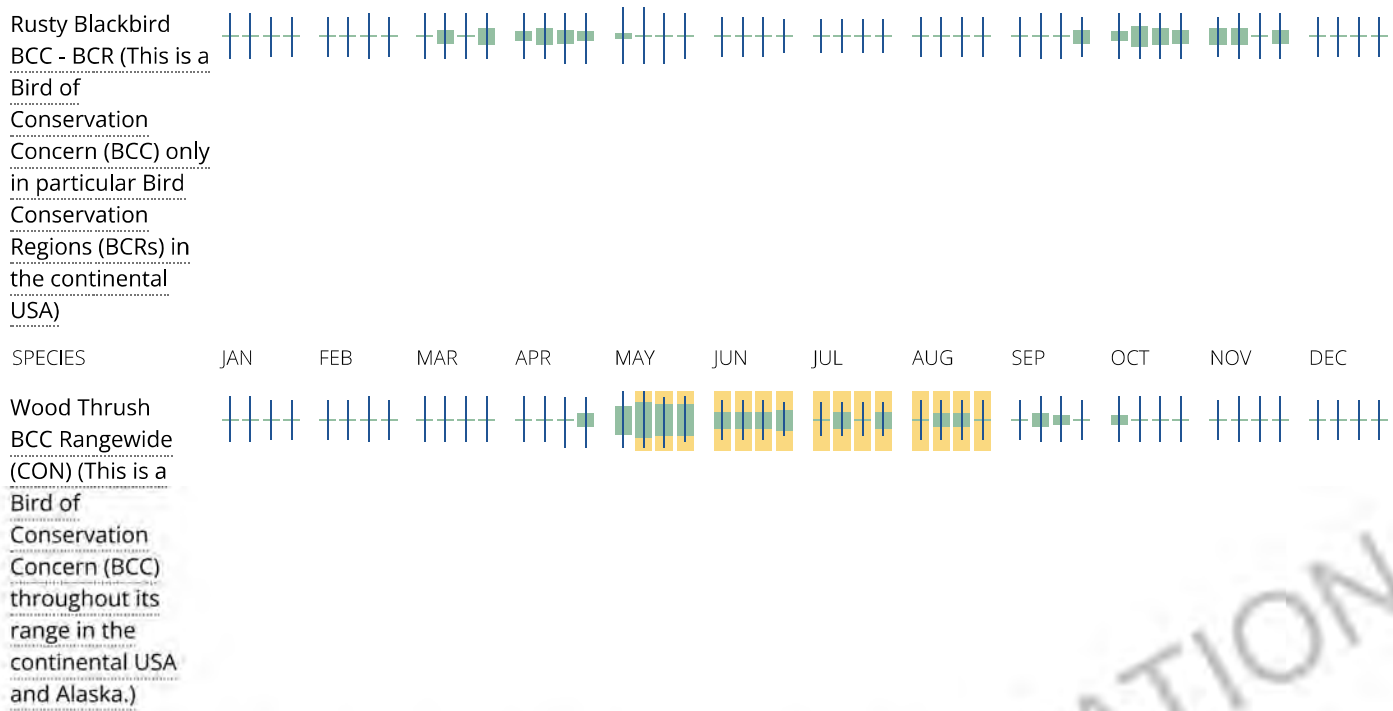


Prothonotary Warbler
BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)



Red-headed Woodpecker
BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental USA
and Alaska.)





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km

grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

ESTUARINE AND MARINE DEEPWATER

[E1UBLx](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Cambridge; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
CAM.A	Cambridge Common Historic District		Cambridge	
CAM.B	Lockhart, William L. and Company Coffin Factory		Cambridge	
CAM.C	Blake and Knowles Steam Pump Company		Cambridge	
CAM.D	Fort Washington Historic District		Cambridge	
CAM.E	East Cambridge Historic District		Cambridge	
CAM.F	Winter Street Historic District		Cambridge	
CAM.G	Cambridge Multiple Resource Area		Cambridge	
CAM.H	Lechmere Point Corporation Houses		Cambridge	
CAM.I	Sacred Heart Church, Rectory, School and Convent		Cambridge	
CAM.J	Upper Magazine Street Historic District		Cambridge	
CAM.K	Hastings Square Historic District		Cambridge	
CAM.L	Salem - Auburn Streets Historic District		Cambridge	
CAM.M	Inman Square Historic District		Cambridge	
CAM.N	Old Cambridgeport Historic District		Cambridge	
CAM.O	Norfolk Street Historic District		Cambridge	
CAM.P	Massachusetts Institute of Technology		Cambridge	
CAM.Q	Central Square Historic District		Cambridge	
CAM.R	Bigelow Street Historic District		Cambridge	
CAM.S	Garfield Street Historic District		Cambridge	
CAM.T	Harvard Street Historic District		Cambridge	
CAM.U	Kirkland Place Historic District		Cambridge	
CAM.V	Maple Avenue Historic District		Cambridge	
CAM.W	City Hall Historic District		Cambridge	
CAM.X	Shady Hill Historic District		Cambridge	
CAM.Y	Ash Street Historic District		Cambridge	
CAM.Z	Avon Hill Historic District		Cambridge	

Inv. No.	Property Name	Street	Town	Year
CAM.AA	Berkeley Street Historic District		Cambridge	
CAM.AB	Harvard Square Historic District		Cambridge	
CAM.AC	Harvard Houses Historic District		Cambridge	
CAM.AD	Harvard Yard Historic District		Cambridge	
CAM.AE	Old Cambridge Historic District		Cambridge	
CAM.AF	Gray Gardens East and West Historic District		Cambridge	
CAM.AG	Memorial Drive Apartments Historic District		Cambridge	
CAM.AH	Follen Street Historic District		Cambridge	
CAM.AI	Bennink - Douglas Cottages		Cambridge	
CAM.AJ	Charles River Basin Historic District		Cambridge	
CAM.AK	Boston Woven Hose and Rubber Complex		Cambridge	
CAM.AL	Fresh Pond		Cambridge	
CAM.AM	Old Cambridge Historic District		Cambridge	
CAM.AN	Harvard Riverfront		Cambridge	
CAM.AO	East Cambridge		Cambridge	
CAM.AP	Hubbard Park Historic District		Cambridge	
CAM.AQ	Davenport - Allen and Endicott Factory		Cambridge	
CAM.AR	Mount Auburn Cemetery		Cambridge	
CAM.AS	Metropolitan Park System of Greater Boston		Cambridge	
CAM.AT	Elmwood (James Russell Lowell House)		Cambridge	
CAM.AU	Christ Church		Cambridge	
CAM.AV	Blake and Knowles Steam Pump Company		Cambridge	
CAM.AW	Alewife Brook Parkway		Cambridge	
CAM.AX	Fresh Pond Parkway		Cambridge	
CAM.AY	Church of the Blessed Sacrament Catholic Church		Cambridge	
CAM.AZ	Immaculate Conception Roman Catholic Church		Cambridge	
CAM.BA	Immaculate Conception (Lithuanian) Catholic Church		Cambridge	
CAM.BB	Orchard Street Area		Cambridge	
CAM.BC	Central Square Historic District		Cambridge	
CAM.BD	Cambridge Common Historic District		Cambridge	
CAM.BE	Old Harvard Yard		Cambridge	
CAM.BF	Berkeley Street Historic District		Cambridge	
CAM.BG	Harvard Square Historic District		Cambridge	
CAM.BH	Volpe Center		Cambridge	
CAM.1	Wyeth, John House	56 Aberdeen Ave	Cambridge	1841
CAM.1009		24 Agassiz St	Cambridge	1889

Inv. No.	Property Name	Street	Town	Year
CAM.1010	Shaw, Edward L. House	30 Agassiz St	Cambridge	1890
CAM.1011	Sands, M. Winslow House	32 Agassiz St	Cambridge	1891
CAM.1012	Blackman, Horace House	33 Agassiz St	Cambridge	1890
CAM.1353	Standard Plate Glass Company Building	270 Albany St	Cambridge	1920
CAM.902	Alewife Brook Parkway Bridge over B & M Railroad	Alewife Brook Pkwy	Cambridge	1929
CAM.903	Alewife Brook Parkway Bridge over B & M Railroad	Alewife Brook Pkwy	Cambridge	1929
CAM.9012	Alewife Brook Parkway - Northern Segment	Alewife Brook Pkwy	Cambridge	1908
CAM.9013	Alewife Brook Parkway Tree Border	Alewife Brook Pkwy	Cambridge	r 1920
CAM.1372	Immaculate Conception Roman Catholic Church	45 Alewife Brook Pkwy	Cambridge	1929
CAM.1373	Immaculate Conception Catholic Church Rectory	45 Alewife Brook Pkwy	Cambridge	1935
CAM.359		6-24 Allston St	Cambridge	1946
CAM.2	Fay, Isaac House	125 Antrim St	Cambridge	1843
CAM.3	Withey, S. B. House	10 Appian Way	Cambridge	1855
CAM.4	Howe, Lois Lilly House	6 Appleton St	Cambridge	1887
CAM.5	Cook, William House	71 Appleton St	Cambridge	1876
CAM.1016		8-10 Arlington St	Cambridge	1864
CAM.1027	Aldrich, Frank A. House	11 Arlington St	Cambridge	1899
CAM.1017		12-14 Arlington St	Cambridge	1864
CAM.1028	Graustein, Adolph H. House	19 Arlington St	Cambridge	1902
CAM.1018		22 Arlington St	Cambridge	1862
CAM.1019	Fillmore, Wellington House	24 Arlington St	Cambridge	1869
CAM.1347		25 Arlington St	Cambridge	
CAM.1020	Moor, Rev. Clark House	26 Arlington St	Cambridge	1869
CAM.1021	Blackman, Horace P. House	28 Arlington St	Cambridge	1876
CAM.1022		30 Arlington St	Cambridge	1876
CAM.1023	Jameson, Edwin A. L. House	32 Arlington St	Cambridge	1872
CAM.1029	Davis, John House	33 Arlington St	Cambridge	1869
CAM.1024		36 Arlington St	Cambridge	1872
CAM.1030	Kelsey, Albert House	37 Arlington St	Cambridge	1875
CAM.1025	Moor, Rev. Clark Double House	38-40 Arlington St	Cambridge	1874
CAM.1026	Boardman, Charles House	42 Arlington St	Cambridge	1871
CAM.1061	Harvard Catholic Student Center	20 Arrow St	Cambridge	c 1890
CAM.1062	Saint Paul's Church	24 Arrow St	Cambridge	r 1920
CAM.784	Brooks, John House	5 Ash St	Cambridge	1887
CAM.6	Johnson, Philip House	9 Ash St	Cambridge	1942
CAM.785	Ela, Lucia House	13 Ash St	Cambridge	1869

Inv. No.	Property Name	Street	Town	Year
CAM.787	Eliot, T. S. House	16 Ash St	Cambridge	1855
CAM.786	Nowell, Henry House	19 Ash St	Cambridge	1825
CAM.788	Hunnewell, James A. House	6 Ash Street Pl	Cambridge	1848
CAM.522		107 Auburn St	Cambridge	1803
CAM.523		108-110 Auburn St	Cambridge	1803
CAM.524		114 Auburn St	Cambridge	c 1844
CAM.525		119 Auburn St	Cambridge	c 1829
CAM.526		122 Auburn St	Cambridge	c 1840
CAM.527		131 Auburn St	Cambridge	c 1830
CAM.528		134 Auburn St	Cambridge	c 1845
CAM.7	Ellis, Asa House	158 Auburn St	Cambridge	1805
CAM.564	Hotel Eliot	66 Austin St	Cambridge	c 1885
CAM.565	Hotel Austin	70 Austin St	Cambridge	c 1885
CAM.8	Brabrook, Ezra H. House	42-44 Avon St	Cambridge	1849
CAM.352	Blake and Knowles Main Foundry	180 Bent St	Cambridge	c 1895
CAM.1035		1 Berkeley Pl	Cambridge	1892
CAM.1036		2 Berkeley Pl	Cambridge	1892
CAM.1037		3 Berkeley Pl	Cambridge	1892
CAM.1038		4 Berkeley Pl	Cambridge	1910
CAM.1039		5 Berkeley Pl	Cambridge	1900
CAM.1040		6 Berkeley Pl	Cambridge	1914
CAM.1041		7 Berkeley Pl	Cambridge	1913
CAM.1042		8 Berkeley Pl	Cambridge	1931
CAM.1043	Pryor - Brown House	1 Berkeley St	Cambridge	1852
CAM.10	Thayer, Prof. Studio	2 1/2 Berkeley St	Cambridge	1894
CAM.1044	Pryor - Howells House	3 Berkeley St	Cambridge	1856
CAM.1045	Dana, Richard H. House	4 Berkeley St	Cambridge	1851
CAM.1046	Wyeth - Allen House	5-7R Berkeley St	Cambridge	1852
CAM.1047		6 Berkeley St	Cambridge	1853
CAM.1048	Ware, Henry House	8 Berkeley St	Cambridge	1859
CAM.1049	Allyn, John House	11 Berkeley St	Cambridge	1886
CAM.1050		12 Berkeley St	Cambridge	1881
CAM.1051		13 Berkeley St	Cambridge	1898
CAM.1052	Williston, Lyman House	15 Berkeley St	Cambridge	1863
CAM.1053		16 Berkeley St	Cambridge	1905
CAM.1054		17 Berkeley St	Cambridge	1863
CAM.1055		19 Berkeley St	Cambridge	1854
CAM.1056	Newell, William House	20 Berkeley St	Cambridge	1856

Inv. No.	Property Name	Street	Town	Year
CAM.1057		21 Berkeley St	Cambridge	1854
CAM.1058	Fiske, John House	22 Berkeley St	Cambridge	1877
CAM.1059		23 Berkeley St	Cambridge	1854
CAM.1060		24 Berkeley St	Cambridge	1936
CAM.1355	Craft, William House	5 Bigelow St	Cambridge	1869
CAM.1356	Sharry, William J. House	5A Bigelow St	Cambridge	1940
CAM.663	Montague, Charles House	6 Bigelow St	Cambridge	1873
CAM.655	Snow, Simeon House	7 Bigelow St	Cambridge	1869
CAM.1360	Rhodes, Silas Jr. House	8 Bigelow St	Cambridge	1871
CAM.656	Pollard, John Double House	9-11 Bigelow St	Cambridge	1874
CAM.664	Hurd, Theodore House	10-12 Bigelow St	Cambridge	1884
CAM.657	Bird, Henry House	13 Bigelow St	Cambridge	1874
CAM.1361	Pike, Walter House	14 Bigelow St	Cambridge	1888
CAM.658	Davis, Curtis House	15 Bigelow St	Cambridge	1873
CAM.1362	Brazier, Abbie House	16 Bigelow St	Cambridge	1874
CAM.659	Whitely, Hiram House	17 Bigelow St	Cambridge	1873
CAM.1363	Sawyer - Dole House	18 Bigelow St	Cambridge	1876
CAM.1357	Oxford, Charles House	19 Bigelow St	Cambridge	1871
CAM.660	Snow - Twitchell Double House	21-23 Bigelow St	Cambridge	1873
CAM.665	Hyde, Edward House	22 Bigelow St	Cambridge	1870
CAM.1348	Robbins Block	24-46 Bigelow St	Cambridge	1871
CAM.661	Jessop, Joseph House	25 Bigelow St	Cambridge	1872
CAM.1358	Jessop Tenement House	29 Bigelow St	Cambridge	1891
CAM.1359	Whitcomb, Peter Double House	31-33 Bigelow St	Cambridge	1872
CAM.662	Davis, John W. House	35 Bigelow St	Cambridge	1870
CAM.1406	Volpe Center - Shipping and Receiving	182 Binney St	Cambridge	1965
CAM.357	Blake and Knowles Machine Shop #2	195 Binney St	Cambridge	1917
CAM.358	Blake and Knowles Machine Shop #3	199 Binney St	Cambridge	1918
CAM.356	Blake and Knowles Erecting and Assembling Building	201 Binney St	Cambridge	1903
CAM.1388		39 Bishop Allen Dr	Cambridge	
CAM.1397	Hotel Greyburn	77 Bishop Allen Dr	Cambridge	1891
CAM.577	Young Women's Christian Association Building	146 Bishop Allen Dr	Cambridge	c 1954
CAM.1386	Squirrel Brand Company Building	8 Boardman St	Cambridge	1915
CAM.11	Slowey, Patrick House	73 Bolton St	Cambridge	1852
CAM.1063	Bicycle Exchange Building	3-7 Bow St	Cambridge	1901
CAM.1064		9 Bow St	Cambridge	1884
CAM.1065	Farwell - Russell, Thomas Store	12 Bow St	Cambridge	c 1830

Inv. No.	Property Name	Street	Town	Year
CAM.1066	Westmorly Court - Harvard University	15-29 Bow St	Cambridge	c 1898
CAM.12	Harvard Lampoon Building	44 Bow St	Cambridge	1909
CAM.1067	Randolph Hall - Harvard University	47-57 Bow St	Cambridge	1897
CAM.13	Frost, Elizabeth Tenant House	35 Bowdoin St	Cambridge	1812
CAM.926	Anderson, Larz Bridge	Boylston St	Cambridge	1915
CAM.14	Hicks, John House	64 Boylston St	Cambridge	c 1761
CAM.294	Radcliffe College Graduate Center	Brattle St	Cambridge	1955
CAM.918	Longfellow Park	Brattle St	Cambridge	1887
CAM.987	Lowell Park	Brattle St	Cambridge	
CAM.1068	Brattle Building	4 Brattle St	Cambridge	1913
CAM.1069	Atrium Building	9-11 Brattle St	Cambridge	1979
CAM.1071		12-16 Brattle St	Cambridge	1887
CAM.1070	Estes Block	13-15 Brattle St	Cambridge	1875
CAM.1072	Dow Block	17-35 Brattle St	Cambridge	c 1936
CAM.1073		18 Brattle St	Cambridge	1922
CAM.1074		26 Brattle St	Cambridge	1909
CAM.1075	Hadley Building	28-36 Brattle St	Cambridge	1974
CAM.1076	Cambridge Federal Savings Bank	38A Brattle St	Cambridge	1937
CAM.1077		39-41 Brattle St	Cambridge	1925
CAM.15	Brattle Hall	40 Brattle St	Cambridge	1889
CAM.1078		40A Brattle St	Cambridge	c 1925
CAM.16	Brattle, William House	42 Brattle St	Cambridge	c 1727
CAM.1079	Sage Building	43-45 Brattle St	Cambridge	1926
CAM.1080		44 Brattle St	Cambridge	1970
CAM.1081		46R Brattle St	Cambridge	1966
CAM.1082		47-49 Brattle St	Cambridge	c 1926
CAM.1083	Design Research Building	48 Brattle St	Cambridge	1969
CAM.1084	Washington Court	51 Brattle St	Cambridge	1905
CAM.17	Pratt, Dexter House	54 Brattle St	Cambridge	1808
CAM.1229	Warland, John House	69 Brattle St	Cambridge	1838
CAM.1230	Greenleaf, James House	76 Brattle St	Cambridge	1859
CAM.1228	Chamberlin, John House	77 Brattle St	Cambridge	1821
CAM.18	Radcliffe College Alumnae House	79 Brattle St	Cambridge	1836
CAM.19	Wadsworth Chambers	81-83 Brattle St	Cambridge	1908
CAM.20	Burleigh House	85 Brattle St	Cambridge	1847
CAM.21	Stoughton, Mary Fisk House	90 Brattle St	Cambridge	1882
CAM.22		92 Brattle St	Cambridge	1882
CAM.23	Vassall, Henry House	94 Brattle St	Cambridge	1635

Inv. No.	Property Name	Street	Town	Year
CAM.24	Episcopal Divinity School - Washburn Hall	99 Brattle St	Cambridge	1960
CAM.25	Saint John's Chapel	99 Brattle St	Cambridge	1868
CAM.26	Episcopal Divinity School Library - Sherrill Hall	99 Brattle St	Cambridge	1965
CAM.27	Episcopal Divinity School - Wright Hall	99 Brattle St	Cambridge	1911
CAM.28	Episcopal Divinity School - Reed Hall	99 Brattle St	Cambridge	1873
CAM.29	Episcopal Divinity School - Lawrence Hall	99 Brattle St	Cambridge	1873
CAM.30	Episcopal Divinity School - Burnham Hall	99 Brattle St	Cambridge	1879
CAM.31	Hastings, Oliver House	101 Brattle St	Cambridge	1844
CAM.32	Longfellow National Historic Site	105 Brattle St	Cambridge	c 1759
CAM.33	Dana, Edith Longfellow House	113 Brattle St	Cambridge	1887
CAM.34		114 Brattle St	Cambridge	1903
CAM.35	Thorp, Annie Longfellow House	115 Brattle St	Cambridge	1887
CAM.36	Worcester, Joseph House	121 Brattle St	Cambridge	1843
CAM.37		121A Brattle St	Cambridge	1941
CAM.38		123 Brattle St	Cambridge	
CAM.39		124 Brattle St	Cambridge	1915
CAM.40		125 Brattle St	Cambridge	1939
CAM.41		126 Brattle St	Cambridge	1890
CAM.1235		127 Brattle St	Cambridge	1970
CAM.42		128 Brattle St	Cambridge	1892
CAM.43		130-130R Brattle St	Cambridge	1886
CAM.44		132 Brattle St	Cambridge	1886
CAM.45	Falxa, Dr. Martin House	133 Brattle St	Cambridge	1970
CAM.46		134-136 Brattle St	Cambridge	1857
CAM.47		138 Brattle St	Cambridge	1930
CAM.48		140 Brattle St	Cambridge	1930
CAM.49		142 Brattle St	Cambridge	1915
CAM.50	Cambridge Armenian Church	143 Brattle St	Cambridge	1959
CAM.51		144 Brattle St	Cambridge	1915
CAM.52	Brewster, William House	145 Brattle St	Cambridge	1887
CAM.53		146 Brattle St	Cambridge	1939
CAM.54		147 Brattle St	Cambridge	1887
CAM.55		148 Brattle St	Cambridge	1914
CAM.56	Lechmere, Richard House	149 Brattle St	Cambridge	c 1762
CAM.57		150 Brattle St	Cambridge	1908
CAM.58		152 Brattle St	Cambridge	1887
CAM.59	Lee, Thomas House	153 Brattle St	Cambridge	1803
CAM.60		154 Brattle St	Cambridge	r 1865

Inv. No.	Property Name	Street	Town	Year
CAM.1236		155 Brattle St	Cambridge	1889
CAM.61		156 Brattle St	Cambridge	1867
CAM.62		158 Brattle St	Cambridge	1884
CAM.63	Hooper - Lee - Nichols House	159 Brattle St	Cambridge	c 1685
CAM.64		160 Brattle St	Cambridge	1884
CAM.65		164 Brattle St	Cambridge	1868
CAM.1237	Bartlett, John House	165 Brattle St	Cambridge	1873
CAM.66	Van Brunt, Henry House	167 Brattle St	Cambridge	1883
CAM.67		168 Brattle St	Cambridge	1888
CAM.68	Wells, Judge Daniel House	170 Brattle St	Cambridge	1852
CAM.69		174 Brattle St	Cambridge	1885
CAM.70	Marrett - Ruggles - Fayerweather House	175 Brattle St	Cambridge	r 1765
CAM.1238	Fayerweather House Squash Court and Garage	177 Brattle St	Cambridge	1915
CAM.71		180 Brattle St	Cambridge	1888
CAM.72	Richards, R. A. House	182 Brattle St	Cambridge	1895
CAM.73		190 Brattle St	Cambridge	1898
CAM.74	Frankfurter, Justice Felix House	192 Brattle St	Cambridge	1907
CAM.75		193 Brattle St	Cambridge	1893
CAM.76		194 Brattle St	Cambridge	1917
CAM.77		195 Brattle St	Cambridge	1896
CAM.78		198 Brattle St	Cambridge	1912
CAM.79	Stubbins, Hugh House	199 Brattle St	Cambridge	1966
CAM.80		200 Brattle St	Cambridge	1901
CAM.81		202 Brattle St	Cambridge	1903
CAM.82		205 Brattle St	Cambridge	r 1925
CAM.83		209 Brattle St	Cambridge	r 1925
CAM.84		213-215 Brattle St	Cambridge	1896
CAM.85	Frost, Robert House	29-35 Brewster St	Cambridge	1884
CAM.1402	Volpe Center - Auditorium	33 Broadway	Cambridge	c 1965
CAM.1409	Close, George Company Building	243 Broadway	Cambridge	1910
CAM.86	Cambridge Public Library	449 Broadway	Cambridge	1888
CAM.9021	Longfellow Monument	449 Broadway St	Cambridge	1914
CAM.515		301 Brookline Ave	Cambridge	1869
CAM.516		302 Brookline Ave	Cambridge	1887
CAM.517		308 Brookline Ave	Cambridge	1870
CAM.623	Southwick Block	11-19 Brookline St	Cambridge	1911
CAM.88	Brown, Daniel House	7 Brown St	Cambridge	1845
CAM.89	Hill, Aaron House	17 Brown St	Cambridge	c 1754

Inv. No.	Property Name	Street	Town	Year
CAM.708		1 Bryant St	Cambridge	1911
CAM.709		5 Bryant St	Cambridge	1916
CAM.710		7 Bryant St	Cambridge	1915
CAM.711		20-24 Bryant St	Cambridge	1916
CAM.712		21 Bryant St	Cambridge	1932
CAM.90	Bridgman, Percy House	10 Buckingham Pl	Cambridge	c 1920
CAM.91	Koch, Carl House	4 Buckingham St	Cambridge	1939
CAM.92	Higginson, Col. Thomas Wentworth House	29 Buckingham St	Cambridge	1880
CAM.941	Bridge, John Statue	Cambridge Common	Cambridge	1882
CAM.942	Memorial Gateway	Cambridge Common	Cambridge	1906
CAM.943	Revolutionary War Cannons	Cambridge Common	Cambridge	c 1770
CAM.944	Soldiers Monument	Cambridge Common	Cambridge	1869
CAM.906	Cambridge Parkway Bridge over Broad Canal	Cambridge Pkwy	Cambridge	1957
CAM.931	Cambridge Parkway	Cambridge Pkwy	Cambridge	1900
CAM.97	Memorial Hall	Cambridge St	Cambridge	r 1875
CAM.379	Middlesex County Registry of Deeds Building	Cambridge St	Cambridge	1896
CAM.380	Middlesex County Clerk of Courts Building	Cambridge St	Cambridge	1889
CAM.912	Longfellow Bridge - West Boston Bridge	Cambridge St	Cambridge	c 1907
CAM.914	Lechmere Square Streetcar Station	Cambridge St	Cambridge	1922
CAM.372		82-84 Cambridge St	Cambridge	1937
CAM.373	Davenport, A. H. - Irving and Casson Company	88-134 Cambridge St	Cambridge	1866
CAM.378		160 Cambridge St	Cambridge	1965
CAM.93	East Cambridge Savings Bank	292 Cambridge St	Cambridge	1931
CAM.94	Union Railway Car Barn	613-621 Cambridge St	Cambridge	1869
CAM.535		1353-1369 Cambridge St	Cambridge	1894
CAM.532	Waite Building	1368 Cambridge St	Cambridge	1855
CAM.533	Middlesex Bank Building	1374-1385 Cambridge St	Cambridge	1874
CAM.95		1707-1709 Cambridge St	Cambridge	1845
CAM.96		1715-1717 Cambridge St	Cambridge	1845
CAM.635	Holmes Block II - Green Block	2-14 Central Sq	Cambridge	1798
CAM.636	Home Realty Building	14 Central Sq	Cambridge	1970
CAM.639	Southwick Building I	15-16 Central Sq	Cambridge	1896
CAM.640	Southwick Building II	17-24 Central Sq	Cambridge	c 1860
CAM.641	White Tower Restaurant	25 Central Sq	Cambridge	1932
CAM.98	Melvin, Isaac House	19 Centre St	Cambridge	1842
CAM.99	Boston and Maine Railroad Signal Tower A	Charles River	Cambridge	1931
CAM.911	Charles River Railroad Draw Bridge #1	Charles River	Cambridge	1931
CAM.920	Charles River Dam	Charles River	Cambridge	r 1905

Inv. No.	Property Name	Street	Town	Year
CAM.925	Weeks, John Wingate Foot Bridge	Charles River	Cambridge	1927
CAM.928	Lechmere Canal	Charles River	Cambridge	1909
CAM.929	Broad Canal	Charles River	Cambridge	1805
CAM.932	Charles River Basin Granite Seawall and Iron Fence	Charles River	Cambridge	
CAM.935	Metropolitan District Commission Swimming Pool	Charles River	Cambridge	
CAM.1320	Metropolitan District Commission Chlorination Plant	Charles River	Cambridge	
CAM.1325	M. I. T. - Pierce, Harold Whitworth Boat House	Charles River	Cambridge	1965
CAM.1326	M. I. T. - Wood, Walter C. Sailing Pavilion	Charles River	Cambridge	1976
CAM.1328	Riverside Boat Club	Charles River	Cambridge	r 1910
CAM.543	Boardman, James Double House	Cherry St	Cambridge	1843
CAM.100	Fuller, Margaret House	71 Cherry St	Cambridge	1806
CAM.546		87 Cherry St	Cambridge	c 1845
CAM.545		116-120 Cherry St	Cambridge	c 1845
CAM.544	Eaton, Jacob House	128 Cherry St	Cambridge	c 1844
CAM.542		137-139 Cherry St	Cambridge	c 1840
CAM.537		149-151 Cherry St	Cambridge	c 1830
CAM.538		159-161 Cherry St	Cambridge	c 1830
CAM.547		167 Cherry St	Cambridge	1850
CAM.548		169 Cherry St	Cambridge	1850
CAM.101	Kingsley, Chester House	10 Chester St	Cambridge	1866
CAM.518		105 Chestnut St	Cambridge	1875
CAM.519		111 Chestnut St	Cambridge	1875
CAM.102	First Parish Church, Unitarian	1-3 Church St	Cambridge	1833
CAM.103		23-25 Church St	Cambridge	1936
CAM.1085		26-28 Church St	Cambridge	1857
CAM.104		27-29 Church St	Cambridge	1922
CAM.105	Cambridge Police Station	31-33 Church St	Cambridge	1864
CAM.1086	Oxford Grill	32-42 Church St	Cambridge	1931
CAM.1087	Hancock - Torrey House	53 Church St	Cambridge	1827
CAM.1088		54-56 Church St	Cambridge	1925
CAM.1089		59-63 Church St	Cambridge	1949
CAM.1377	Cambridge Almshouse Caretaker's House	36 Churchill Ave	Cambridge	c 1886
CAM.106	Gale, George House	14-16 Clinton St	Cambridge	c 1853
CAM.1387		41-43 Columbia St	Cambridge	
CAM.107	Beth Israel Synagogue	238 Columbia St	Cambridge	1901
CAM.908	Commercial Avenue Bridge over Lechmere Canal	Commercial Ave	Cambridge	1907

Inv. No.	Property Name	Street	Town	Year
CAM.1318	Metropolitan District Commission Stables	Commercial Ave	Cambridge	
CAM.336		3 Concord Ave	Cambridge	1915
CAM.337		5 Concord Ave	Cambridge	c 1917
CAM.108	Howells, William Dean House	37 Concord Ave	Cambridge	1873
CAM.1365	Cambridge Home for the Aged and Infirm	650 Concord Ave	Cambridge	1928
CAM.111	Holmes, Joseph House	144 Coolidge Hill	Cambridge	1801
CAM.109	Orne, Sarah House	10 Coolidge Hill Rd	Cambridge	1807
CAM.110	Coolidge, Josiah House	24 Coolidge Hill Rd	Cambridge	c 1822
CAM.600	Coolidge, Flavel House	2 Coolidge Pl	Cambridge	1834
CAM.1369	Blessed Sacrament Roman Catholic Parish School	12 Corporal McTernan St	Cambridge	1924
CAM.112	Valentine Soap Workers' Cottage	5-7 Cottage St	Cambridge	1835
CAM.1212	Mather House - Harvard University	Cowperthwaite St	Cambridge	1967
CAM.113	Birkhoff, George D. House	22 Craigie St	Cambridge	r 1870
CAM.114	Ross, Denman House	24-26 Craigie St	Cambridge	1869
CAM.115		25 Craigie St	Cambridge	1856
CAM.116	Horsford, Eben House	27 Craigie St	Cambridge	1854
CAM.333	Day, Anna House	139 Cushing St	Cambridge	1856
CAM.117	Colburn, Sara Foster House	7 Dana St	Cambridge	1841
CAM.118	University Museum	11-25 Divinity Ave	Cambridge	1859
CAM.119	Divinity Hall	12 Divinity Ave	Cambridge	1825
CAM.120	Biological Laboratory	16 Divinity Ave	Cambridge	1930
CAM.121	Second Cambridge Savings Bank Building	11-21 Dunster St	Cambridge	1897
CAM.1090	Union Railway Car barn	25-33 Dunster St	Cambridge	1860
CAM.1091	Second D. U. Club	45 Dunster St	Cambridge	1930
CAM.1092	Metcalf, Eliab Wight House	46 Dunster St	Cambridge	1820
CAM.1093	Edwards, Abraham - Moore, Mary House	53 Dunster St	Cambridge	1841
CAM.1094	Alpha Sigma Phi Club	54 Dunster St	Cambridge	1900
CAM.122	Wyeth, Augustus House	69 Dunster St	Cambridge	1829
CAM.1095		71-77 Dunster St	Cambridge	1894
CAM.123		42 Edward J. Lopez Ave	Cambridge	c 1830
CAM.1096	Hotel Packard	10-14 Eliot St	Cambridge	1869
CAM.1097		14A Eliot St	Cambridge	1900
CAM.1098		16-18 Eliot St	Cambridge	1898
CAM.1410	Fuller, Margaret House	8 Ellery St	Cambridge	1841
CAM.124	Sands, Ivory House	145 Elm St	Cambridge	1839
CAM.125	Foster, Dr. House	8 Elmwood Ave	Cambridge	1893
CAM.126	Greenough, J. J. House	9 Elmwood Ave	Cambridge	1903

Inv. No.	Property Name	Street	Town	Year
CAM.127	Smyth, Herbert House	11-15 Elmwood Ave	Cambridge	1903
CAM.128	Kempton, John House	14 Elmwood Ave	Cambridge	1895
CAM.129		20 Elmwood Ave	Cambridge	1892
CAM.130	Benson, Ruth House	26 Elmwood Ave	Cambridge	1899
CAM.131	Watson House	30 Elmwood Ave	Cambridge	c 1750
CAM.132	Elmwood - Lowell, James Russell House	33 Elmwood Ave	Cambridge	c 1767
CAM.133	Reardon, Edmund House	195 Erie St	Cambridge	1884
CAM.1371	Blessed Sacrament Roman Catholic Church Convent	203 Erie St	Cambridge	1954
CAM.134	Harvard Graduate Center	10-26 Everett St	Cambridge	1949
CAM.135	Jarvis, The	27 Everett St	Cambridge	1890
CAM.136	Newman, Andrew House	23 Fairmont St	Cambridge	1823
CAM.713		2-4 Farrar St	Cambridge	1927
CAM.714		9 Farrar St	Cambridge	1890
CAM.715		15 Farrar St	Cambridge	1898
CAM.716		16 Farrar St	Cambridge	1931
CAM.717		17 Farrar St	Cambridge	1897
CAM.718		18-20 Farrar St	Cambridge	1923
CAM.719		22 Farrar St	Cambridge	1928
CAM.720		26 Farrar St	Cambridge	1928
CAM.137		10-12 Farwell Pl	Cambridge	r 1870
CAM.138	Nichols House	11 Farwell Pl	Cambridge	1827
CAM.139		14-16 Farwell Pl	Cambridge	c 1855
CAM.140	Read, James House	15 Farwell Pl	Cambridge	c 1772
CAM.141	Child, N. K. House	17 Farwell Pl	Cambridge	1835
CAM.142		18-20 Farwell Pl	Cambridge	c 1855
CAM.143	Christ Church Parish House	19 Farwell Pl	Cambridge	1948
CAM.144	Toppan House	22-24 Farwell Pl	Cambridge	c 1900
CAM.1408	Carey, Agnes Whiteside House	50 Fayerweather St	Cambridge	
CAM.145	Deane, Ezra - Williams, George House	21-23 Fayette St	Cambridge	1848
CAM.146		26-28 Fayette St	Cambridge	1857
CAM.430	Cambridge Public Library - O'Connell Branch	Fifth St	Cambridge	1938
CAM.441		69-71 Fifth St	Cambridge	
CAM.452	Hall, Jesse House	75 Fifth St	Cambridge	1837
CAM.428		82 Fifth St	Cambridge	
CAM.429		83 Fifth St	Cambridge	
CAM.1405	Volpe Center - Center Service Building	259 Fifth St	Cambridge	c 1965
CAM.907	First Street Bridge over Broad Canal	First St	Cambridge	1924

Inv. No.	Property Name	Street	Town	Year
CAM.147	Athenaeum Press Building	215 First St	Cambridge	1895
CAM.910	Fitchburg Railroad Signal Bridge	Fitchburg Railroad	Cambridge	c 1930
CAM.9022	Athena	215 Flint St	Cambridge	
CAM.148	Abbot, Edwin House	1 Follen St	Cambridge	1889
CAM.1271		5 Follen St	Cambridge	1853
CAM.1273		6 Follen St	Cambridge	1868
CAM.1338		8 Follen St	Cambridge	1871
CAM.149	Second Waterhouse House	9 Follen St	Cambridge	1844
CAM.150		10 Follen St	Cambridge	1875
CAM.1274		13 Follen St	Cambridge	1900
CAM.151	Richards, Theodore W. House	15 Follen St	Cambridge	1900
CAM.1275		19 Follen St	Cambridge	1844
CAM.1276		20 Follen St	Cambridge	1949
CAM.1277		21 Follen St	Cambridge	1841
CAM.1278		22 Follen St	Cambridge	1951
CAM.1279		25 Follen St	Cambridge	1889
CAM.152	Clover Den - Mann, Mary House	29 Follen St	Cambridge	1837
CAM.1280		34 Follen St	Cambridge	1946
CAM.1281		36 Follen St	Cambridge	1847
CAM.1282		44 Follen St	Cambridge	1862
CAM.338	Puritan Arms	46-50 Follen St	Cambridge	1940
CAM.1331	Homer - Lovell House	11 Forest St	Cambridge	1867
CAM.153	Francis, Ebenezer Houuse	1 Francis Ave	Cambridge	1836
CAM.721		6 Francis Ave	Cambridge	1940
CAM.722		7 Francis Ave	Cambridge	1894
CAM.723		8 Francis Ave	Cambridge	1940
CAM.724		9 Francis Ave	Cambridge	c 1875
CAM.725		10 Francis Ave	Cambridge	1894
CAM.726		11 Francis Ave	Cambridge	1894
CAM.1337		12-14 Francis Ave	Cambridge	1895
CAM.727		16 Francis Ave	Cambridge	1906
CAM.154	Davis, William Morris House	17 Francis Ave	Cambridge	r 1895
CAM.728		18 Francis Ave	Cambridge	1911
CAM.155	Hyatt, Prof. Alpheus - Durant, Prof. Will B. House	19 Francis Ave	Cambridge	1889
CAM.729		21 Francis Ave	Cambridge	1925
CAM.730		22 Francis Ave	Cambridge	1912
CAM.731		23 Francis Ave	Cambridge	1902
CAM.732		24 Francis Ave	Cambridge	1906

Inv. No.	Property Name	Street	Town	Year
CAM.733	Center for the Study of World Religions	30 Francis Ave	Cambridge	1905
CAM.734		32 Francis Ave	Cambridge	1903
CAM.735		42 Francis Ave	Cambridge	1959
CAM.736		44 Francis Ave	Cambridge	1913
CAM.737		53 Francis Ave	Cambridge	1913
CAM.738		56 Francis Ave	Cambridge	1914
CAM.739		57 Francis Ave	Cambridge	1913
CAM.740		59 Francis Ave	Cambridge	1916
CAM.741		60 Francis Ave	Cambridge	1961
CAM.742		63 Francis Ave	Cambridge	1913
CAM.743		64 Francis Ave	Cambridge	1957
CAM.744		65 Francis Ave	Cambridge	1916
CAM.745		67 Francis Ave	Cambridge	1926
CAM.746		68 Francis Ave	Cambridge	1921
CAM.747		70 Francis Ave	Cambridge	1879
CAM.748	Sert, Jose Luis House	73 Francis Ave	Cambridge	1926
CAM.749		75-77 Francis Ave	Cambridge	1925
CAM.1329		129 Franklin St	Cambridge	1875
CAM.919		Fresh Pond Ln	Cambridge	1926
CAM.9014		Fresh Pond Pkwy	Cambridge	1899
CAM.9015		Fresh Pond Parkway - Concord Avenue Rotary Islands	Cambridge	1928
CAM.9016		Fresh Pond Parkway - New Street Rotary	Cambridge	1928
CAM.9017		Fresh Pond Parkway Tree Canopy	Cambridge	r 1920
CAM.9018		Fresh Pond Parkway Median System	Cambridge	c 1958
CAM.156		Wyeth - Eliot, Charles House	Cambridge	1838
CAM.157		Frost, Walter House	Cambridge	1807
CAM.800		Old Burying Ground	Cambridge	r 1750
CAM.940		Milestone, 1767	Cambridge	1734
CAM.158		Christ Church	Cambridge	1760
CAM.159		Saunders, William House	Cambridge	1821
CAM.339	Howe, Sarah House	2 Garden St	Cambridge	1835
CAM.340		3 Garden St	Cambridge	1851
CAM.160		11 Garden St	Cambridge	1870
CAM.341		17-19 Garden St	Cambridge	1926
CAM.161		60 Garden St	Cambridge	1843
CAM.162		63 Garden St	Cambridge	1855
CAM.163		88 Garden St	Cambridge	1810

Inv. No.	Property Name	Street	Town	Year
CAM.1240		91 Garden St	Cambridge	1922
CAM.164	Taylor Square Firehouse	113 Garden St	Cambridge	1904
CAM.165	Warren, H. Langford House	6 Garden Ter	Cambridge	1904
CAM.671	Rollins, John House	16 Garfield St	Cambridge	1891
CAM.672	Wood, Edward House	18 Garfield St	Cambridge	1886
CAM.1336	Shepherd, Herbert House	31-33 Garfield St	Cambridge	1886
CAM.673	Farquhar, Robert House	34 Garfield St	Cambridge	1890
CAM.674	Coon, Sarah House	36 Garfield St	Cambridge	1887
CAM.666	Shepherd, Edward House	39 Garfield St	Cambridge	1885
CAM.675	Thayer, Bertha House	44 Garfield St	Cambridge	1888
CAM.667	Estabrook, J. W. House	45 Garfield St	Cambridge	1886
CAM.668	Bartlett, A. S. House	49 Garfield St	Cambridge	1888
CAM.676	Green, Roscoe House	54 Garfield St	Cambridge	1890
CAM.669	Dewey House	55 Garfield St	Cambridge	1889
CAM.677	Worcester, George House	58 Garfield St	Cambridge	1890
CAM.678	Allen, Frank House	64 Garfield St	Cambridge	1891
CAM.670	Sullivan, Cornelius House	67 Garfield St	Cambridge	1889
CAM.679	Farnsworth, Charles House	74 Garfield St	Cambridge	1897
CAM.680	Ball, Elijah House	80 Garfield St	Cambridge	1887
CAM.502	Lechmere Point Corporation Row House	47 Gore St	Cambridge	c 1821
CAM.503	Lechmere Point Corporation Row House	49 Gore St	Cambridge	c 1821
CAM.504	Lechmere Point Corporation Row House	51 Gore St	Cambridge	c 1821
CAM.1407	Carr, M. W. and Company Factory - Building #4	63 Gorham St	Cambridge	r 1920
CAM.1241		1 Gray Gardens East	Cambridge	1925
CAM.1242		2 Gray Gardens East	Cambridge	1930
CAM.1243		3 Gray Gardens East	Cambridge	1923
CAM.1244		8 Gray Gardens East	Cambridge	1923
CAM.1245		9 Gray Gardens East	Cambridge	1922
CAM.1246		11 Gray Gardens East	Cambridge	1924
CAM.1247		12 Gray Gardens East	Cambridge	1922
CAM.1248		13 Gray Gardens East	Cambridge	1925
CAM.1249		16 Gray Gardens East	Cambridge	1922
CAM.1250		17 Gray Gardens East	Cambridge	1958
CAM.1251		19 Gray Gardens East	Cambridge	1927
CAM.1252		22 Gray Gardens East	Cambridge	1962
CAM.1253		25 Gray Gardens East	Cambridge	1926
CAM.1254		26 Gray Gardens East	Cambridge	1922
CAM.1255		27 Gray Gardens East	Cambridge	1923

Inv. No.	Property Name	Street	Town	Year
CAM.1256		30 Gray Gardens East	Cambridge	1928
CAM.1257		31 Gray Gardens East	Cambridge	1924
CAM.1258		37 Gray Gardens East	Cambridge	1923
CAM.1259		3 Gray Gardens West	Cambridge	1923
CAM.1260		4 Gray Gardens West	Cambridge	1922
CAM.1261		11 Gray Gardens West	Cambridge	1923
CAM.1262		14 Gray Gardens West	Cambridge	1924
CAM.1263		15 Gray Gardens West	Cambridge	1929
CAM.1264		16 Gray Gardens West	Cambridge	1925
CAM.167	Hall Tavern	20 Gray Gardens West	Cambridge	r 1800
CAM.1265		24 Gray Gardens West	Cambridge	1928
CAM.166	Frost, David House	26 Gray St	Cambridge	1815
CAM.618		133 Green St	Cambridge	c 1894
CAM.624	Raymond, T. H. Warehouse	175 Green St	Cambridge	1908
CAM.1389		205-207 Green St	Cambridge	
CAM.534	Inman Square Fire Station	Hampshire St	Cambridge	1912
CAM.168	Lamson, Rufus House	72-74 Hampshire St	Cambridge	1854
CAM.1367	Massachusetts Avenue Baptist Church	146 Hampshire St	Cambridge	1902
CAM.169	Opposition House	2-4 Hancock Pl	Cambridge	1807
CAM.170		104-106 Hancock St	Cambridge	1839
CAM.171	Atwood, Ephraim House	110 Hancock St	Cambridge	1839
CAM.536	Fay, Samuel P. P. House	172 Harvard St	Cambridge	1805
CAM.549	Allen Block	177-183 Harvard St	Cambridge	r 1875
CAM.1354	Courtney, Benjamin House	273 Harvard St	Cambridge	1867
CAM.172	Jones, William R. House	307 Harvard St	Cambridge	1865
CAM.173	Vinal, Albert House	325 Harvard St	Cambridge	1853
CAM.681	Melledge, James P. House	335 Harvard St	Cambridge	1850
CAM.684	Warner, Caleb House	336 Harvard St	Cambridge	1858
CAM.682		337 Harvard St	Cambridge	1887
CAM.685	Frothingham, Amos House	338 Harvard St	Cambridge	1859
CAM.686	Goepper, William House	340 Harvard St	Cambridge	1897
CAM.683		341-343 Harvard St	Cambridge	1855
CAM.687	Rindge, Samuel Baker House	342-344 Harvard St	Cambridge	1857
CAM.174	Bradbury, William F. House	369 Harvard St	Cambridge	1877
CAM.175	Hapgood, Richard House	382-392 Harvard St	Cambridge	1889
CAM.176	Ware Hall	383 Harvard St	Cambridge	1893
CAM.1099	Delta Upsilon Club	396 Harvard St	Cambridge	1914
CAM.177	Old Cambridge Baptist Church	398 Harvard St	Cambridge	1867

Inv. No.	Property Name	Street	Town	Year
CAM.193	Austin Hall	Harvard University	Cambridge	1881
CAM.178	Holden Chapel - Harvard University	Harvard Yard	Cambridge	1764
CAM.179	Sever Hall	Harvard Yard	Cambridge	1880
CAM.180	University Hall	Harvard Yard	Cambridge	1812
CAM.181	Harvard Hall - Harvard University	Harvard Yard	Cambridge	1764
CAM.182	Hollis Hall - Harvard University	Harvard Yard	Cambridge	1762
CAM.183	Massachusetts Hall	Harvard Yard	Cambridge	1718
CAM.184	Weld Hall - Harvard University	Harvard Yard	Cambridge	1870
CAM.185	Boylston Hall - Harvard University	Harvard Yard	Cambridge	1857
CAM.186	Holworthy Hall - Harvard University	Harvard Yard	Cambridge	1811
CAM.187	Grays Hall - Harvard University	Harvard Yard	Cambridge	1862
CAM.188	Lehman Hall - Harvard University	Harvard Yard	Cambridge	1924
CAM.189	Matthews House - Harvard University	Harvard Yard	Cambridge	1871
CAM.190	Straus Hall - Harvard University	Harvard Yard	Cambridge	1926
CAM.191	Thayer Hall - Harvard University	Harvard Yard	Cambridge	1869
CAM.192	Wigglesworth Hall - Harvard University	Harvard Yard	Cambridge	1930
CAM.953	Harvard University - 1857 Gate	Harvard Yard	Cambridge	1901
CAM.954	Harvard University - 1870 Gate	Harvard Yard	Cambridge	1901
CAM.955	Harvard University - 1873 Tablet	Harvard Yard	Cambridge	1901
CAM.956	Harvard University - 1874 Gate	Harvard Yard	Cambridge	1901
CAM.957	Harvard University - 1875 Gate	Harvard Yard	Cambridge	1901
CAM.958	Harvard University - 1881 Gate	Harvard Yard	Cambridge	1906
CAM.959	Harvard University - 1885 Gate	Harvard Yard	Cambridge	1904
CAM.960	Harvard University - 1886 Gate	Harvard Yard	Cambridge	1901
CAM.961	Harvard University - 1887 Gate	Harvard Yard	Cambridge	1906
CAM.962	Harvard University - 1888 Gate	Harvard Yard	Cambridge	1906
CAM.963	Harvard University - 1889 Gate	Harvard Yard	Cambridge	1901
CAM.964	Harvard University - 1890 Gate	Harvard Yard	Cambridge	1901
CAM.965	Harvard University - 1880 Gate	Harvard Yard	Cambridge	1902
CAM.966	Harvard University - Bradley Fountain	Harvard Yard	Cambridge	1910
CAM.967	Harvard University - Chinese Steel	Harvard Yard	Cambridge	r 1810
CAM.968	Harvard University - Delivery Gate	Harvard Yard	Cambridge	1948
CAM.969	Harvard University - Driveway Gate	Harvard Yard	Cambridge	1948
CAM.970	Harvard University - 1908 Gate	Harvard Yard	Cambridge	1936
CAM.971	Harvard University - Emerson Gate	Harvard Yard	Cambridge	1936
CAM.972	Harvard University - Fire Station Gate	Harvard Yard	Cambridge	1970
CAM.973	Harvard University - Hollis Pump	Harvard Yard	Cambridge	1936
CAM.974	Harvard University - 1876 Gate	Harvard Yard	Cambridge	1901

Inv. No.	Property Name	Street	Town	Year
CAM.975	Harvard University - Harvard, John Statue	Harvard Yard	Cambridge	1884
CAM.976	Harvard University - Johnston Gate	Harvard Yard	Cambridge	1889
CAM.977	Harvard University - Lamont Gate	Harvard Yard	Cambridge	1948
CAM.978	Harvard University - Gatehouse	Harvard Yard	Cambridge	1983
CAM.979	Harvard University - 1879 Gate	Harvard Yard	Cambridge	1891
CAM.980	Harvard University - Onion	Harvard Yard	Cambridge	1965
CAM.981	Harvard University - Porcellian Gate	Harvard Yard	Cambridge	1901
CAM.982	Harvard University - Reclining Figure	Harvard Yard	Cambridge	1972
CAM.983	Harvard University - Robinson Gate	Harvard Yard	Cambridge	1936
CAM.984	Harvard University - 1870 Sundial	Harvard Yard	Cambridge	1901
CAM.985	Harvard University - 1877 Gate	Harvard Yard	Cambridge	1901
CAM.1214	Harvard University - Canaday Hall	Harvard Yard	Cambridge	1973
CAM.1215	Harvard University - Emerson Hall	Harvard Yard	Cambridge	1904
CAM.1216	Harvard University - Houghton Library	Harvard Yard	Cambridge	1941
CAM.1217	Harvard University - Lamont Library	Harvard Yard	Cambridge	1947
CAM.1218	Harvard University - Lionel Hall	Harvard Yard	Cambridge	1924
CAM.1219	Harvard University - Memorial Church	Harvard Yard	Cambridge	1931
CAM.1220	Harvard University - Mower Hall	Harvard Yard	Cambridge	1924
CAM.1221	Brooks, Phillips House - Harvard Univsersity	Harvard Yard	Cambridge	1898
CAM.1222	Harvard University - Pusey Library	Harvard Yard	Cambridge	1973
CAM.1223	Harvard University - Robinson Hall	Harvard Yard	Cambridge	1900
CAM.1224	Harvard University - Stoughton Hall	Harvard Yard	Cambridge	1804
CAM.1227	Harvard University - Widener Library	Harvard Yard	Cambridge	1913
CAM.520		6 Hastings Sq	Cambridge	1884
CAM.1231	Bates, Jacob H. House	11 Hawthorn St	Cambridge	1813
CAM.194	Daly, Reginald A. House	23 Hawthorn St	Cambridge	c 1885
CAM.195	Wadsworth House	31 Hawthorn St	Cambridge	r 1935
CAM.196		35 Hawthorn St	Cambridge	r 1935
CAM.197	Glaser, Dorothy Merriless House	37 Hawthorn St	Cambridge	1937
CAM.198		41 Hawthorn St	Cambridge	1911
CAM.199	Maynardier, G. B. House	43 Hawthorn St	Cambridge	1900
CAM.1232		49 Hawthorn St	Cambridge	1900
CAM.521		75 Henry St	Cambridge	1892
CAM.1343		82-84 Henry St	Cambridge	
CAM.200	Noyes, J. A. House	1 Highland St	Cambridge	1894
CAM.796	Usher, Samuel House	11 Hillside Ave	Cambridge	1887
CAM.750		11 Holden St	Cambridge	1928
CAM.751		41 Holden St	Cambridge	1840

Inv. No.	Property Name	Street	Town	Year
CAM.752		45 Holden St	Cambridge	1928
CAM.1383	Chadwick, Samuel E. House	10 Hollis St	Cambridge	1853
CAM.1100	Alpha Delta Phi Club - Fly Club	2 Holyoke Pl	Cambridge	1896
CAM.1101		9 Holyoke Pl	Cambridge	c 1930
CAM.1197	Lowell House - Harvard University	10 Holyoke Pl	Cambridge	1929
CAM.1198	Indoor Athletic Building - Harvard University	35-41 Holyoke Pl	Cambridge	1929
CAM.1102		8-10 Holyoke St	Cambridge	1927
CAM.201	Hasty Pudding Club	12 Holyoke St	Cambridge	1887
CAM.1103	Apley Court	16 Holyoke St	Cambridge	1897
CAM.1104	Sawyer, Samuel F. House	20 Holyoke St	Cambridge	1818
CAM.1105		22 Holyoke St	Cambridge	1956
CAM.1106		24 Holyoke St	Cambridge	1963
CAM.1107	Owl Club	30 Holyoke St	Cambridge	1905
CAM.1302		2 Hubbard Park	Cambridge	1909
CAM.1293		3 Hubbard Park	Cambridge	1887
CAM.1306	Warren, John L. House	5 Hubbard Park	Cambridge	1922
CAM.1305	Paine, George House	6 Hubbard Park	Cambridge	c 1918
CAM.1295		8 Hubbard Park	Cambridge	1888
CAM.1301	Nutting, Lillian House	12 Hubbard Park	Cambridge	1908
CAM.1297		14 Hubbard Park	Cambridge	1892
CAM.1304		15 Hubbard Park	Cambridge	1914
CAM.1303	Beach, Revel W. House	19 Hubbard Park	Cambridge	1913
CAM.1298		20 Hubbard Park	Cambridge	1892
CAM.1299		26 Hubbard Park	Cambridge	1894
CAM.1296		32 Hubbard Park	Cambridge	1890
CAM.1346		15 Humboldt St	Cambridge	
CAM.904	Huron Avenue Bridge over B & M Railroad	Huron Ave	Cambridge	1892
CAM.202	Syrian Orthodox Catholic Church of Saint Mary	8 Inman St	Cambridge	1822
CAM.576	Matthews Apartments	12 Inman St	Cambridge	1966
CAM.1364	Bennett, James House	17 Inman St	Cambridge	1871
CAM.1349	Luke Rowhouse	19 Inman St	Cambridge	1877
CAM.1350	Luke Rowhouse	21 Inman St	Cambridge	1877
CAM.1351	Luke Rowhouse	21 1/2 Inman St	Cambridge	1877
CAM.203		102-104 Inman St	Cambridge	1845
CAM.204		106-108 Inman St	Cambridge	1845
CAM.205		110-112 Inman St	Cambridge	1845
CAM.753		80-82 Irving St	Cambridge	1927
CAM.754		81 Irving St	Cambridge	1916

Inv. No.	Property Name	Street	Town	Year
CAM.755		84-86 Irving St	Cambridge	1927
CAM.756		89 Irving St	Cambridge	1916
CAM.206	James, William House	95 Irving St	Cambridge	1889
CAM.757		99 Irving St	Cambridge	1889
CAM.758		103-103A Irving St	Cambridge	1889
CAM.207	cummings, e. e. House	104 Irving St	Cambridge	1893
CAM.759	Van Dael - DeSola Pool House	105 Irving St	Cambridge	1890
CAM.760		107 Irving St	Cambridge	1891
CAM.761		109 Irving St	Cambridge	1893
CAM.762	Davis, Robert House	110 Irving St	Cambridge	1889
CAM.763		114 Irving St	Cambridge	1911
CAM.764		133 Irving St	Cambridge	1963
CAM.765	American Academy of Arts and Sciences	136 Irving St	Cambridge	1980
CAM.766		138 Irving St	Cambridge	1912
CAM.297	Radcliffe College - Schlesinger Library	James St	Cambridge	1907
CAM.950	Winthrop Square Park	Kennedy St	Cambridge	1631
CAM.1108	Abbott Building	5 Kennedy St	Cambridge	1908
CAM.1109		9-25 Kennedy St	Cambridge	1887
CAM.1110	Farwell, Levi Tenant House	10-14 Kennedy St	Cambridge	c 1820
CAM.1111	Read Block	18-28 Kennedy St	Cambridge	1885
CAM.1112		29-41 Kennedy St	Cambridge	1971
CAM.1113		30 Kennedy St	Cambridge	1936
CAM.1114	Garage, The	34-42 Kennedy St	Cambridge	1924
CAM.1115	Fox Club	44 Kennedy St	Cambridge	1906
CAM.1116	Drayton Hall	48 Kennedy St	Cambridge	1901
CAM.1117		50 Kennedy St	Cambridge	1892
CAM.1118		52-54 Kennedy St	Cambridge	1884
CAM.1119	Galeria	55-57 Kennedy St	Cambridge	1974
CAM.1120		56 Kennedy St	Cambridge	1903
CAM.1121	S. A. E. Club	60 Kennedy St	Cambridge	1929
CAM.1122		63-65 Kennedy St	Cambridge	1984
CAM.1200	Hicks, John House - Harvard University	64 Kennedy St	Cambridge	1762
CAM.1199	Smith Hall - Harvard University	70-78 Kennedy St	Cambridge	1913
CAM.208	Loring, Judge Edward - Peirce, Benjamin House	4 Kirkland Pl	Cambridge	1856
CAM.688	Merrill, John House	9 Kirkland Pl	Cambridge	1855
CAM.689	Shaw, Southworth House	10 Kirkland Pl	Cambridge	1856
CAM.690	Green, Louise House	11 Kirkland Pl	Cambridge	1921
CAM.691	Cutler, Isaac House	12 Kirkland Pl	Cambridge	1857

Inv. No.	Property Name	Street	Town	Year
CAM.692	Cutler, George House	13 Kirkland Pl	Cambridge	1857
CAM.693	Ware House	14 Kirkland Pl	Cambridge	1839
CAM.209	Treadwell - Sparks House	21 Kirkland St	Cambridge	1838
CAM.210	Brooks, Luther House	34 Kirkland St	Cambridge	1840
CAM.211	Lovering, Joseph House	38 Kirkland St	Cambridge	1839
CAM.767		49 Kirkland St	Cambridge	1886
CAM.768		55 Kirkland St	Cambridge	1927
CAM.769		57-59 Kirkland St	Cambridge	1927
CAM.212	Eliot, Charles W. House	61 Kirkland St	Cambridge	1858
CAM.213	Child, Francis J. House	67 Kirkland St	Cambridge	1861
CAM.9019	Brown-Rhone, Jill Park	Lafayette Sq	Cambridge	2007
CAM.214	Fresh Pond Hotel	234 Lakeview Ave	Cambridge	1796
CAM.1013		13 Lancaster St	Cambridge	c 1880
CAM.1005		16 Lancaster St	Cambridge	1892
CAM.1006		18 Lancaster St	Cambridge	1885
CAM.1007		24 Lancaster St	Cambridge	1883
CAM.1014	Sawyer, Chester House	27 Lancaster St	Cambridge	1886
CAM.1015	Hovey, William B. House	29 Lancaster St	Cambridge	1887
CAM.1008		36 Lancaster St	Cambridge	1886
CAM.215	Yerxa House and Carriage House	37 Lancaster St	Cambridge	1887
CAM.216	Larches, The	22 Larch Rd	Cambridge	c 1808
CAM.1317	Metropolitan District Commission Boat House	Lechmere Canal	Cambridge	1910
CAM.217		15-17 Lee St	Cambridge	1856
CAM.218	Lowell, The	33 Lexington Ave	Cambridge	1900
CAM.1123		5-7 Linden St	Cambridge	c 1867
CAM.1124	Harvard Square Squash Court	8-10 Linden St	Cambridge	1908
CAM.1125	Delphic Club	9 Linden St	Cambridge	1902
CAM.219	Apthorp, Rev. East House	10 Linden St	Cambridge	c 1760
CAM.220	Cooper - Frost - Austin House	21 Linnaean St	Cambridge	1681
CAM.221	Peabody Court Apartments	41-43 Linnaean St	Cambridge	1922
CAM.1234	Cambridge Friends Meetinghouse and Center	5 Longfellow Park	Cambridge	1914
CAM.1233		6 Longfellow Park	Cambridge	1901
CAM.222	Lowell School	25 Lowell St	Cambridge	1883
CAM.1319	Magazine Beach Bath House	Magazine Beach	Cambridge	1899
CAM.223	First Baptist Church, Cambridge	5 Magazine St	Cambridge	1881
CAM.637	Church Corners Apartments	8-12 Magazine St	Cambridge	1985
CAM.510	Pilgrim Congregational Church	35 Magazine St	Cambridge	1871
CAM.511	Hinman, Joseph House	48 Magazine St	Cambridge	1875

Inv. No.	Property Name	Street	Town	Year
CAM.512	Brewer, Isaac D. - Pulsifer, William Double House	50-52 Magazine St	Cambridge	1852
CAM.513	Grace Methodist Church	56 Magazine St	Cambridge	1886
CAM.224	Flentje, Ernst House	129 Magazine St	Cambridge	1866
CAM.991	Shell Sign	187 Magazine St	Cambridge	1933
CAM.87	Kendall Square Subway Station	Main St	Cambridge	1912
CAM.225	Kendall Square Substation	Main St	Cambridge	1911
CAM.1308	Davenport - Allen and Endicott Factory Headhouse	Main St	Cambridge	1882
CAM.1309	Davenport - Allen and Endicott Factory East Wing	Main St	Cambridge	1848
CAM.1335	Luke Building	135-145 Main St	Cambridge	1874
CAM.1384	Engine House No. 7	350 Main St	Cambridge	c 1895
CAM.328	Union #2 Engine House	787-789 Main St	Cambridge	1852
CAM.609	Bright Building	853 Main St	Cambridge	1898
CAM.608	Wentworth Building	859-863 Main St	Cambridge	1897
CAM.610	Union Baptist Church	872 Main St	Cambridge	1882
CAM.607	Mellen Building	875 Main St	Cambridge	1897
CAM.606	Andelman, Ezra Building	877-881 Main St	Cambridge	1941
CAM.611	Sawyer, Charles Tenement	882-884 Main St	Cambridge	c 1873
CAM.605	Whitney, Lucretia and Henry Building	893-907 Main St	Cambridge	1870
CAM.703		6 Maple Ave	Cambridge	
CAM.694	Stevens, Charles B. House	8 Maple Ave	Cambridge	1873
CAM.704		12 Maple Ave	Cambridge	
CAM.705		14-16 Maple Ave	Cambridge	
CAM.702		15 Maple Ave	Cambridge	
CAM.701		19 Maple Ave	Cambridge	
CAM.697	Webster, Francis B. House	20 Maple Ave	Cambridge	1861
CAM.695	Hall, Lewis House	23 Maple Ave	Cambridge	1867
CAM.706		24 Maple Ave	Cambridge	
CAM.700		25 Maple Ave	Cambridge	r 1920
CAM.707		26 Maple Ave	Cambridge	
CAM.699		27 Maple Ave	Cambridge	
CAM.698		29 Maple Ave	Cambridge	
CAM.696	Munroe, Philip House	31 Maple Ave	Cambridge	1887
CAM.226	Mason, Josiah Jr. House	11 Market St	Cambridge	1831
CAM.295	Radcliffe College Gymnasium	Mason St	Cambridge	1898
CAM.296	Radcliffe College - Agassiz House	Mason St	Cambridge	1904
CAM.227	Norton House Ell	4 Mason St	Cambridge	1847

Inv. No.	Property Name	Street	Town	Year
CAM.228		6-12 Mason St	Cambridge	
CAM.260	M. I. T. Alumni Swimming Pool Building	Massachusetts Ave	Cambridge	1940
CAM.261	Kresge Auditorium	Massachusetts Ave	Cambridge	1953
CAM.262	M. I. T. Chapel	Massachusetts Ave	Cambridge	1954
CAM.901	Harvard Square Subway Kiosk	Massachusetts Ave	Cambridge	1928
CAM.905	Massachusetts Avenue Bridge over Conrail	Massachusetts Ave	Cambridge	1900
CAM.916	Central Square Subway Station	Massachusetts Ave	Cambridge	1912
CAM.921	Harvard Bridge	Massachusetts Ave	Cambridge	r 1890
CAM.938	Cambridge Common	Massachusetts Ave	Cambridge	1631
CAM.939	Cambridge Common South Traffic Island	Massachusetts Ave	Cambridge	1976
CAM.945	Burying Ground Fence	Massachusetts Ave	Cambridge	1891
CAM.946	Flagstaff Park	Massachusetts Ave	Cambridge	1913
CAM.947	North Little Common	Massachusetts Ave	Cambridge	c 1858
CAM.949	Central Square Street Pattern	Massachusetts Ave	Cambridge	c 1630
CAM.334	Cambridge Armory	120 Massachusetts Ave	Cambridge	1902
CAM.332	Metropolitan Storage Warehouse	134 Massachusetts Ave	Cambridge	1895
CAM.1366	New England Confectionery Company Factory	250 Massachusetts Ave	Cambridge	1927
CAM.612	Lamson, The	351-355 Massachusetts Ave	Cambridge	1907
CAM.614	Lafayette Square Fire Station	380 Massachusetts Ave	Cambridge	1893
CAM.613	Shell Gas Station	385 Massachusetts Ave	Cambridge	1948
CAM.615	Salvation Army - Cambridge Citadel	400-402 Massachusetts Ave	Cambridge	1968
CAM.604		401-409 Massachusetts Ave	Cambridge	1966
CAM.603	Taylor, William A. House and Shop	411-413 Massachusetts Ave	Cambridge	1887
CAM.602	Barkin and Gorfinkle Building	415-429 Massachusetts Ave	Cambridge	1925
CAM.616	Kennedy, Frank A. Store	424 Massachusetts Ave	Cambridge	1896
CAM.617	Kutz, Issac Store	428 Massachusetts Ave	Cambridge	c 1910
CAM.229	Kennedy, The	430-442 Massachusetts Ave	Cambridge	1890
CAM.601	Robbins Building	433-447 Massachusetts Ave	Cambridge	1923
CAM.619	Blanchard Building	448-450 Massachusetts Ave	Cambridge	c 1886
CAM.324	South Row	452-458 Massachusetts Ave	Cambridge	1807
CAM.1393	Dana Row - South Row	452-458 Massachusetts Ave	Cambridge	2003
CAM.599	Rogers, F. W. and G. M. Building	453-457 Massachusetts Ave	Cambridge	1885
CAM.620	Freedman Building	460-464 Massachusetts Ave	Cambridge	1933
CAM.598	McDonald's Restaurant	463-467 Massachusetts Ave	Cambridge	1974
CAM.621	Central Square Realty Trust Building	468-480 Massachusetts Ave	Cambridge	1929
CAM.597	Moller's Furniture Store	485 Massachusetts Ave	Cambridge	1926
CAM.622	Longfellow, The	492-498 Massachusetts Ave	Cambridge	1893
CAM.596	Kane's Furniture Store	493-507 Massachusetts Ave	Cambridge	1916

Inv. No.	Property Name	Street	Town	Year
CAM.625	Burger King Restaraunt	506 Massachusetts Ave	Cambridge	1970
CAM.1394	Hovey, Phineas Building	512-514 Massachusetts Ave	Cambridge	1842
CAM.595	Central Trust Building	515-527 Massachusetts Ave	Cambridge	1927
CAM.627	Miller Store	520 Massachusetts Ave	Cambridge	1924
CAM.628	Rosenwald Realty Corporation Building	522-526 Massachusetts Ave	Cambridge	1928
CAM.230	Odd Fellows Hall	536 Massachusetts Ave	Cambridge	1884
CAM.629	Clark - Lamb Building	546-550 Massachusetts Ave	Cambridge	c 1873
CAM.630	Albani Building	552-566 Massachusetts Ave	Cambridge	1925
CAM.592	Bullock, Charles Building	567-569 Massachusetts Ave	Cambridge	1859
CAM.591	Central Square Theater	571-577 Massachusetts Ave	Cambridge	1917
CAM.631	Ginsberg Building - Harvard Bazar	572-590 Massachusetts Ave	Cambridge	1913
CAM.590	Morse, Asa P. Building	579-587 Massachusetts Ave	Cambridge	1893
CAM.589	Cambridgeport National Bank Building	593-597 Massachusetts Ave	Cambridge	1869
CAM.632	Manhattan Market - Purity Supreme Super Market	596-610 Massachusetts Ave	Cambridge	1899
CAM.588	Morse, Asa Second Building	599-601 Massachusetts Ave	Cambridge	1905
CAM.587	Fisk and Coleman Building	603-605 Massachusetts Ave	Cambridge	1892
CAM.633	Prospect House	614-620 Massachusetts Ave	Cambridge	1869
CAM.586	Corcoran, John H. Building	615-627 Massachusetts Ave	Cambridge	1927
CAM.634	Holmes Block I	624-638 Massachusetts Ave	Cambridge	1915
CAM.1395	New Holmes Block	624-638 Massachusetts Ave	Cambridge	1998
CAM.585	Woolworth, F. W. Building	633-641 Massachusetts Ave	Cambridge	1950
CAM.584	Watriss Building	643-649 Massachusetts Ave	Cambridge	1880
CAM.583	Dowse, Thomas House	653-655 Massachusetts Ave	Cambridge	1814
CAM.581	New England Gas and Electric Association II Bldg	671-675 Massachusetts Ave	Cambridge	1966
CAM.642	Central Square Building	674 Massachusetts Ave	Cambridge	1926
CAM.643	Chamberlain - Hyde Building	684-688 Massachusetts Ave	Cambridge	1869
CAM.580	Cambridgeport Savings Bank	689 Massachusetts Ave	Cambridge	1904
CAM.644	Dana Building	692-698 Massachusetts Ave	Cambridge	1872
CAM.645	Southwick Building	700-706 Massachusetts Ave	Cambridge	1908
CAM.646	Norris Building	710-720 Massachusetts Ave	Cambridge	1916
CAM.579	Cambridge Electric Light Building	719 Massachusetts Ave	Cambridge	1912
CAM.647	Thayer Building I	722-724 Massachusetts Ave	Cambridge	1863
CAM.648	Thayer Building II	728-730 Massachusetts Ave	Cambridge	1868
CAM.578	Southwick Building	731-751 Massachusetts Ave	Cambridge	1896
CAM.649	Dobbins and Draper Store	736-750 Massachusetts Ave	Cambridge	1922
CAM.650	Dobbins and Draper Store	736-750 Massachusetts Ave	Cambridge	1922

Inv. No.	Property Name	Street	Town	Year
CAM.231	Cambridge Mutual Fire Insurance Company Building	763 Massachusetts Ave	Cambridge	1888
CAM.232	Central Square Post Office	770 Massachusetts Ave	Cambridge	1933
CAM.233	Cambridge City Hall	795 Massachusetts Ave	Cambridge	1889
CAM.651	Cambridge Senior Center	800-806 Massachusetts Ave	Cambridge	1925
CAM.652	Young Men's Christian Association Building	820-830 Massachusetts Ave	Cambridge	1896
CAM.1396	Brusch Medical Center	825-831 Massachusetts Ave	Cambridge	1951
CAM.653	Saint Peter's Episcopal Church	834 Massachusetts Ave	Cambridge	1867
CAM.654	Modern Manor Apartments	842-864 Massachusetts Ave	Cambridge	1925
CAM.900	Houghton Beech Tree	1000 Massachusetts Ave	Cambridge	
CAM.1127	Brentford Hall	1137 Massachusetts Ave	Cambridge	1899
CAM.1128	Dunham, Israel Houses	1156-1166 Massachusetts Ave	Cambridge	1858
CAM.1129		1168 Massachusetts Ave	Cambridge	c 1892
CAM.1130		1170-1174 Massachusetts Ave	Cambridge	c 1849
CAM.1131	Longfellow Court	1200 Massachusetts Ave	Cambridge	1916
CAM.1132	Gulf Gas Station	1201 Massachusetts Ave	Cambridge	1940
CAM.1133		1206 Massachusetts Ave	Cambridge	1965
CAM.1134		1208-1210 Massachusetts Ave	Cambridge	1842
CAM.1135	Quincy Hall	1218 Massachusetts Ave	Cambridge	1891
CAM.1136		1230 Massachusetts Ave	Cambridge	1907
CAM.1137		1234-1238 Massachusetts Ave	Cambridge	c 1894
CAM.1138	Hamden Hall	1246-1260 Massachusetts Ave	Cambridge	1902
CAM.1139	A. D. Club	1268-1270 Massachusetts Ave	Cambridge	1899
CAM.1140	Niles Building	1280 Massachusetts Ave	Cambridge	1984
CAM.234	Fairfax, The	1300-1306 Massachusetts Ave	Cambridge	1869
CAM.1141	Fairfax - Hilton Block	1310-1312 Massachusetts Ave	Cambridge	1883
CAM.1142	Fairfax - Hilton Block	1316 Massachusetts Ave	Cambridge	1885
CAM.235	Porcellian Club	1320-1324 Massachusetts Ave	Cambridge	1890
CAM.1143	Manter Hall	1325 Massachusetts Ave	Cambridge	1885
CAM.236	Wadsworth House	1341 Massachusetts Ave	Cambridge	1726
CAM.237	Holyoke Center	1350 Massachusetts Ave	Cambridge	1961
CAM.1144	Cambridge Savings Bank	1372-1376 Massachusetts Ave	Cambridge	1923
CAM.1145	Read, Joseph Stacey House	1380-1382 Massachusetts Ave	Cambridge	c 1783
CAM.1146	Bartlett, Joseph House	1384-1392 Massachusetts Ave	Cambridge	c 1800
CAM.1147	Harvard Coop Society	1400 Massachusetts Ave	Cambridge	1924
CAM.1148	Harvard Coop Society	1408-1410 Massachusetts Ave	Cambridge	1956
CAM.1149	Harvard Trust Company	1414 Massachusetts Ave	Cambridge	1923
CAM.1150	College House	1420-1442 Massachusetts Ave	Cambridge	1832

Inv. No.	Property Name	Street	Town	Year
CAM.342	Gannett House	1511 Massachusetts Ave	Cambridge	1838
CAM.343	Hemenway Gymnasium	1517 Massachusetts Ave	Cambridge	1938
CAM.344	Hastings Hall	1519 Massachusetts Ave	Cambridge	1888
CAM.345	Harvard Epworth Methodist Church	1555 Massachusetts Ave	Cambridge	1891
CAM.1334	Francis - Allyn House	1564 Massachusetts Ave	Cambridge	1831
CAM.1333	Sawin - Cobb - Wilson House	1626 Massachusetts Ave	Cambridge	1868
CAM.238	Saunders, Charles Hicks House	1627 Massachusetts Ave	Cambridge	1862
CAM.239	Montrose, The	1648 Massachusetts Ave	Cambridge	1898
CAM.240	Dunvegan, The	1654 Massachusetts Ave	Cambridge	1898
CAM.241	Worcester, Frederick House	1734 Massachusetts Ave	Cambridge	1886
CAM.242	North Avenue Congregational Church	1803 Massachusetts Ave	Cambridge	1845
CAM.243	Lovell Block	1853 Massachusetts Ave	Cambridge	1882
CAM.1385	Cambridge Masonic Temple	1950 Massachusetts Ave	Cambridge	1910
CAM.244	Saint James Episcopal Church	1991 Massachusetts Ave	Cambridge	1888
CAM.245	Henderson Carriage Repository	2067-2089 Massachusetts Ave	Cambridge	1892
CAM.246	Cornerstone Baptist Church	2114 Massachusetts Ave	Cambridge	1854
CAM.247	Mead, Alpheus House	2200 Massachusetts Ave	Cambridge	1867
CAM.248	Snow, Daniel House	2210 Massachusetts Ave	Cambridge	1868
CAM.249	McLean, Isaac House	2218 Massachusetts Ave	Cambridge	1894
CAM.250	Farwell, R. H. Double House	2222-2224 Massachusetts Ave	Cambridge	1891
CAM.251	Saint John's Roman Catholic Church	2270 Massachusetts Ave	Cambridge	1904
CAM.1390		2557 Massachusetts Ave	Cambridge	
CAM.1376	Matignon Central Catholic High School	1 Matignon Rd	Cambridge	1946
CAM.1375	Immaculate Conception Catholic Church Convent	33 Matignon Rd	Cambridge	1954
CAM.252	Cambridge Almshouse	45 Matignon Rd	Cambridge	1850
CAM.1374	Cambridge Almshouse Dormitory	45 Matignon Rd	Cambridge	c 1887
CAM.566	M. I. T. - Pierce, Henry L. Engineering Laboratory	Memorial Dr	Cambridge	1913
CAM.567	M. I. T. - Buildings #2 and #8	Memorial Dr	Cambridge	1913
CAM.568	M. I. T. - Pratt School of Naval Architecture	Memorial Dr	Cambridge	1919
CAM.569	M. I. T. - Homburg Infirmary	Memorial Dr	Cambridge	1927
CAM.570	M. I. T. - Eastman, George Research Laboratories	Memorial Dr	Cambridge	1931
CAM.571	M. I. T. - Rogers, William Barton Building	Memorial Dr	Cambridge	1937
CAM.572	M. I. T. - Walker Memorial	Memorial Dr	Cambridge	1913
CAM.573	M. I. T. - President's House	Memorial Dr	Cambridge	1913
CAM.574	M. I. T. - Senior House	Memorial Dr	Cambridge	1913
CAM.575	M. I. T. - Hayden Library	Memorial Dr	Cambridge	1949

Inv. No.	Property Name	Street	Town	Year
CAM.930	Memorial Drive	Memorial Dr	Cambridge	1896
CAM.933	M. I. T. Memorial Underpass	Memorial Dr	Cambridge	1931
CAM.934	Reid, William J. Overpass	Memorial Dr	Cambridge	1939
CAM.1332	Little, Arthur D. Inc. Building	Memorial Dr	Cambridge	1917
CAM.9023	ELMO - MIT	Memorial Dr	Cambridge	1963
CAM.1398	Lever Brothers Company Administration Building	50 Memorial Dr	Cambridge	1938
CAM.253		100 Memorial Dr	Cambridge	1950
CAM.254	M. I. T. Main Courtyard	182-226 Memorial Dr	Cambridge	1913
CAM.255	Riverbank Court Hotel	305 Memorial Dr	Cambridge	1900
CAM.256	Baker House	362 Memorial Dr	Cambridge	1947
CAM.1327	Boston University Boat House	619 Memorial Dr	Cambridge	1913
CAM.257	B & B Chemical Company	780 Memorial Dr	Cambridge	1937
CAM.258	Peabody Terrace	900 Memorial Dr	Cambridge	1958
CAM.1201	Dunster House - Harvard University	945 Memorial Dr	Cambridge	1929
CAM.1202	Gore Hall - Harvard University	960 Memorial Dr	Cambridge	1913
CAM.1203	Standish Hall - Harvard University	966 Memorial Dr	Cambridge	1913
CAM.1204	Eliot House - Harvard University	967 Memorial Dr	Cambridge	1930
CAM.1324	Harvard University - Weld Boat House	971 Memorial Dr	Cambridge	1906
CAM.259	Conventual Church of Saint Mary and Saint John	980 Memorial Dr	Cambridge	1936
CAM.1267	Radnor Hall	983-984 Memorial Dr	Cambridge	1916
CAM.1268	Hampstead Hall	985-986 Memorial Dr	Cambridge	1916
CAM.1269	Barrington Court	987-989 Memorial Dr	Cambridge	1924
CAM.1270	Strathcona-on-the-Charles	992-993 Memorial Dr	Cambridge	1914
CAM.1300		2 Mercer Cir	Cambridge	1894
CAM.1287		3 Mercer Cir	Cambridge	1885
CAM.1288		4 Mercer Cir	Cambridge	1885
CAM.1294		5 Mercer Cir	Cambridge	1887
CAM.1291		6 Mercer Cir	Cambridge	1886
CAM.1307	Harris, William F. House	7 Mercer Cir	Cambridge	1922
CAM.1289		8 Mercer Cir	Cambridge	1885
CAM.1292		9 Mercer Cir	Cambridge	1886
CAM.1151		11-15 Mifflin Pl	Cambridge	1901
CAM.1152		12-14 Mifflin Pl	Cambridge	1913
CAM.1153		17-19 Mifflin Pl	Cambridge	1972
CAM.1205	McKinlock Hall - Harvard University	8 Mill St	Cambridge	1926
CAM.1206	Leverett House Library and Towers - Harvard Univ.	14-18 Mill St	Cambridge	1958
CAM.263	Cambridge Neighborhood House	79 Moore St	Cambridge	c 1821

Inv. No.	Property Name	Street	Town	Year
CAM.264	Reversible Collar Company Building	25-27 Mount Auburn St	Cambridge	1860
CAM.1154	Saint Paul's Rectory	32-36 Mount Auburn St	Cambridge	1924
CAM.1155	Speakers Club	43-45 Mount Auburn St	Cambridge	1845
CAM.1156		45 1/2 Mount Auburn St	Cambridge	1971
CAM.1157		47-49 Mount Auburn St	Cambridge	1926
CAM.1158	Claverly Hall	63 Mount Auburn St	Cambridge	1892
CAM.1159		65R Mount Auburn St	Cambridge	1957
CAM.1160	Ridgely Hall	65 Mount Auburn St	Cambridge	1904
CAM.1161	Manter Hall School	71-77 Mount Auburn St	Cambridge	1927
CAM.1162	Phoenix - S. K. Club	72 Mount Auburn St	Cambridge	1915
CAM.1163	Iroquois Club	74 Mount Auburn St	Cambridge	1916
CAM.1164	Spee Club	76 Mount Auburn St	Cambridge	1931
CAM.1165	Willard, Lucy House	78 Mount Auburn St	Cambridge	1839
CAM.1166		90 Mount Auburn St	Cambridge	1971
CAM.1167		92-96 Mount Auburn St	Cambridge	1895
CAM.1168		95-97 Mount Auburn St	Cambridge	1920
CAM.1169		99 Mount Auburn St	Cambridge	c 1919
CAM.1170	Cantabrigia Club	100 Mount Auburn St	Cambridge	c 1919
CAM.1171		102 Mount Auburn St	Cambridge	1869
CAM.1172		104 Mount Auburn St	Cambridge	1983
CAM.1173		110 Mount Auburn St	Cambridge	1959
CAM.9	Boston Elevated Railway Division 7 Headquarters	112 Mount Auburn St	Cambridge	c 1911
CAM.1175	Trinity Hall	114-120 Mount Auburn St	Cambridge	1892
CAM.1177	Waverly Hall	115 Mount Auburn St	Cambridge	1902
CAM.1178		119-123 Mount Auburn St	Cambridge	1988
CAM.1176		120R Mount Auburn St	Cambridge	1982
CAM.1126	U. S. Post Office - Cambridge Branch	125 Mount Auburn St	Cambridge	1953
CAM.791		151 Mount Auburn St	Cambridge	1853
CAM.792		153 Mount Auburn St	Cambridge	1874
CAM.789		154 Mount Auburn St	Cambridge	1852
CAM.790		156-158 Mount Auburn St	Cambridge	1856
CAM.265		173 Mount Auburn St	Cambridge	r 1905
CAM.266		175 Mount Auburn St	Cambridge	r 1895
CAM.267		259 Mount Auburn St	Cambridge	c 1850
CAM.268	Mount Auburn Hospital - Surgical Building	330 Mount Auburn St	Cambridge	1897
CAM.269	Mount Auburn Hospital - Main Building	330 Mount Auburn St	Cambridge	1886
CAM.801	Mount Auburn Cemetery	580 Mount Auburn St	Cambridge	1831

Inv. No.	Property Name	Street	Town	Year
CAM.936	Mount Auburn Cemetery Fence and Gates	580 Mount Auburn St	Cambridge	1843
CAM.992	Mount Auburn Cemetery - Copenhagen, Maria Angel	580 Mount Auburn St	Cambridge	1872
CAM.270	Mount Auburn Cemetery Reception House	583 Mount Auburn St	Cambridge	1870
CAM.1330	DeRosay - McNamee House	50 Mount Vernon St	Cambridge	1896
CAM.557		1-2 Norfolk Pl	Cambridge	1844
CAM.558		3 Norfolk Pl	Cambridge	1846
CAM.593	Powers, Hannah - Ginsberg, Harris Building	7-15 Norfolk St	Cambridge	c 1894
CAM.562	Hotel Norfolk	30 Norfolk St	Cambridge	1886
CAM.560		51 Norfolk St	Cambridge	c 1885
CAM.561		59 Norfolk St	Cambridge	1886
CAM.554		65-67 Norfolk St	Cambridge	1844
CAM.559	Pollard, John House	68-72 Norfolk St	Cambridge	1859
CAM.552		69 Norfolk St	Cambridge	1843
CAM.555		71-73 Norfolk St	Cambridge	1844
CAM.556		75-77 Norfolk St	Cambridge	1844
CAM.551	Fuller, Robert House	79 Norfolk St	Cambridge	1843
CAM.553		87 Norfolk St	Cambridge	1843
CAM.563	Hotel Franklin	90 Norfolk St	Cambridge	1886
CAM.1392	Saint Mary of the Annunciation Catholic Church	134 Norfolk St	Cambridge	r 1865
CAM.550		1-2 Norfolk Ter	Cambridge	1839
CAM.913	East Cambridge Viaduct - Lechmere Viaduct	O'Brien Hwy	Cambridge	1910
CAM.9020	Boston and Lowell Railroad Retaining Wall	O'Brien Hwy	Cambridge	c 1857
CAM.349	Lockhart, William L. Coffin Factory Warehouse	195-199 O'Brien Hwy	Cambridge	1873
CAM.271	Barnes, James B. House	200 O'Brien Hwy	Cambridge	1824
CAM.348	Lockhart, William L. Coffin Factory Main Building	201 O'Brien Hwy	Cambridge	r 1870
CAM.272	Lockart, William L. Company Building	209 O'Brien Hwy	Cambridge	c 1859
CAM.1400	Morrell, John and Company Branch House	221 O'Brien Hwy	Cambridge	1929
CAM.1399	Whitehead Metal Products Company	225 O'Brien Hwy	Cambridge	1929
CAM.273	Aborn, John House	41 Orchard St	Cambridge	1846
CAM.274	Billings, Frederick House	45 Orchard St	Cambridge	1846
CAM.1310	Davenport - Allen and Endicott Factory West Wing	Osborn St	Cambridge	1848
CAM.1311	Davenport - Allen Factory West Wing Extension	Osborn St	Cambridge	1848
CAM.1312	Allen and Endicott Factory Extension	Osborn St	Cambridge	1896
CAM.1313	Allen and Endicott Factory Extension	Osborn St	Cambridge	1896
CAM.465	Saint Hedwig's Parish Church	Otis St	Cambridge	1939
CAM.468	Otis Hospital	Otis St	Cambridge	

Inv. No.	Property Name	Street	Town	Year
CAM.371	Woodbury, James A. - Geldowsky, Ferdinand Building	2-28 Otis St	Cambridge	1869
CAM.374		31 Otis St	Cambridge	1900
CAM.473	Hall, Lewis and William A. Rowhouse	55 Otis St	Cambridge	1851
CAM.474	Hall, Lewis and William A. Rowhouse	57 Otis St	Cambridge	1851
CAM.475	Hall, Lewis and William A. Rowhouse	59 Otis St	Cambridge	1851
CAM.485	Hazard, Samuel L. House	60 Otis St	Cambridge	1871
CAM.476	Hall, Lewis and William A. Rowhouse	61 Otis St	Cambridge	1851
CAM.484		62 Otis St	Cambridge	
CAM.472	Sortwell, Daniel R. Double House	63-65 Otis St	Cambridge	1871
CAM.483		64 Otis St	Cambridge	
CAM.471		65 1/2 Otis St	Cambridge	
CAM.482	Jones, Andrew - Hall, William A. Double House	66-68 Otis St	Cambridge	1846
CAM.470	Goss, Abiel Double House	67-69 Otis St	Cambridge	1839
CAM.481		70 Otis St	Cambridge	
CAM.469		73-75 Otis St	Cambridge	
CAM.480		74 Otis St	Cambridge	
CAM.479		78 Otis St	Cambridge	
CAM.477	Clark, Josias - Cummings, Daniel P. Rowhouse	80 Otis St	Cambridge	1861
CAM.478	Clark, Josias - Cummings, Daniel P. Rowhouse	82 Otis St	Cambridge	1861
CAM.461	Putnam School	86 Otis St	Cambridge	1889
CAM.467	Deshon, Royal P. House	93 Otis St	Cambridge	1842
CAM.460		94 Otis St	Cambridge	
CAM.466		95-97 Otis St	Cambridge	
CAM.459		96 Otis St	Cambridge	
CAM.458		98 Otis St	Cambridge	
CAM.457	Taylor, Oliver House	100 Otis St	Cambridge	1848
CAM.455	Adams, Jabez F. - Atwood, Samuel S. Rowhouse	102 Otis St	Cambridge	1848
CAM.464	Bridgeman, John L. Double House	103-105 Otis St	Cambridge	1843
CAM.456	Adams, Jabez F. - Atwood, Samuel S. Rowhouse	104 Otis St	Cambridge	1848
CAM.454		106-108 Otis St	Cambridge	
CAM.463		107-109 Otis St	Cambridge	
CAM.453		110 Otis St	Cambridge	
CAM.462		113 Otis St	Cambridge	
CAM.439		117 1/2 Otis St	Cambridge	
CAM.440		117-119 Otis St	Cambridge	
CAM.451		118 Otis St	Cambridge	
CAM.450		120 Otis St	Cambridge	

Inv. No.	Property Name	Street	Town	Year
CAM.448	Dennison, James Double House	122-124 Otis St	Cambridge	1870
CAM.449		122 1/2-124 1/2 Otis St	Cambridge	
CAM.438		123 Otis St	Cambridge	
CAM.437		125-127 Otis St	Cambridge	
CAM.447		126-128 Otis St	Cambridge	
CAM.436		129-131 Otis St	Cambridge	
CAM.446		130 Otis St	Cambridge	
CAM.445		132 Otis St	Cambridge	
CAM.435		133-135 Otis St	Cambridge	
CAM.275	Hoyt, Benjamin House	134 Otis St	Cambridge	1868
CAM.443		136-138 Otis St	Cambridge	
CAM.434	Warren, Moses - Smith, Benjamin G. Rowhouse	137 Otis St	Cambridge	1852
CAM.1339	Warren, Moses - Smith, Benjamin G. Rowhouse	139 Otis St	Cambridge	1852
CAM.442		140 Otis St	Cambridge	1895
CAM.1340	Warren, Moses - Smith, Benjamin G. Rowhouse	141 Otis St	Cambridge	1852
CAM.1341	Warren, Moses - Smith, Benjamin G. Rowhouse	143 Otis St	Cambridge	1852
CAM.1342	Warren, Moses - Smith, Benjamin G. Rowhouse	145 Otis St	Cambridge	1852
CAM.433	Fraser, John B. Double House	147-149 Otis St	Cambridge	1846
CAM.432		151 Otis St	Cambridge	
CAM.1179	Coop Annex	18 Palmer St	Cambridge	1964
CAM.276	Urban Rowhouse	30-38 Pearl St	Cambridge	1874
CAM.277	Urban Rowhouse	40-50 Pearl St	Cambridge	1875
CAM.278	Valentine Soap Workers' Cottage	101 Pearl St	Cambridge	1835
CAM.1368	Blessed Sacrament Roman Catholic Church	175 Pearl St	Cambridge	1907
CAM.1370	Blessed Sacrament Roman Catholic Church Rectory	189 Pearl St	Cambridge	1868
CAM.279		3 Phillips Pl	Cambridge	
CAM.280		5 Phillips Pl	Cambridge	c 1845
CAM.281		7 Phillips Pl	Cambridge	1898
CAM.282		9 Phillips Pl	Cambridge	r 1870
CAM.1180	Harvard Crimson Newspaper Office	14-18 Plympton St	Cambridge	1915
CAM.1181	Crimson Building Annex	22 Plympton St	Cambridge	1961
CAM.1182	Adams House Dining Hall	28 Plympton St	Cambridge	1930
CAM.1183	Russell Hall	28 Plympton St	Cambridge	1931
CAM.1184	Russell Hall	30-30A Plympton St	Cambridge	1887
CAM.1207	Quincy House - Harvard University	58 Plympton St	Cambridge	1958
CAM.1208	Mather Hall - Harvard University	68-88 Plympton St	Cambridge	1930
CAM.1209		101-103 Plympton St	Cambridge	1870

Inv. No.	Property Name	Street	Town	Year
CAM.1382	Brooks Apartments - Winthrop, John Chambers	78-80 Porter Rd	Cambridge	1915
CAM.283	Willis, Stillman House	1 Potter Park	Cambridge	1839
CAM.1401	Volpe Center - High Rise Laboratory	2 Potter St	Cambridge	c 1965
CAM.1403	Volpe Center - Space Guidance Building	2 Potter St	Cambridge	c 1965
CAM.1404	Volpe Center - Space Optics Building	2 Potter St	Cambridge	c 1965
CAM.284	Saunders, William House	6 Prentiss St	Cambridge	1843
CAM.1352	Beck - Warren House	1 Prescott St	Cambridge	1833
CAM.285		16 Prescott St	Cambridge	1873
CAM.291	Carpenter Center for the Visual Arts	19 Prescott St	Cambridge	1963
CAM.582	New England Gas and Electric Association I Bldg	45 Prospect St	Cambridge	1960
CAM.286	Prospect Congregational Church	99 Prospect St	Cambridge	1851
CAM.287	Baldwin, Maria House	196 Prospect St	Cambridge	r 1845
CAM.288	Sands, Hiram House	22 Putnam Ave	Cambridge	1848
CAM.293	Harvard Union	Quincy St	Cambridge	1900
CAM.986	Harvard University - Hallowell Gate	10 Quincy St	Cambridge	1928
CAM.289	Dana, Richard Henry - Palmer, George Herbert House	12-16 Quincy St	Cambridge	1822
CAM.952	Harvard University - Quincy Street Gate	17 Quincy St	Cambridge	1936
CAM.1213	Harvard University - President's House	17 Quincy St	Cambridge	1911
CAM.290	Fogg Art Museum	26-32 Quincy St	Cambridge	1925
CAM.292	Church of the New Jerusalem	50 Quincy St	Cambridge	1903
CAM.1266		60 Raymond St	Cambridge	1927
CAM.1411	Langer, William Leonard and Susanne House	72 Raymond St	Cambridge	1927
CAM.298	Mason, W. A. House	87 Raymond St	Cambridge	1846
CAM.299	Stickney, N. U. - Shepard, S. P. Double House	11-13 Remington St	Cambridge	1846
CAM.300	Hooper, Edward W. - Eliot, Rev. Samuel A. House	25-27 Reservoir Rd	Cambridge	1872
CAM.301		59 Rice St	Cambridge	1847
CAM.327	Hews Pottery Company Carriage House	202 Richdale Ave	Cambridge	1897
CAM.302	Kidder - Sargent - McCrehan House	146 Rindge Ave	Cambridge	1792
CAM.303	Wyeth Brickyard Superintendent's House	336 Rindge Ave	Cambridge	c 1848
CAM.923	River Street Bridge	River St	Cambridge	1926
CAM.304	Urban Rowhouse	26-32 River St	Cambridge	1860
CAM.330	Ricker, George and Jerediah House	109-113 River St	Cambridge	1844
CAM.305	River Street Firehouse	176 River St	Cambridge	1890
CAM.1211		11 Riverview Ave	Cambridge	1899
CAM.922	Boston University Bridge	Rt 2	Cambridge	1928
CAM.306	Soule, Lawrence Porter House	11 Russell St	Cambridge	1879

Inv. No.	Property Name	Street	Town	Year
CAM.307	Wood, James A. House	3 Sacramento St	Cambridge	1888
CAM.1239	Winthrop Hall - Episcopal Theological School	Saint John's Rd	Cambridge	1892
CAM.529		6-8 Salem St	Cambridge	c 1829
CAM.530		10 Salem St	Cambridge	c 1840
CAM.531		15 Salem St	Cambridge	c 1841
CAM.415	Hastings, Deborah House	72 Sciarappa St	Cambridge	1823
CAM.416		74 Sciarappa St	Cambridge	
CAM.401	Pendexter, Charles House	80-82 Sciarappa St	Cambridge	1847
CAM.1321	Boston Museum of Science	Science Park	Cambridge	1951
CAM.1322	Hayden Planetarium	Science Park	Cambridge	1958
CAM.770		2 Scott St	Cambridge	1889
CAM.771	Thaxter, Roland House	7 Scott St	Cambridge	1891
CAM.772		8 Scott St	Cambridge	1889
CAM.773		11 Scott St	Cambridge	1893
CAM.774		12 Scott St	Cambridge	1894
CAM.775		14 Scott St	Cambridge	1927
CAM.776		18 Scott St	Cambridge	1928
CAM.375	Roby, Ebenezer Rowhouse	30 Second St	Cambridge	1836
CAM.376	Roby, Ebenezer Rowhouse	32 Second St	Cambridge	1836
CAM.377	Roby, Ebenezer Rowhouse	34 Second St	Cambridge	1836
CAM.364	Hall, Jesse Rowhouse	36 Second St	Cambridge	1842
CAM.365	Hall, Jesse Rowhouse	38 Second St	Cambridge	1842
CAM.366	Hall, Jesse Rowhouse	40 Second St	Cambridge	1842
CAM.367	Hall, Jesse Rowhouse	42 Second St	Cambridge	1842
CAM.368	Hall, Jesse Rowhouse	44 Second St	Cambridge	1842
CAM.369	Hall, Jesse Rowhouse	46 Second St	Cambridge	1842
CAM.370		50 Second St	Cambridge	
CAM.308	American Net and Twine Company Factory	155R Second St	Cambridge	1875
CAM.777		1 Shady Hill Sq	Cambridge	1915
CAM.778		2-3 Shady Hill Sq	Cambridge	1915
CAM.779		4-5 Shady Hill Sq	Cambridge	1915
CAM.780		6-7 Shady Hill Sq	Cambridge	1915
CAM.781		8-9 Shady Hill Sq	Cambridge	1915
CAM.782		10-11 Shady Hill Sq	Cambridge	1915
CAM.783		12 Shady Hill Sq	Cambridge	1915
CAM.309	Eliot Hall	51 Shepard St	Cambridge	1907
CAM.310	Bertram Hall	53 Shepard St	Cambridge	1901
CAM.311	Watson, Abraham Jr. House	181-183 Sherman St	Cambridge	c 1750

Inv. No.	Property Name	Street	Town	Year
CAM.506	Sacred Heart Roman Catholic Church	39 Sixth St	Cambridge	1874
CAM.431		40 Sixth St	Cambridge	
CAM.508	Sacred Heart Roman Catholic Church Rectory	49 Sixth St	Cambridge	1885
CAM.927	Eliot Bridge	Soldier's Field Rd	Cambridge	1950
CAM.1210	Bryan Hall - Harvard University	14-24 South St	Cambridge	1930
CAM.312	Stedman, Samuel House	17 South St	Cambridge	1826
CAM.1185	Harvard Advocate Building	21 South St	Cambridge	1956
CAM.313	Dodge, Edward House	70 Sparks St	Cambridge	1878
CAM.325	Harugari Hall	154 Spring St	Cambridge	1873
CAM.1186		4-6 Story St	Cambridge	1966
CAM.1187		8-12 Story St	Cambridge	1969
CAM.1188		14-16 Story St	Cambridge	1970
CAM.353	Blake and Knowles Core Shop #1	Third St	Cambridge	c 1889
CAM.354	Blake and Knowles Core Shop #2	Third St	Cambridge	c 1890
CAM.505	Lechmere Point Corporation Row House	25 Third St	Cambridge	c 1821
CAM.381	Rollins, John W. Rowhouse	83 Third St	Cambridge	1860
CAM.382	Rollins, John W. Rowhouse	85 Third St	Cambridge	1860
CAM.383	Rollins, John W. Rowhouse	87 Third St	Cambridge	1860
CAM.384	Rollins, John W. Rowhouse	89 Third St	Cambridge	1860
CAM.331	Old Middlesex County Superior Courthouse	90 Third St	Cambridge	1814
CAM.385	Rollins, John W. Rowhouse	91 Third St	Cambridge	1860
CAM.386	Rollins, John W. Rowhouse	93 Third St	Cambridge	1860
CAM.387	Rollins, John W. Rowhouse	95 Third St	Cambridge	1860
CAM.314	Holy Cross Polish National Catholic Church	99 Third St	Cambridge	1827
CAM.315	Bottle House Block	204-214 Third St	Cambridge	1826
CAM.350	Blake and Knowles Machine Shop #1	265 Third St	Cambridge	1889
CAM.351	Blake and Knowles Office Headhouse	265 Third St	Cambridge	1892
CAM.355	Blake and Knowles Smith Shop and Brass Foundry	275 Third St	Cambridge	c 1890
CAM.326	Cambridge Gas Light Company Purifying Plant	354 Third St	Cambridge	1908
CAM.388	Stevens, Atherton H. Rowhouse	59 Thorndike St	Cambridge	1827
CAM.395	Smallidge, Samuel House	66 Thorndike St	Cambridge	1827
CAM.389	Bates, Moses Jr. House	69 Thorndike St	Cambridge	1844
CAM.396	Buck, Silas B. House	70 Thorndike St	Cambridge	1845
CAM.390	Tufts, Sophia Kimball Double House	71-73 Thorndike St	Cambridge	1857
CAM.397	Wellington, Peter House	74 Thorndike St	Cambridge	1843
CAM.391		75 Thorndike St	Cambridge	
CAM.398		76 Thorndike St	Cambridge	

Inv. No.	Property Name	Street	Town	Year
CAM.392		77 Thorndike St	Cambridge	
CAM.399		78 Thorndike St	Cambridge	
CAM.393		79-81 Thorndike St	Cambridge	
CAM.400		80 Thorndike St	Cambridge	
CAM.394		83 Thorndike St	Cambridge	
CAM.402	Stickney, Francis H. - Davies, Benjamin Rowhouse	84 Thorndike St	Cambridge	1867
CAM.417	Clark, Cornelius - Kneeland, W. W. House	85 Thorndike St	Cambridge	1822
CAM.403	Stickney, Francis H. - Davies, Benjamin Rowhouse	86 Thorndike St	Cambridge	1867
CAM.404	Stickney, Francis H. - Davies, Benjamin Rowhouse	88 Thorndike St	Cambridge	1867
CAM.418		89-91 Thorndike St	Cambridge	
CAM.405	Stickney, Francis H. - Davies, Benjamin Rowhouse	90 Thorndike St	Cambridge	1867
CAM.406	Stickney, Francis H. - Davies, Benjamin Rowhouse	92 Thorndike St	Cambridge	1867
CAM.419	Whitacre, Celeste I. Rowhouse	93 Thorndike St	Cambridge	1885
CAM.407	Stickney, Francis H. - Davies, Benjamin Rowhouse	94 Thorndike St	Cambridge	1867
CAM.420	Whitacre, Celeste I. Rowhouse	95 Thorndike St	Cambridge	1885
CAM.408	Train, Isaac House	96 Thorndike St	Cambridge	1826
CAM.421	Whitacre, Celeste I. Rowhouse	97 Thorndike St	Cambridge	1885
CAM.422	Davies, Daniel House	97 1/2 Thorndike St	Cambridge	1843
CAM.409		98 Thorndike St	Cambridge	
CAM.423		99 Thorndike St	Cambridge	
CAM.424	Daniels, Granville W. House	101 Thorndike St	Cambridge	1868
CAM.410		102 Thorndike St	Cambridge	
CAM.411	Spare, Elijah Jr. Double House	104-106 Thorndike St	Cambridge	1846
CAM.425	Eaton, Charles House	109 Thorndike St	Cambridge	1857
CAM.412	Quimby, Amos House	110 Thorndike St	Cambridge	1857
CAM.426		111-113 Thorndike St	Cambridge	
CAM.413	Stickney, Francis H. Double House	112-114 Thorndike St	Cambridge	1863
CAM.427		113 1/2 Thorndike St	Cambridge	
CAM.414	Bacon, Henry A. House	116 Thorndike St	Cambridge	1865
CAM.507	Sacred Heart Roman Catholic School and Convent	163 Thorndike St	Cambridge	1902
CAM.316	Craigie Arms	2-6 University Rd	Cambridge	1897
CAM.317	Wyeth, Jacob - Smith, Ebenezer House	152 Vassal Ln	Cambridge	1820
CAM.360	Metropolitan Supply Company Warehouse	269 Vassar St	Cambridge	1948

Inv. No.	Property Name	Street	Town	Year
CAM.361	Hovey, F. A. and Company Warehouse	271-275 Vassar St	Cambridge	c 1940
CAM.362	Metropolitan Supply Company Warehouse	277-287 Vassar St	Cambridge	1939
CAM.363	Metropolitan Supply Company Warehouse	289-293 Vassar St	Cambridge	1939
CAM.989	Walden Street Cattle Pass	Walden St	Cambridge	1857
CAM.1283	Bennink - Douglas Double Cottage	35-37 Walker St	Cambridge	1874
CAM.1284	Bennink - Douglas Double Cottage	39-41 Walker St	Cambridge	1874
CAM.1285	Bennink - Douglas Double Cottage	43-45 Walker St	Cambridge	1874
CAM.1286	Bennink - Douglas Double Cottage	49-51 Walker St	Cambridge	1874
CAM.1034	Sands, Orrin E. House	2 Walnut Ave	Cambridge	1911
CAM.1032		4 Walnut Ave	Cambridge	1878
CAM.1033	Niles, Jacob Harris House	6 Walnut Ave	Cambridge	1884
CAM.1031	Niles, Eugene M. House	9 Walnut Ave	Cambridge	1887
CAM.318	Stanstead, The	19 Ware St	Cambridge	1887
CAM.799	Ritchie, David House	26 Washington Ave	Cambridge	1889
CAM.793	Brown, Laura House	27 Washington Ave	Cambridge	1908
CAM.794	Mellen, James House	33 Washington Ave	Cambridge	1887
CAM.795	Kelley, Stillman F. House	49 Washington Ave	Cambridge	1887
CAM.1000	Boardman, Charles House	58 Washington Ave	Cambridge	1880
CAM.797	Mansfield, Gardiner House	63 Washington Ave	Cambridge	1873
CAM.798	Green, Charles G. House	71 Washington Ave	Cambridge	1877
CAM.1001	Boynton, Morris House	78 Washington Ave	Cambridge	c 1874
CAM.319	Melendy, Henry J. House	81 Washington Ave	Cambridge	1871
CAM.1002		86-88 Washington Ave	Cambridge	1870
CAM.1003		92 Washington Ave	Cambridge	1876
CAM.1004	Hutchins, Elizabeth House	108 Washington Ave	Cambridge	1924
CAM.541	Whittemore, Rev. Thomas Double House	271-273 Washington St	Cambridge	1837
CAM.540	Whittemore, Rev. Thomas Double House	288 Washington St	Cambridge	1837
CAM.539	Paige, Rev. Lucius R. House	296 Washington St	Cambridge	1837
CAM.346		1 Waterhouse St	Cambridge	1916
CAM.320	Vassall - Waterhouse - Ware House	7 Waterhouse St	Cambridge	c 1753
CAM.347		9 Waterhouse St	Cambridge	1887
CAM.335	Christian Science Church	13 Waterhouse St	Cambridge	1923
CAM.988	Fort Washington	95 Waverly St	Cambridge	
CAM.924	Western Avenue Bridge	Western Ave	Cambridge	1924
CAM.638	Cambridge Police Headquarters	5 Western Ave	Cambridge	1933
CAM.948	Central Square Park	22 Western Ave	Cambridge	1987
CAM.321	Read, Cheney House	135 Western Ave	Cambridge	1846
CAM.323	Hasey, Abraham - Wheat, Dr. Samuel House	8 Willard St	Cambridge	c 1730

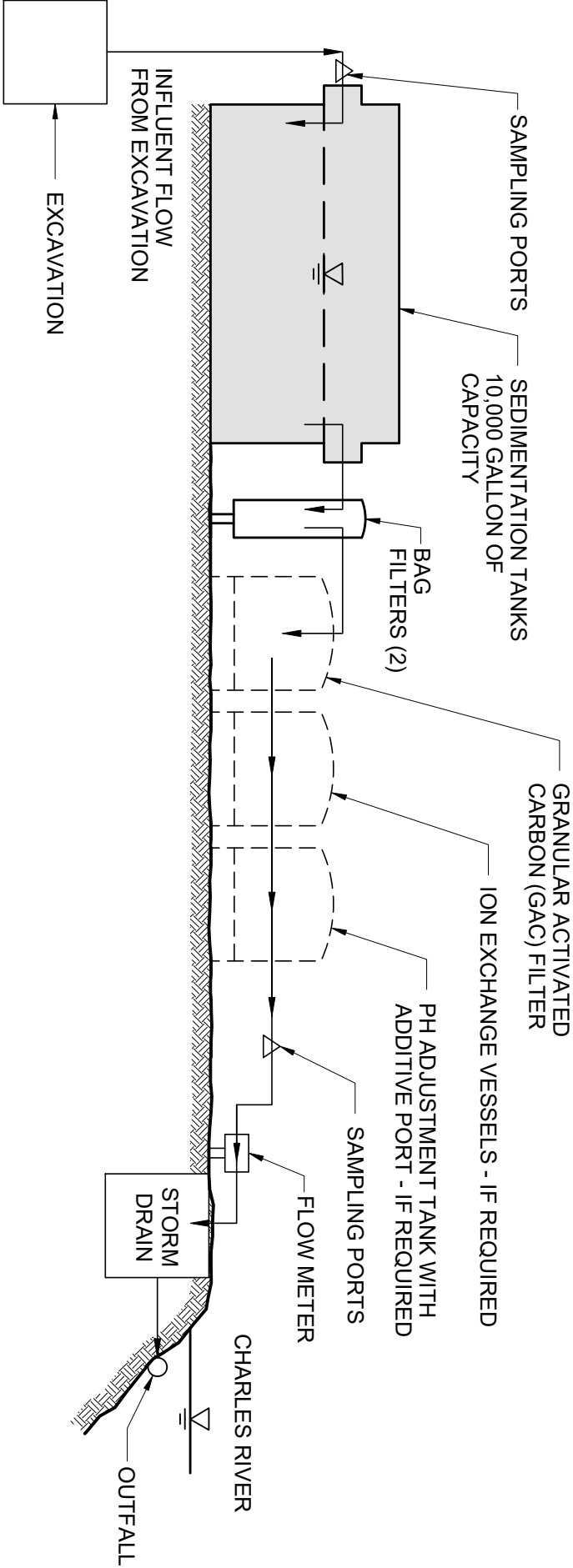
Inv. No.	Property Name	Street	Town	Year
CAM.514	Hixon, Edward House	3 William St	Cambridge	1857
CAM.1378	Immaculate Conception (Lithuanian) Catholic Church	432 Windsor St	Cambridge	1910
CAM.1379	Immaculate Conception (Lithuanian) Church Rectory	432 Windsor St	Cambridge	1972
CAM.1380	Immaculate Conception Church Rectory Metal Garage	432 Windsor St	Cambridge	1941
CAM.1381	Immaculate Conception Church Rectory Wood Garage	432 Windsor St	Cambridge	1948
CAM.500	Leighton, Thomas H. House	19 Winter St	Cambridge	r 1855
CAM.492		21 Winter St	Cambridge	c 1854
CAM.486		22 Winter St	Cambridge	1833
CAM.491		24 Winter St	Cambridge	c 1854
CAM.493		25 Winter St	Cambridge	c 1854
CAM.494		27 Winter St	Cambridge	c 1854
CAM.496		28-30 Winter St	Cambridge	c 1854
CAM.495		29 Winter St	Cambridge	c 1854
CAM.497		31-33 Winter St	Cambridge	c 1854
CAM.501		34-42 Winter St	Cambridge	r 1875
CAM.498		61 Winter St	Cambridge	c 1854
CAM.499		65 Winter St	Cambridge	c 1854
CAM.489		67 Winter St	Cambridge	1843
CAM.490		71 Winter St	Cambridge	1843
CAM.487	Stevens, Atherton Haugh House	74 Winter St	Cambridge	1838
CAM.1344	Stevens, Atherton Haugh House	75 Winter St	Cambridge	
CAM.1345		77 Winter St	Cambridge	1838
CAM.488		79 Winter St	Cambridge	1838
CAM.1189	Metcalf, Lydia House	41 Winthrop St	Cambridge	1845
CAM.1190	University Lutheran Church	65-67 Winthrop St	Cambridge	1887
CAM.1191		66 Winthrop St	Cambridge	1950
CAM.1192		69 Winthrop St	Cambridge	r 1835
CAM.1193	Pi Eta Club	89 Winthrop St	Cambridge	r 1908
CAM.1194	Pi Eta Hall	95 Winthrop St	Cambridge	r 1896
CAM.1195	Hyde, Isaac - Taylor House	96 Winthrop St	Cambridge	1845
CAM.329	Cox - Hicks House	98 Winthrop St	Cambridge	c 1806
CAM.951	Winthrop Street Retaining Wall	98 Winthrop St	Cambridge	c 1725
CAM.1196	Dame School	106 Winthrop St	Cambridge	c 1800
CAM.909	Yerxa Street Pedestrian Subway	Yerxa St	Cambridge	1904
CAM.1391	Saint Patrick's Roman Catholic Church	40-50 York St	Cambridge	

National Register of Historic Places

National Park Service
U.S. Department of the Interior

Public, non-restricted data depicting National Register spatial data processed by the Cultural Resources GIS facility. Last minor update, September 2020.





TREATMENT SYSTEM SCHEMATIC
NOTICE OF INTENT
NEW GAS TRANSFER STATION
CAMBRIDGE, MASSACHUSETTS

Appendix D

Groundwater Results

ATHENAEUM ST

EXISTING DOUBLE
SWINGING VEHICLE GATE

EXISTING
EVERSOURCE BUILDING

PORTION OF WALL TO BE REMOVED
TO ALLOW FOR ACCESS
PROPOSED SLURRY GATE
(20' DEEP TO NORTH)
PROPOSED SWINGING GATE
(CURVED DOUBLE-SWINGING TO NORTH)
PORTION OF WALL
TO BE REMOVED
PROPOSED SWINGING GATE
(CURVED TO THE SOUTHWEST)

PORTION OF WALL TO BE REMOVED
TO ALLOW FOR ACCESS
PROPOSED SLURRY GATE
(20' DEEP TO NORTH)
PROPOSED SWINGING GATE
(CURVED TO THE SOUTHWEST)

Proposed Temporary
Soil Vapor Point

Proposed Boring
Location

Proposed Boring Location Plan
Date: July 19, 2021

CONCEPTUAL

PLAN
AT KENDALL STATION
CONCEPTUAL GENERAL ARRANGEMENT

Min 46' Slat 10' W
BH-10

SG-01

SG-02

BH-11

BH-12

SG-03

PROPOSED 18"
INLET 433 PS

PROPOSED 18"
OUTLET 60 PS

PROPOSED 12"
OUTLET 433 PS
TO KENDALL

PROPOSED 8"
OUTLET 433 PS
TO KENDALL

PIPE UP-SIZE DETAIL

Approximate Location of
the decontamination drum

PROPOSED 12" GATE
EVERSOURCE ONLY

PROPOSED 12" 433
PS GAS MAIN CARRIED
ON BOTH ENDS FOR
FUTURE EXPANSION

PROPOSED 12"
OUTLET 433 PS
TO KENDALL

PROPOSED 18"
OUTLET 60 PS
TO KENDALL

PROPOSED 18"
OUTLET 433 PS
TO KENDALL

CONCEPTUAL
GENERAL ARRANGEMENT PLAN
AT KENDALL STATION



ANALYTICAL REPORT

Lab Number:	L2147704
Client:	Tetra Tech, Inc. 5 Industrial Way Suite 2B Salem, NH 03079
ATTN:	James Greacen
Phone:	(603) 328-1476
Project Name:	KCP
Project Number:	112C08712
Report Date:	09/21/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2147704-01	GW-BH-10	WATER	CAMBRIDGE	09/03/21 09:30	09/03/21
L2147704-02	IDW	WATER	CAMBRIDGE	09/03/21 13:20	09/03/21
L2147704-03	COMP-0203	SOIL	CAMBRIDGE	09/03/21 14:40	09/03/21
L2147704-04	COMP-0506	SOIL	CAMBRIDGE	09/03/21 14:50	09/03/21
L2147704-05	COMP-1011	SOIL	CAMBRIDGE	09/03/21 15:00	09/03/21
L2147704-06	BH-11-0203	SOIL	CAMBRIDGE	09/03/21 11:20	09/03/21
L2147704-07	BH-11-0506	SOIL	CAMBRIDGE	09/03/21 11:25	09/03/21
L2147704-08	BH-11-1011	SOIL	CAMBRIDGE	09/03/21 12:40	09/03/21

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Case Narrative

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

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

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

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

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

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

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

L2147704-06, -07, and -08: The samples submitted for Volatile Organics were received without raw soil for the Total Solids analysis. At the client's request, the Total Solids results from the corresponding composite samples were utilized in the dry weight calculation of the Volatile Organics data.

In reference to question H:

Matrix Spikes were not submitted for the analyses of Total Metals and Total Cyanide in soil.

Volatile Organics

L2147704-06, -07, and -08: Initial calibration utilized a quadratic fit for: bromomethane

L2147704-08: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of target compounds in the sample.

In reference to question G:

L2147704-08: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG1544907-3/-4 LCS/LCSD recoveries, associated with L2147704-01 and -02, are below the individual acceptance criteria for chloromethane (63%/61%), methyl ethyl ketone (LCSD 64%), methyl isobutyl ketone (57%), 2-hexanone (65%/57%), and tetrahydrofuran (LCSD 61%), but within the overall method allowances. The results of the associated samples are reported; however, all results for these compounds are considered to have a potentially low bias.

The WG1544907-3/-4 LCS/LCSD RPDs, associated with L2147704-01 and -02, are above the acceptance criteria for methylene chloride (22%), 1,1-dichloroethane (28%), 1,1,2-trichloroethane (23%), benzene (23%), toluene (23%), trans-1,2-dichloroethene (23%), 1,2-dichlorobenzene (21%), methyl isobutyl ketone (22%), tetrahydrofuran (27%), 2,2-dichloropropane (24%), 1,3-dichloropropane (24%), n-butylbenzene (23%), sec-butylbenzene (21%), tert-butylbenzene (22%), p-chlorotoluene (21%), p-isopropyltoluene (24%), n-propylbenzene (27%), 1,3,5-trimethylbenzene (26%), and diisopropyl ether (30%).

The WG1545666-4 LCSD recovery, associated with L2147704-06, is below the individual acceptance criteria

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Case Narrative (continued)

for dichlorodifluoromethane (67%), but within the overall method allowances. The results of the associated sample are reported; however, any result for this compound is considered to have a potentially low bias.

L2147704-01 and -02: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0029)

Average Response Factor: 1,4-dioxane

L2147704-06, -07, and -08: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: trichloroethene (0.1575), bromodichloromethane (0.1900), 1,4-dioxane (0.0011), 2-hexanone (0.0764)

Average Response Factor: trichloroethene, 1,4-dioxane, 2-hexanone

Verification: dichlorodifluoromethane (251%), chloromethane (153%), vinyl chloride (150%), bromomethane (140%)

L2147704-01, -02, -06, -07, and -08: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Semivolatile Organics

L2147704-01, -02, WG1543360-1, WG1543360-2 and WG1543360-3: The initial calibration utilized a quadratic fit for bis(2-ethylhexyl)phthalate and butyl benzyl phthalate.

L2147704-03D: The sample has elevated detection limits due to the limited sample volume utilized during extraction and the dilution required by the sample matrix.

L2147704-04D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question G:

L2147704-03D and -04D: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2147704-02: The surrogate recovery is outside the individual acceptance criteria for 2,4,6-tribromophenol

Project Name: KCP
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Lab Number: L2147704
Report Date: 09/21/21

Case Narrative (continued)

(121%), but within the overall method allowances. The results of the original analysis are reported; however, all associated compounds are considered to have a potential bias.

The WG1543360-2/-3 LCS/LCSD recoveries, associated with L2147704-01 and -02, are below the individual acceptance criteria for aniline (31%/33%), but within the overall method allowances. The results of the associated samples are reported; however, all results for this compound are considered to have a potentially low bias.

PCBs

In reference to question H:

The WG1543434-2/-3 LCS/LCSD RPDs, associated with L2147704-01, are above the acceptance criteria for aroclor 1016 (24%) and aroclor 1260 (31%).

Pesticides

L2147704-03D and -04D: The sample has elevated detection limits due to the dilution required by the sample matrix.

In reference to question G:

L2147704-03D and -04D: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2147704-03D: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (311%/375%); however, the sample was not re-extracted due to coelution with obvious interferences.

L2147704-04D: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (263%/889%); however, the sample was not re-extracted due to coelution with obvious interferences.

L2147704-05: The internal standard (IS) response for 1-bromo-2-nitrobenzene (697%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences.

Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria

Project Name: KCP
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Case Narrative (continued)

for 2,4,5,6-tetrachloro-m-xylene (29%) and decachlorobiphenyl (5%) due to interference with the Internal Standard.

L2147704-05: The surrogate recovery is outside the acceptance criteria for decachlorobiphenyl (210%); however, the sample was not re-extracted due to coelution with obvious interferences.

Total Metals

L2147704-01: The sample has an elevated detection limit for sulfur due to the dilution required by matrix interferences encountered during analysis.

L2147704-02: The sample has elevated detection limit for mercury due to the prep dilution required by the sample matrix.

L2147704-05: The sample has an elevated detection limit for mercury due to the dilution required to quantitate the result within the calibration range.

In reference to question I:

L2147704-02 was analyzed for a subset of MCP analytes per client request.

Cyanide, Total

LCS/LCSD SRM Lot#: ERA D107-541

Non-MCP Related Narratives

Sample Receipt

L2147704-01: The sample was received without the container for the Sulfide analysis. An aliquot was taken from an unpreserved container and preserved appropriately.

Petroleum Hydrocarbon Quantitation

L2147704-02D, -03D, -04D, and -05D: The sample has an elevated detection limit due to the dilution required by the elevated concentration of target compound in the sample.

L2147704-05D: The surrogate recovery is outside the acceptance criteria for o-terphenyl (155%); however,

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
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Case Narrative (continued)

the sample was not re-extracted due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report.

Sulfide

The WG1544122-4 MS recovery, performed on L2147704-03, is outside the acceptance criteria for sulfide (22%); however, the associated LCS recovery is within criteria. No further action was taken.

Total Organic Carbon

The WG1545054-4 MS recoveries for total organic carbon (rep1) (0%) and total organic carbon (rep2) (0%), performed on L2147704-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

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: 09/21/21

QC OUTLIER SUMMARY REPORT

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics - Westborough Lab								
8260C	Batch QC	WG1544907-3	Chloromethane	LCS	63	70-130	01-02	potential low bias
8260C	Batch QC	WG1544907-3	2-Hexanone	LCS	65	70-130	01-02	potential low bias
8260C	Batch QC	WG1544907-4	Methylene chloride	LCSD	22	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	1,1-Dichloroethane	LCSD	28	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	1,1,2-Trichloroethane	LCSD	23	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	Benzene	LCSD	23	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	Toluene	LCSD	23	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	Chloromethane	LCSD	61	70-130	01-02	potential low bias
8260C	Batch QC	WG1544907-4	trans-1,2-Dichloroethene	LCSD	23	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	1,2-Dichlorobenzene	LCSD	21	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	Methyl ethyl ketone	LCSD	64	70-130	01-02	potential low bias
8260C	Batch QC	WG1544907-4	Methyl isobutyl ketone	LCSD	22	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	Methyl isobutyl ketone	LCSD	57	70-130	01-02	potential low bias
8260C	Batch QC	WG1544907-4	2-Hexanone	LCSD	57	70-130	01-02	potential low bias
8260C	Batch QC	WG1544907-4	Tetrahydrofuran	LCSD	27	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	Tetrahydrofuran	LCSD	61	70-130	01-02	potential low bias
8260C	Batch QC	WG1544907-4	2,2-Dichloropropane	LCSD	24	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	1,3-Dichloropropane	LCSD	24	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	n-Butylbenzene	LCSD	23	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	sec-Butylbenzene	LCSD	21	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	tert-Butylbenzene	LCSD	22	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	p-Chlorotoluene	LCSD	21	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	p-Isopropyltoluene	LCSD	24	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	n-Propylbenzene	LCSD	27	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	1,3,5-Trimethylbenzene	LCSD	26	20	01-02	non-directional bias
8260C	Batch QC	WG1544907-4	Diisopropyl Ether	LCSD	30	20	01-02	non-directional bias

MCP Volatile Organics by EPA 5035 Low - Westborough Lab

8260C	Batch QC	WG1545666-4	Dichlorodifluoromethane	LCSD	67	70-130	06	potential low bias
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QC OUTLIER SUMMARY REPORT

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Semivolatile Organics - Westborough Lab								
8270D	IDW	L2147704-02	2,4,6-Tribromophenol	Surrogate	121	15-110	-	potential high bias
8270D	Batch QC	WG1543360-2	Aniline	LCS	31	40-140	01-02	potential low bias
8270D	Batch QC	WG1543360-3	Aniline	LCSD	33	40-140	01-02	potential low bias
Petroleum Hydrocarbon Quantitation - Westborough Lab								
8015D(M)	COMP-1011	L2147704-05 D	o-Terphenyl	Surrogate	155	40-140	-	potential high bias
MCP Polychlorinated Biphenyls - Westborough Lab								
8082A	Batch QC	WG1543434-3	Aroclor 1016 (A)	LCSD	24	20	01	non-directional bias
8082A	Batch QC	WG1543434-3	Aroclor 1260 (A)	LCSD	31	20	01	non-directional bias
MCP Organochlorine Pesticides - Westborough Lab								
8081B	COMP-0203	L2147704-03 D	Decachlorobiphenyl (A)	Surrogate	311	30-150	-	potential high bias
8081B	COMP-0203	L2147704-03 D	Decachlorobiphenyl (B)	Surrogate	375	30-150	-	potential high bias
8081B	COMP-0506	L2147704-04 D	Decachlorobiphenyl (A)	Surrogate	263	30-150	-	potential high bias
8081B	COMP-0506	L2147704-04 D	Decachlorobiphenyl (B)	Surrogate	889	30-150	-	potential high bias
8081B	COMP-1011	L2147704-05	2,4,5,6-Tetrachloro-m-xylene (A)	Surrogate	29	30-150	-	potential low bias
8081B	COMP-1011	L2147704-05	Decachlorobiphenyl (A)	Surrogate	5	30-150	-	potential low bias
8081B	COMP-1011	L2147704-05	Decachlorobiphenyl (B)	Surrogate	210	30-150	-	potential high bias
General Chemistry - Westborough Lab								
9030B	Batch QC (L2147704-03)	WG1544122-4	Sulfide	MS	22	70-130	03-05	potential low bias
Total Organic Carbon - Mansfield Lab								
9060A	Batch QC (L2147704-03)	WG1545054-4	Total Organic Carbon (Rep1)	MS	0	75-125	03-05	potential low bias
9060A	Batch QC (L2147704-03)	WG1545054-4	Total Organic Carbon (Rep2)	MS	0	75-125	03-05	potential low bias



ORGANICS



VOLATILES

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 09/10/21 13:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	115		70-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02
Client ID: IDW
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 09/10/21 14:36
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	2.5		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	1.0		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	1.9		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02
Client ID: IDW
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	99		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	5.4		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	16		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02
Client ID: IDW
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	118		70-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-06
Client ID: BH-11-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 11:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/13/21 10:05
Analyst: MV
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	10	--	1
1,1-Dichloroethane	ND		ug/kg	2.1	--	1
Chloroform	ND		ug/kg	3.1	--	1
Carbon tetrachloride	ND		ug/kg	2.1	--	1
1,2-Dichloropropane	ND		ug/kg	2.1	--	1
Dibromochloromethane	ND		ug/kg	2.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	--	1
Tetrachloroethene	ND		ug/kg	1.0	--	1
Chlorobenzene	ND		ug/kg	1.0	--	1
Trichlorofluoromethane	ND		ug/kg	8.3	--	1
1,2-Dichloroethane	ND		ug/kg	2.1	--	1
1,1,1-Trichloroethane	2.0		ug/kg	1.0	--	1
Bromodichloromethane	ND		ug/kg	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/kg	2.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--	1
1,1-Dichloropropene	ND		ug/kg	1.0	--	1
Bromoform	ND		ug/kg	8.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--	1
Benzene	ND		ug/kg	1.0	--	1
Toluene	ND		ug/kg	2.1	--	1
Ethylbenzene	ND		ug/kg	2.1	--	1
Chloromethane	ND		ug/kg	8.3	--	1
Bromomethane	ND		ug/kg	4.1	--	1
Vinyl chloride	ND		ug/kg	2.1	--	1
Chloroethane	ND		ug/kg	4.1	--	1
1,1-Dichloroethene	ND		ug/kg	2.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	3.1	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-06
Client ID: BH-11-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 11:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	--	1
1,2-Dichlorobenzene	ND		ug/kg	4.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	4.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	4.1	--	1
Methyl tert butyl ether	ND		ug/kg	4.1	--	1
p/m-Xylene	ND		ug/kg	4.1	--	1
o-Xylene	ND		ug/kg	2.1	--	1
Xylenes, Total	ND		ug/kg	2.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	2.1	--	1
Dibromomethane	ND		ug/kg	4.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	4.1	--	1
Styrene	ND		ug/kg	2.1	--	1
Dichlorodifluoromethane	ND		ug/kg	21	--	1
Acetone	ND		ug/kg	52	--	1
Carbon disulfide	ND		ug/kg	21	--	1
Methyl ethyl ketone	ND		ug/kg	21	--	1
Methyl isobutyl ketone	ND		ug/kg	21	--	1
2-Hexanone	ND		ug/kg	21	--	1
Bromochloromethane	ND		ug/kg	4.1	--	1
Tetrahydrofuran	ND		ug/kg	8.3	--	1
2,2-Dichloropropane	ND		ug/kg	4.1	--	1
1,2-Dibromoethane	ND		ug/kg	2.1	--	1
1,3-Dichloropropane	ND		ug/kg	4.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--	1
Bromobenzene	ND		ug/kg	4.1	--	1
n-Butylbenzene	ND		ug/kg	2.1	--	1
sec-Butylbenzene	ND		ug/kg	2.1	--	1
tert-Butylbenzene	ND		ug/kg	4.1	--	1
o-Chlorotoluene	ND		ug/kg	4.1	--	1
p-Chlorotoluene	ND		ug/kg	4.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	--	1
Hexachlorobutadiene	ND		ug/kg	8.3	--	1
Isopropylbenzene	ND		ug/kg	2.1	--	1
p-Isopropyltoluene	ND		ug/kg	2.1	--	1
Naphthalene	ND		ug/kg	8.3	--	1
n-Propylbenzene	ND		ug/kg	2.1	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-06
Client ID: BH-11-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 11:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	4.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.1	--	1
Diethyl ether	ND		ug/kg	4.1	--	1
Diisopropyl Ether	ND		ug/kg	4.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.1	--	1
1,4-Dioxane	ND		ug/kg	160	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-07
Client ID: BH-11-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 11:25
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/11/21 13:58
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.7	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.58	--	1
Chlorobenzene	ND		ug/kg	0.58	--	1
Trichlorofluoromethane	ND		ug/kg	4.6	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	--	1
Bromodichloromethane	ND		ug/kg	0.58	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	--	1
1,1-Dichloropropene	ND		ug/kg	0.58	--	1
Bromoform	ND		ug/kg	4.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	--	1
Benzene	ND		ug/kg	0.58	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.6	--	1
Bromomethane	ND		ug/kg	2.3	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-07
Client ID: BH-11-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 11:25
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	--	1
Methyl tert butyl ether	ND		ug/kg	2.3	--	1
p/m-Xylene	ND		ug/kg	2.3	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	29	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.3	--	1
Tetrahydrofuran	ND		ug/kg	4.6	--	1
2,2-Dichloropropane	ND		ug/kg	2.3	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	--	1
Bromobenzene	ND		ug/kg	2.3	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.3	--	1
o-Chlorotoluene	ND		ug/kg	2.3	--	1
p-Chlorotoluene	ND		ug/kg	2.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	--	1
Hexachlorobutadiene	ND		ug/kg	4.6	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.6	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-07
Client ID: BH-11-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 11:25
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	--	1
Diethyl ether	ND		ug/kg	2.3	--	1
Diisopropyl Ether	ND		ug/kg	2.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.3	--	1
1,4-Dioxane	ND		ug/kg	93	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	117		70-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-08
Client ID: BH-11-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 12:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/11/21 16:37
Analyst: AJK
Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	320	--	1
1,1-Dichloroethane	ND		ug/kg	63	--	1
Chloroform	ND		ug/kg	95	--	1
Carbon tetrachloride	ND		ug/kg	63	--	1
1,2-Dichloropropane	ND		ug/kg	63	--	1
Dibromochloromethane	ND		ug/kg	63	--	1
1,1,2-Trichloroethane	ND		ug/kg	63	--	1
Tetrachloroethene	ND		ug/kg	32	--	1
Chlorobenzene	ND		ug/kg	32	--	1
Trichlorofluoromethane	ND		ug/kg	250	--	1
1,2-Dichloroethane	ND		ug/kg	63	--	1
1,1,1-Trichloroethane	ND		ug/kg	32	--	1
Bromodichloromethane	ND		ug/kg	32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	63	--	1
cis-1,3-Dichloropropene	ND		ug/kg	32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	32	--	1
1,1-Dichloropropene	ND		ug/kg	32	--	1
Bromoform	ND		ug/kg	250	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	32	--	1
Benzene	75		ug/kg	32	--	1
Toluene	ND		ug/kg	63	--	1
Ethylbenzene	ND		ug/kg	63	--	1
Chloromethane	ND		ug/kg	250	--	1
Bromomethane	ND		ug/kg	130	--	1
Vinyl chloride	ND		ug/kg	63	--	1
Chloroethane	ND		ug/kg	130	--	1
1,1-Dichloroethene	ND		ug/kg	63	--	1
trans-1,2-Dichloroethene	ND		ug/kg	95	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-08
Client ID: BH-11-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 12:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	32	--	1
1,2-Dichlorobenzene	ND		ug/kg	130	--	1
1,3-Dichlorobenzene	ND		ug/kg	130	--	1
1,4-Dichlorobenzene	ND		ug/kg	130	--	1
Methyl tert butyl ether	ND		ug/kg	130	--	1
p/m-Xylene	ND		ug/kg	130	--	1
o-Xylene	ND		ug/kg	63	--	1
Xylenes, Total	ND		ug/kg	63	--	1
cis-1,2-Dichloroethene	ND		ug/kg	63	--	1
1,2-Dichloroethene, Total	ND		ug/kg	63	--	1
Dibromomethane	ND		ug/kg	130	--	1
1,2,3-Trichloropropane	ND		ug/kg	130	--	1
Styrene	ND		ug/kg	63	--	1
Dichlorodifluoromethane	ND		ug/kg	630	--	1
Acetone	1200		ug/kg	630	--	1
Carbon disulfide	ND		ug/kg	630	--	1
Methyl ethyl ketone	ND		ug/kg	630	--	1
Methyl isobutyl ketone	ND		ug/kg	630	--	1
2-Hexanone	ND		ug/kg	630	--	1
Bromochloromethane	ND		ug/kg	130	--	1
Tetrahydrofuran	ND		ug/kg	250	--	1
2,2-Dichloropropane	ND		ug/kg	130	--	1
1,2-Dibromoethane	ND		ug/kg	63	--	1
1,3-Dichloropropane	ND		ug/kg	130	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	32	--	1
Bromobenzene	ND		ug/kg	130	--	1
n-Butylbenzene	ND		ug/kg	63	--	1
sec-Butylbenzene	ND		ug/kg	63	--	1
tert-Butylbenzene	ND		ug/kg	130	--	1
o-Chlorotoluene	ND		ug/kg	130	--	1
p-Chlorotoluene	ND		ug/kg	130	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	--	1
Hexachlorobutadiene	ND		ug/kg	250	--	1
Isopropylbenzene	ND		ug/kg	63	--	1
p-Isopropyltoluene	ND		ug/kg	63	--	1
Naphthalene	1300		ug/kg	250	--	1
n-Propylbenzene	ND		ug/kg	63	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-08
Client ID: BH-11-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 12:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	130	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	--	1
Diethyl ether	ND		ug/kg	130	--	1
Diisopropyl Ether	ND		ug/kg	130	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	130	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	130	--	1
1,4-Dioxane	ND		ug/kg	5100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	111		70-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/10/21 05:49
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1544907-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/10/21 05:49
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1544907-5					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
Methyl ethyl ketone	ND		ug/l	5.0	--
Methyl isobutyl ketone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/10/21 05:49
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1544907-5					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Diethyl ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	124		70-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/11/21 10:28
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1545484-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/11/21 10:28
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1545484-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/11/21 10:28
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07 Batch: WG1545484-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/11/21 10:28
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08 Batch: WG1545485-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/11/21 10:28
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08 Batch: WG1545485-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/11/21 10:28
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08 Batch: WG1545485-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/13/21 06:06
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1545666-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
 Analytical Date: 09/13/21 06:06
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1545666-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/13/21 06:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06 Batch: WG1545666-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1544907-3 WG1544907-4								
Methylene chloride	110		88		70-130	22	Q	20
1,1-Dichloroethane	110		83		70-130	28	Q	20
Chloroform	110		91		70-130	19		20
Carbon tetrachloride	110		95		70-130	15		20
1,2-Dichloropropane	100		84		70-130	17		20
Dibromochloromethane	96		84		70-130	13		20
1,1,2-Trichloroethane	97		77		70-130	23	Q	20
Tetrachloroethene	110		93		70-130	17		20
Chlorobenzene	110		93		70-130	17		20
Trichlorofluoromethane	120		110		70-130	9		20
1,2-Dichloroethane	99		85		70-130	15		20
1,1,1-Trichloroethane	110		96		70-130	14		20
Bromodichloromethane	100		88		70-130	13		20
trans-1,3-Dichloropropene	95		79		70-130	18		20
cis-1,3-Dichloropropene	100		87		70-130	14		20
1,1-Dichloropropene	110		90		70-130	20		20
Bromoform	94		79		70-130	17		20
1,1,2,2-Tetrachloroethane	96		80		70-130	18		20
Benzene	110		87		70-130	23	Q	20
Toluene	110		87		70-130	23	Q	20
Ethylbenzene	110		90		70-130	20		20
Chloromethane	63	Q	61	Q	70-130	3		20
Bromomethane	120		100		70-130	18		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1544907-3 WG1544907-4								
Vinyl chloride	86		78		70-130	10		20
Chloroethane	96		91		70-130	5		20
1,1-Dichloroethene	120		110		70-130	9		20
trans-1,2-Dichloroethene	120		95		70-130	23	Q	20
Trichloroethene	110		93		70-130	17		20
1,2-Dichlorobenzene	110		89		70-130	21	Q	20
1,3-Dichlorobenzene	110		94		70-130	16		20
1,4-Dichlorobenzene	110		94		70-130	16		20
Methyl tert butyl ether	89		80		70-130	11		20
p/m-Xylene	105		90		70-130	15		20
o-Xylene	110		90		70-130	20		20
cis-1,2-Dichloroethene	110		94		70-130	16		20
Dibromomethane	100		89		70-130	12		20
1,2,3-Trichloropropane	90		77		70-130	16		20
Styrene	110		90		70-130	20		20
Dichlorodifluoromethane	76		72		70-130	5		20
Acetone	89		74		70-130	18		20
Carbon disulfide	120		110		70-130	9		20
Methyl ethyl ketone	71		64	Q	70-130	10		20
Methyl isobutyl ketone	71		57	Q	70-130	22	Q	20
2-Hexanone	65	Q	57	Q	70-130	13		20
Bromochloromethane	120		100		70-130	18		20
Tetrahydrofuran	80		61	Q	70-130	27	Q	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1544907-3 WG1544907-4								
2,2-Dichloropropane	120		94		70-130	24	Q	20
1,2-Dibromoethane	92		79		70-130	15		20
1,3-Dichloropropane	94		74		70-130	24	Q	20
1,1,1,2-Tetrachloroethane	100		90		70-130	11		20
Bromobenzene	110		94		70-130	16		20
n-Butylbenzene	110		87		70-130	23	Q	20
sec-Butylbenzene	110		89		70-130	21	Q	20
tert-Butylbenzene	120		96		70-130	22	Q	20
o-Chlorotoluene	110		91		70-130	19		20
p-Chlorotoluene	110		89		70-130	21	Q	20
1,2-Dibromo-3-chloropropane	79		73		70-130	8		20
Hexachlorobutadiene	110		99		70-130	11		20
Isopropylbenzene	110		90		70-130	20		20
p-Isopropyltoluene	120		94		70-130	24	Q	20
Naphthalene	83		77		70-130	8		20
n-Propylbenzene	120		91		70-130	27	Q	20
1,2,3-Trichlorobenzene	94		87		70-130	8		20
1,2,4-Trichlorobenzene	100		86		70-130	15		20
1,3,5-Trimethylbenzene	120		92		70-130	26	Q	20
1,2,4-Trimethylbenzene	110		90		70-130	20		20
Diethyl ether	96		100		70-130	4		20
Diisopropyl Ether	95		70		70-130	30	Q	20
Ethyl-Tert-Butyl-Ether	87		71		70-130	20		20

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1544907-3 WG1544907-4								
Tertiary-Amyl Methyl Ether	88		78		70-130	12		20
1,4-Dioxane	106		96		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		92		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	99		93		70-130
Dibromofluoromethane	106		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1545484-3 WG1545484-4								
Methylene chloride	109		107		70-130	2		20
1,1-Dichloroethane	116		114		70-130	2		20
Chloroform	104		102		70-130	2		20
Carbon tetrachloride	104		102		70-130	2		20
1,2-Dichloropropane	110		109		70-130	1		20
Dibromochloromethane	103		103		70-130	0		20
1,1,2-Trichloroethane	103		102		70-130	1		20
Tetrachloroethene	97		95		70-130	2		20
Chlorobenzene	98		96		70-130	2		20
Trichlorofluoromethane	89		85		70-130	5		20
1,2-Dichloroethane	112		110		70-130	2		20
1,1,1-Trichloroethane	106		103		70-130	3		20
Bromodichloromethane	105		106		70-130	1		20
trans-1,3-Dichloropropene	110		108		70-130	2		20
cis-1,3-Dichloropropene	108		108		70-130	0		20
1,1-Dichloropropene	104		101		70-130	3		20
Bromoform	95		95		70-130	0		20
1,1,2,2-Tetrachloroethane	103		103		70-130	0		20
Benzene	103		102		70-130	1		20
Toluene	98		97		70-130	1		20
Ethylbenzene	100		98		70-130	2		20
Chloromethane	119		115		70-130	3		20
Bromomethane	96		90		70-130	6		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1545484-3 WG1545484-4								
Vinyl chloride	99		96		70-130	3		20
Chloroethane	86		81		70-130	6		20
1,1-Dichloroethene	108		104		70-130	4		20
trans-1,2-Dichloroethene	103		102		70-130	1		20
Trichloroethene	102		100		70-130	2		20
1,2-Dichlorobenzene	95		95		70-130	0		20
1,3-Dichlorobenzene	96		93		70-130	3		20
1,4-Dichlorobenzene	95		94		70-130	1		20
Methyl tert butyl ether	104		103		70-130	1		20
p/m-Xylene	98		97		70-130	1		20
o-Xylene	97		96		70-130	1		20
cis-1,2-Dichloroethene	105		103		70-130	2		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		98		70-130	2		20
Styrene	99		98		70-130	1		20
Dichlorodifluoromethane	92		87		70-130	6		20
Acetone	122		116		70-130	5		20
Carbon disulfide	103		100		70-130	3		20
Methyl ethyl ketone	117		108		70-130	8		20
Methyl isobutyl ketone	90		95		70-130	5		20
2-Hexanone	102		106		70-130	4		20
Bromochloromethane	101		100		70-130	1		20
Tetrahydrofuran	114		116		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1545484-3 WG1545484-4								
2,2-Dichloropropane	107		105		70-130	2		20
1,2-Dibromoethane	101		99		70-130	2		20
1,3-Dichloropropane	102		102		70-130	0		20
1,1,1,2-Tetrachloroethane	102		102		70-130	0		20
Bromobenzene	92		91		70-130	1		20
n-Butylbenzene	100		98		70-130	2		20
sec-Butylbenzene	97		95		70-130	2		20
tert-Butylbenzene	96		96		70-130	0		20
o-Chlorotoluene	99		97		70-130	2		20
p-Chlorotoluene	101		100		70-130	1		20
1,2-Dibromo-3-chloropropane	86		86		70-130	0		20
Hexachlorobutadiene	99		97		70-130	2		20
Isopropylbenzene	99		97		70-130	2		20
p-Isopropyltoluene	97		96		70-130	1		20
Naphthalene	90		90		70-130	0		20
n-Propylbenzene	97		96		70-130	1		20
1,2,3-Trichlorobenzene	95		94		70-130	1		20
1,2,4-Trichlorobenzene	95		94		70-130	1		20
1,3,5-Trimethylbenzene	99		97		70-130	2		20
1,2,4-Trimethylbenzene	99		98		70-130	1		20
Diethyl ether	85		83		70-130	2		20
Diisopropyl Ether	124		123		70-130	1		20
Ethyl-Tert-Butyl-Ether	116		116		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07 Batch: WG1545484-3 WG1545484-4								
Tertiary-Amyl Methyl Ether	103		104		70-130	1		20
1,4-Dioxane	104		104		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		112		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	108		106		70-130
Dibromofluoromethane	105		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1545485-3 WG1545485-4								
Methylene chloride	109		107		70-130	2		20
1,1-Dichloroethane	116		114		70-130	2		20
Chloroform	104		102		70-130	2		20
Carbon tetrachloride	104		102		70-130	2		20
1,2-Dichloropropane	110		109		70-130	1		20
Dibromochloromethane	103		103		70-130	0		20
1,1,2-Trichloroethane	103		102		70-130	1		20
Tetrachloroethene	97		95		70-130	2		20
Chlorobenzene	98		96		70-130	2		20
Trichlorofluoromethane	89		85		70-130	5		20
1,2-Dichloroethane	112		110		70-130	2		20
1,1,1-Trichloroethane	106		103		70-130	3		20
Bromodichloromethane	105		106		70-130	1		20
trans-1,3-Dichloropropene	110		108		70-130	2		20
cis-1,3-Dichloropropene	108		108		70-130	0		20
1,1-Dichloropropene	104		101		70-130	3		20
Bromoform	95		95		70-130	0		20
1,1,2,2-Tetrachloroethane	103		103		70-130	0		20
Benzene	103		102		70-130	1		20
Toluene	98		97		70-130	1		20
Ethylbenzene	100		98		70-130	2		20
Chloromethane	119		115		70-130	3		20
Bromomethane	96		90		70-130	6		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1545485-3 WG1545485-4								
Vinyl chloride	99		96		70-130	3		20
Chloroethane	86		81		70-130	6		20
1,1-Dichloroethene	108		104		70-130	4		20
trans-1,2-Dichloroethene	103		102		70-130	1		20
Trichloroethene	102		100		70-130	2		20
1,2-Dichlorobenzene	95		95		70-130	0		20
1,3-Dichlorobenzene	96		93		70-130	3		20
1,4-Dichlorobenzene	95		94		70-130	1		20
Methyl tert butyl ether	104		103		70-130	1		20
p/m-Xylene	98		97		70-130	1		20
o-Xylene	97		96		70-130	1		20
cis-1,2-Dichloroethene	105		103		70-130	2		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		98		70-130	2		20
Styrene	99		98		70-130	1		20
Dichlorodifluoromethane	92		87		70-130	6		20
Acetone	122		116		70-130	5		20
Carbon disulfide	103		100		70-130	3		20
Methyl ethyl ketone	117		108		70-130	8		20
Methyl isobutyl ketone	90		95		70-130	5		20
2-Hexanone	102		106		70-130	4		20
Bromochloromethane	101		100		70-130	1		20
Tetrahydrofuran	114		116		70-130	2		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1545485-3 WG1545485-4								
2,2-Dichloropropane	107		105		70-130	2		20
1,2-Dibromoethane	101		99		70-130	2		20
1,3-Dichloropropane	102		102		70-130	0		20
1,1,1,2-Tetrachloroethane	102		102		70-130	0		20
Bromobenzene	92		91		70-130	1		20
n-Butylbenzene	100		98		70-130	2		20
sec-Butylbenzene	97		95		70-130	2		20
tert-Butylbenzene	96		96		70-130	0		20
o-Chlorotoluene	99		97		70-130	2		20
p-Chlorotoluene	101		100		70-130	1		20
1,2-Dibromo-3-chloropropane	86		86		70-130	0		20
Hexachlorobutadiene	99		97		70-130	2		20
Isopropylbenzene	99		97		70-130	2		20
p-Isopropyltoluene	97		96		70-130	1		20
Naphthalene	90		90		70-130	0		20
n-Propylbenzene	97		96		70-130	1		20
1,2,3-Trichlorobenzene	95		94		70-130	1		20
1,2,4-Trichlorobenzene	95		94		70-130	1		20
1,3,5-Trimethylbenzene	99		97		70-130	2		20
1,2,4-Trimethylbenzene	99		98		70-130	1		20
Diethyl ether	85		83		70-130	2		20
Diisopropyl Ether	124		123		70-130	1		20
Ethyl-Tert-Butyl-Ether	116		116		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1545485-3 WG1545485-4								
Tertiary-Amyl Methyl Ether	103		104		70-130	1		20
1,4-Dioxane	104		104		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		112		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	108		106		70-130
Dibromofluoromethane	105		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1545666-3 WG1545666-4								
Methylene chloride	102		100		70-130	2		20
1,1-Dichloroethane	112		111		70-130	1		20
Chloroform	95		95		70-130	0		20
Carbon tetrachloride	103		101		70-130	2		20
1,2-Dichloropropane	105		106		70-130	1		20
Dibromochloromethane	103		104		70-130	1		20
1,1,2-Trichloroethane	104		104		70-130	0		20
Tetrachloroethene	105		102		70-130	3		20
Chlorobenzene	101		100		70-130	1		20
Trichlorofluoromethane	82		81		70-130	1		20
1,2-Dichloroethane	102		103		70-130	1		20
1,1,1-Trichloroethane	103		102		70-130	1		20
Bromodichloromethane	100		101		70-130	1		20
trans-1,3-Dichloropropene	109		109		70-130	0		20
cis-1,3-Dichloropropene	103		104		70-130	1		20
1,1-Dichloropropene	103		101		70-130	2		20
Bromoform	96		98		70-130	2		20
1,1,2,2-Tetrachloroethane	105		106		70-130	1		20
Benzene	100		99		70-130	1		20
Toluene	104		102		70-130	2		20
Ethylbenzene	105		103		70-130	2		20
Chloromethane	109		101		70-130	8		20
Bromomethane	86		79		70-130	8		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1545666-3 WG1545666-4								
Vinyl chloride	95		91		70-130	4		20
Chloroethane	77		75		70-130	3		20
1,1-Dichloroethene	105		105		70-130	0		20
trans-1,2-Dichloroethene	101		101		70-130	0		20
Trichloroethene	101		99		70-130	2		20
1,2-Dichlorobenzene	98		96		70-130	2		20
1,3-Dichlorobenzene	100		98		70-130	2		20
1,4-Dichlorobenzene	100		98		70-130	2		20
Methyl tert butyl ether	97		98		70-130	1		20
p/m-Xylene	103		102		70-130	1		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	99		99		70-130	0		20
Dibromomethane	92		94		70-130	2		20
1,2,3-Trichloropropane	102		102		70-130	0		20
Styrene	102		102		70-130	0		20
Dichlorodifluoromethane	70		67	Q	70-130	4		20
Acetone	106		112		70-130	6		20
Carbon disulfide	100		99		70-130	1		20
Methyl ethyl ketone	108		111		70-130	3		20
Methyl isobutyl ketone	96		98		70-130	2		20
2-Hexanone	107		112		70-130	5		20
Bromochloromethane	95		94		70-130	1		20
Tetrahydrofuran	109		111		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1545666-3 WG1545666-4								
2,2-Dichloropropane	104		102		70-130	2		20
1,2-Dibromoethane	102		103		70-130	1		20
1,3-Dichloropropane	103		104		70-130	1		20
1,1,1,2-Tetrachloroethane	105		105		70-130	0		20
Bromobenzene	96		94		70-130	2		20
n-Butylbenzene	108		106		70-130	2		20
sec-Butylbenzene	105		102		70-130	3		20
tert-Butylbenzene	104		101		70-130	3		20
o-Chlorotoluene	107		102		70-130	5		20
p-Chlorotoluene	107		105		70-130	2		20
1,2-Dibromo-3-chloropropane	88		91		70-130	3		20
Hexachlorobutadiene	108		105		70-130	3		20
Isopropylbenzene	107		104		70-130	3		20
p-Isopropyltoluene	105		102		70-130	3		20
Naphthalene	92		93		70-130	1		20
n-Propylbenzene	106		103		70-130	3		20
1,2,3-Trichlorobenzene	98		99		70-130	1		20
1,2,4-Trichlorobenzene	102		100		70-130	2		20
1,3,5-Trimethylbenzene	106		102		70-130	4		20
1,2,4-Trimethylbenzene	105		103		70-130	2		20
Diethyl ether	77		77		70-130	0		20
Diisopropyl Ether	120		119		70-130	1		20
Ethyl-Tert-Butyl-Ether	111		111		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06 Batch: WG1545666-3 WG1545666-4								
Tertiary-Amyl Methyl Ether	98		100		70-130	2		20
1,4-Dioxane	97		102		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		109		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	107		108		70-130
Dibromofluoromethane	103		102		70-130

SEMIVOLATILES

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 97,8270D
Analytical Date: 09/08/21 07:21
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 05:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	2.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
2-Chloronaphthalene	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
Fluoranthene	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	2.0	--	1
Hexachloroethane	ND		ug/l	2.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	2.0	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/l	2.0	--	1
Benzo(b)fluoranthene	ND		ug/l	2.0	--	1
Benzo(k)fluoranthene	ND		ug/l	2.0	--	1
Chrysene	ND		ug/l	2.0	--	1
Acenaphthylene	ND		ug/l	2.0	--	1
Anthracene	ND		ug/l	2.0	--	1
Benzo(ghi)perylene	ND		ug/l	2.0	--	1
Fluorene	ND		ug/l	2.0	--	1
Phenanthrene	ND		ug/l	2.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--	1
Pyrene	ND		ug/l	2.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
2-Methylnaphthalene	ND		ug/l	2.0	--	1
Acetophenone	ND		ug/l	5.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
Pentachlorophenol	ND		ug/l	10	--	1
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
 Client ID: GW-BH-10
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Semivolatile Organics - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		15-110
Phenol-d6	73		15-110
Nitrobenzene-d5	83		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	99		15-110
4-Terphenyl-d14	99		30-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02
Client ID: IDW
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 97,8270D
Analytical Date: 09/08/21 07:47
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 05:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	5.0		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	2.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
2-Chloronaphthalene	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
Fluoranthene	7.0		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	2.0	--	1
Hexachloroethane	ND		ug/l	2.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	4.1		ug/l	2.0	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02
Client ID: IDW
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	4.1		ug/l	2.0	--	1
Benzo(b)fluoranthene	5.2		ug/l	2.0	--	1
Benzo(k)fluoranthene	ND		ug/l	2.0	--	1
Chrysene	3.9		ug/l	2.0	--	1
Acenaphthylene	ND		ug/l	2.0	--	1
Anthracene	2.8		ug/l	2.0	--	1
Benzo(ghi)perylene	3.3		ug/l	2.0	--	1
Fluorene	3.6		ug/l	2.0	--	1
Phenanthrene	5.4		ug/l	2.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	1
Indeno(1,2,3-cd)pyrene	3.0		ug/l	2.0	--	1
Pyrene	7.5		ug/l	2.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
2-Methylnaphthalene	ND		ug/l	2.0	--	1
Acetophenone	ND		ug/l	5.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
Pentachlorophenol	ND		ug/l	10	--	1
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02
Client ID: IDW
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		15-110
Phenol-d6	84		15-110
Nitrobenzene-d5	109		30-130
2-Fluorobiphenyl	100		30-130
2,4,6-Tribromophenol	121	Q	15-110
4-Terphenyl-d14	78		30-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03 D
Client ID: COMP-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 09/10/21 14:00
Analyst: JG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 09/06/21 17:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	4100	--	10
1,2,4-Trichlorobenzene	ND		ug/kg	5200	--	10
Hexachlorobenzene	ND		ug/kg	2200	--	10
Bis(2-chloroethyl)ether	ND		ug/kg	2200	--	10
2-Chloronaphthalene	ND		ug/kg	5200	--	10
1,2-Dichlorobenzene	ND		ug/kg	5200	--	10
1,3-Dichlorobenzene	ND		ug/kg	5200	--	10
1,4-Dichlorobenzene	ND		ug/kg	2200	--	10
3,3'-Dichlorobenzidine	ND		ug/kg	5200	--	10
2,4-Dinitrotoluene	ND		ug/kg	2200	--	10
2,6-Dinitrotoluene	ND		ug/kg	5200	--	10
Azobenzene	ND		ug/kg	5200	--	10
Fluoranthene	61000		ug/kg	3100	--	10
4-Bromophenyl phenyl ether	ND		ug/kg	5200	--	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	--	10
Bis(2-chloroethoxy)methane	ND		ug/kg	5600	--	10
Hexachlorobutadiene	ND		ug/kg	5200	--	10
Hexachloroethane	ND		ug/kg	2200	--	10
Isophorone	ND		ug/kg	4600	--	10
Naphthalene	6600		ug/kg	5200	--	10
Nitrobenzene	ND		ug/kg	4600	--	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	5200	--	10
Butyl benzyl phthalate	ND		ug/kg	5200	--	10
Di-n-butylphthalate	ND		ug/kg	5200	--	10
Di-n-octylphthalate	ND		ug/kg	5200	--	10
Diethyl phthalate	ND		ug/kg	5200	--	10
Dimethyl phthalate	ND		ug/kg	2200	--	10
Benzo(a)anthracene	53000		ug/kg	3100	--	10



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03 D
Client ID: COMP-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	46000		ug/kg	4100	--	10
Benzo(b)fluoranthene	55000		ug/kg	3100	--	10
Benzo(k)fluoranthene	16000		ug/kg	3100	--	10
Chrysene	56000		ug/kg	3100	--	10
Acenaphthylene	14000		ug/kg	4100	--	10
Anthracene	11000		ug/kg	3100	--	10
Benzo(ghi)perylene	25000		ug/kg	4100	--	10
Fluorene	ND		ug/kg	5200	--	10
Phenanthrene	58000		ug/kg	3100	--	10
Dibenzo(a,h)anthracene	6900		ug/kg	2200	--	10
Indeno(1,2,3-cd)pyrene	26000		ug/kg	4100	--	10
Pyrene	87000		ug/kg	3100	--	10
Aniline	ND		ug/kg	6200	--	10
4-Chloroaniline	ND		ug/kg	5200	--	10
Dibenzofuran	ND		ug/kg	5200	--	10
2-Methylnaphthalene	3900		ug/kg	2200	--	10
Acetophenone	ND		ug/kg	5200	--	10
2,4,6-Trichlorophenol	ND		ug/kg	2200	--	10
2-Chlorophenol	ND		ug/kg	2200	--	10
2,4-Dichlorophenol	ND		ug/kg	2200	--	10
2,4-Dimethylphenol	ND		ug/kg	2200	--	10
2-Nitrophenol	ND		ug/kg	11000	--	10
4-Nitrophenol	ND		ug/kg	7200	--	10
2,4-Dinitrophenol	ND		ug/kg	25000	--	10
Pentachlorophenol	ND		ug/kg	10000	--	10
Phenol	ND		ug/kg	5200	--	10
2-Methylphenol	ND		ug/kg	5200	--	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	7400	--	10
2,4,5-Trichlorophenol	ND		ug/kg	5200	--	10



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03 D
 Client ID: COMP-0203
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Semivolatile Organics - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		30-130
Phenol-d6	51		30-130
Nitrobenzene-d5	54		30-130
2-Fluorobiphenyl	61		30-130
2,4,6-Tribromophenol	39		30-130
4-Terphenyl-d14	63		30-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04 D
Client ID: COMP-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 09/10/21 14:24
Analyst: JG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 09/06/21 17:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	7800		ug/kg	1500	--	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	--	10
Hexachlorobenzene	ND		ug/kg	790	--	10
Bis(2-chloroethyl)ether	ND		ug/kg	790	--	10
2-Chloronaphthalene	ND		ug/kg	1900	--	10
1,2-Dichlorobenzene	ND		ug/kg	1900	--	10
1,3-Dichlorobenzene	ND		ug/kg	1900	--	10
1,4-Dichlorobenzene	ND		ug/kg	790	--	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	--	10
2,4-Dinitrotoluene	ND		ug/kg	790	--	10
2,6-Dinitrotoluene	ND		ug/kg	1900	--	10
Azobenzene	ND		ug/kg	1900	--	10
Fluoranthene	63000		ug/kg	1100	--	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	--	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	790	--	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	--	10
Hexachlorobutadiene	ND		ug/kg	1900	--	10
Hexachloroethane	ND		ug/kg	790	--	10
Isophorone	ND		ug/kg	1700	--	10
Naphthalene	3200		ug/kg	1900	--	10
Nitrobenzene	ND		ug/kg	1700	--	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1900	--	10
Butyl benzyl phthalate	ND		ug/kg	1900	--	10
Di-n-butylphthalate	ND		ug/kg	1900	--	10
Di-n-octylphthalate	ND		ug/kg	1900	--	10
Diethyl phthalate	ND		ug/kg	1900	--	10
Dimethyl phthalate	ND		ug/kg	790	--	10
Benzo(a)anthracene	37000		ug/kg	1100	--	10



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04 D
Client ID: COMP-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	31000		ug/kg	1500	--	10
Benzo(b)fluoranthene	39000		ug/kg	1100	--	10
Benzo(k)fluoranthene	12000		ug/kg	1100	--	10
Chrysene	34000		ug/kg	1100	--	10
Acenaphthylene	ND		ug/kg	1500	--	10
Anthracene	16000		ug/kg	1100	--	10
Benzo(ghi)perylene	15000		ug/kg	1500	--	10
Fluorene	7400		ug/kg	1900	--	10
Phenanthrene	57000		ug/kg	1100	--	10
Dibenzo(a,h)anthracene	3900		ug/kg	790	--	10
Indeno(1,2,3-cd)pyrene	18000		ug/kg	1500	--	10
Pyrene	57000		ug/kg	1100	--	10
Aniline	ND		ug/kg	2200	--	10
4-Chloroaniline	ND		ug/kg	1900	--	10
Dibenzofuran	4300		ug/kg	1900	--	10
2-Methylnaphthalene	1400		ug/kg	790	--	10
Acetophenone	ND		ug/kg	1900	--	10
2,4,6-Trichlorophenol	ND		ug/kg	790	--	10
2-Chlorophenol	ND		ug/kg	790	--	10
2,4-Dichlorophenol	ND		ug/kg	790	--	10
2,4-Dimethylphenol	ND		ug/kg	790	--	10
2-Nitrophenol	ND		ug/kg	4000	--	10
4-Nitrophenol	ND		ug/kg	2600	--	10
2,4-Dinitrophenol	ND		ug/kg	9000	--	10
Pentachlorophenol	ND		ug/kg	3700	--	10
Phenol	ND		ug/kg	1900	--	10
2-Methylphenol	ND		ug/kg	1900	--	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2700	--	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	--	10



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04 D
 Client ID: COMP-0506
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Semivolatile Organics - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		30-130
Phenol-d6	50		30-130
Nitrobenzene-d5	56		30-130
2-Fluorobiphenyl	48		30-130
2,4,6-Tribromophenol	37		30-130
4-Terphenyl-d14	54		30-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
Client ID: COMP-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 09/07/21 17:05
Analyst: SZ
Percent Solids: 65%

Extraction Method: EPA 3546
Extraction Date: 09/06/21 17:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	2700		ug/kg	200	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	--	1
Hexachlorobenzene	ND		ug/kg	110	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	110	--	1
2-Chloronaphthalene	ND		ug/kg	260	--	1
1,2-Dichlorobenzene	ND		ug/kg	260	--	1
1,3-Dichlorobenzene	ND		ug/kg	260	--	1
1,4-Dichlorobenzene	ND		ug/kg	110	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	--	1
2,4-Dinitrotoluene	ND		ug/kg	110	--	1
2,6-Dinitrotoluene	ND		ug/kg	260	--	1
Azobenzene	ND		ug/kg	260	--	1
Fluoranthene	4200		ug/kg	150	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	110	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	--	1
Hexachlorobutadiene	ND		ug/kg	260	--	1
Hexachloroethane	ND		ug/kg	110	--	1
Isophorone	ND		ug/kg	230	--	1
Naphthalene	2100		ug/kg	260	--	1
Nitrobenzene	ND		ug/kg	230	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	260	--	1
Butyl benzyl phthalate	ND		ug/kg	260	--	1
Di-n-butylphthalate	ND		ug/kg	260	--	1
Di-n-octylphthalate	ND		ug/kg	260	--	1
Diethyl phthalate	ND		ug/kg	260	--	1
Dimethyl phthalate	ND		ug/kg	110	--	1
Benzo(a)anthracene	2400		ug/kg	150	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
Client ID: COMP-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	1800		ug/kg	200	--	1
Benzo(b)fluoranthene	1900		ug/kg	150	--	1
Benzo(k)fluoranthene	750		ug/kg	150	--	1
Chrysene	1800		ug/kg	150	--	1
Acenaphthylene	ND		ug/kg	200	--	1
Anthracene	1900		ug/kg	150	--	1
Benzo(ghi)perylene	2200		ug/kg	200	--	1
Fluorene	2300		ug/kg	260	--	1
Phenanthrene	2500		ug/kg	150	--	1
Dibenzo(a,h)anthracene	210		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	1600		ug/kg	200	--	1
Pyrene	4700		ug/kg	150	--	1
Aniline	ND		ug/kg	310	--	1
4-Chloroaniline	ND		ug/kg	260	--	1
Dibenzofuran	700		ug/kg	260	--	1
2-Methylnaphthalene	240		ug/kg	110	--	1
Acetophenone	ND		ug/kg	260	--	1
2,4,6-Trichlorophenol	ND		ug/kg	110	--	1
2-Chlorophenol	ND		ug/kg	110	--	1
2,4-Dichlorophenol	ND		ug/kg	110	--	1
2,4-Dimethylphenol	ND		ug/kg	110	--	1
2-Nitrophenol	ND		ug/kg	550	--	1
4-Nitrophenol	ND		ug/kg	360	--	1
2,4-Dinitrophenol	ND		ug/kg	1200	--	1
Pentachlorophenol	ND		ug/kg	510	--	1
Phenol	ND		ug/kg	260	--	1
2-Methylphenol	ND		ug/kg	260	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	370	--	1
2,4,5-Trichlorophenol	ND		ug/kg	260	--	1



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
Client ID: COMP-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Semivolatile Organics - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		30-130
Phenol-d6	73		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	84		30-130
2,4,6-Tribromophenol	86		30-130
4-Terphenyl-d14	93		30-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 09/06/21 15:24
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 09/06/21 03:57

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03-05 Batch: WG1543256-1					
Acenaphthene	ND		ug/kg	130	--
1,2,4-Trichlorobenzene	ND		ug/kg	160	--
Hexachlorobenzene	ND		ug/kg	70	--
Bis(2-chloroethyl)ether	ND		ug/kg	70	--
2-Chloronaphthalene	ND		ug/kg	160	--
1,2-Dichlorobenzene	ND		ug/kg	160	--
1,3-Dichlorobenzene	ND		ug/kg	160	--
1,4-Dichlorobenzene	ND		ug/kg	70	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	70	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Azobenzene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	99	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	70	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachloroethane	ND		ug/kg	70	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	150	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	70	--
Benzo(a)anthracene	ND		ug/kg	99	--
Benzo(a)pyrene	ND		ug/kg	130	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 09/06/21 15:24
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 09/06/21 03:57

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03-05 Batch: WG1543256-1					
Benzo(b)fluoranthene	ND		ug/kg	99	--
Benzo(k)fluoranthene	ND		ug/kg	99	--
Chrysene	ND		ug/kg	99	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	99	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	99	--
Dibenzo(a,h)anthracene	ND		ug/kg	70	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	99	--
Aniline	ND		ug/kg	200	--
4-Chloroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	70	--
Acetophenone	ND		ug/kg	160	--
2,4,6-Trichlorophenol	ND		ug/kg	70	--
2-Chlorophenol	ND		ug/kg	70	--
2,4-Dichlorophenol	ND		ug/kg	70	--
2,4-Dimethylphenol	ND		ug/kg	70	--
2-Nitrophenol	ND		ug/kg	360	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	790	--
Pentachlorophenol	ND		ug/kg	330	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
 Analytical Date: 09/06/21 15:24
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 09/06/21 03:57

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03-05 Batch: WG1543256-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		30-130
Phenol-d6	90		30-130
Nitrobenzene-d5	77		30-130
2-Fluorobiphenyl	77		30-130
2,4,6-Tribromophenol	73		30-130
4-Terphenyl-d14	85		30-130



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 09/07/21 21:30
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 04:13

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1543360-1					
Acenaphthene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Hexachlorobenzene	ND		ug/l	2.0	--
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--
2-Chloronaphthalene	ND		ug/l	2.0	--
1,2-Dichlorobenzene	ND		ug/l	2.0	--
1,3-Dichlorobenzene	ND		ug/l	2.0	--
1,4-Dichlorobenzene	ND		ug/l	2.0	--
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--
2,4-Dinitrotoluene	ND		ug/l	5.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	2.0	--
Fluoranthene	ND		ug/l	2.0	--
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorobutadiene	ND		ug/l	2.0	--
Hexachloroethane	ND		ug/l	2.0	--
Isophorone	ND		ug/l	5.0	--
Naphthalene	ND		ug/l	2.0	--
Nitrobenzene	ND		ug/l	2.0	--
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Benzo(a)anthracene	ND		ug/l	2.0	--
Benzo(a)pyrene	ND		ug/l	2.0	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 09/07/21 21:30
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 04:13

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1543360-1					
Benzo(b)fluoranthene	ND		ug/l	2.0	--
Benzo(k)fluoranthene	ND		ug/l	2.0	--
Chrysene	ND		ug/l	2.0	--
Acenaphthylene	ND		ug/l	2.0	--
Anthracene	ND		ug/l	2.0	--
Benzo(ghi)perylene	ND		ug/l	2.0	--
Fluorene	ND		ug/l	2.0	--
Phenanthrene	ND		ug/l	2.0	--
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--
Pyrene	ND		ug/l	2.0	--
Aniline	ND		ug/l	2.0	--
4-Chloroaniline	ND		ug/l	5.0	--
Dibenzofuran	ND		ug/l	2.0	--
2-Methylnaphthalene	ND		ug/l	2.0	--
Acetophenone	ND		ug/l	5.0	--
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
2-Chlorophenol	ND		ug/l	2.0	--
2,4-Dichlorophenol	ND		ug/l	5.0	--
2,4-Dimethylphenol	ND		ug/l	5.0	--
2-Nitrophenol	ND		ug/l	10	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	20	--
Pentachlorophenol	ND		ug/l	10	--
Phenol	ND		ug/l	5.0	--
2-Methylphenol	ND		ug/l	5.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
 Analytical Date: 09/07/21 21:30
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 09/07/21 04:13

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1543360-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		15-110
Phenol-d6	42		15-110
Nitrobenzene-d5	55		30-130
2-Fluorobiphenyl	54		30-130
2,4,6-Tribromophenol	50		15-110
4-Terphenyl-d14	63		30-130



Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03-05 Batch: WG1543256-2 WG1543256-3								
Acenaphthene	77		65		40-140	17		30
1,2,4-Trichlorobenzene	80		62		40-140	25		30
Hexachlorobenzene	75		65		40-140	14		30
Bis(2-chloroethyl)ether	79		63		40-140	23		30
2-Chloronaphthalene	77		65		40-140	17		30
1,2-Dichlorobenzene	78		62		40-140	23		30
1,3-Dichlorobenzene	79		63		40-140	23		30
1,4-Dichlorobenzene	79		61		40-140	26		30
3,3'-Dichlorobenzidine	63		52		40-140	19		30
2,4-Dinitrotoluene	79		69		40-140	14		30
2,6-Dinitrotoluene	77		68		40-140	12		30
Azobenzene	76		65		40-140	16		30
Fluoranthene	77		67		40-140	14		30
4-Bromophenyl phenyl ether	73		66		40-140	10		30
Bis(2-chloroisopropyl)ether	78		61		40-140	24		30
Bis(2-chloroethoxy)methane	79		64		40-140	21		30
Hexachlorobutadiene	71		60		40-140	17		30
Hexachloroethane	73		58		40-140	23		30
Isophorone	80		64		40-140	22		30
Naphthalene	78		64		40-140	20		30
Nitrobenzene	80		64		40-140	22		30
Bis(2-ethylhexyl)phthalate	71		60		40-140	17		30
Butyl benzyl phthalate	73		63		40-140	15		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03-05 Batch: WG1543256-2 WG1543256-3								
Di-n-butylphthalate	74		64		40-140	14		30
Di-n-octylphthalate	71		60		40-140	17		30
Diethyl phthalate	74		64		40-140	14		30
Dimethyl phthalate	76		66		40-140	14		30
Benzo(a)anthracene	76		66		40-140	14		30
Benzo(a)pyrene	82		70		40-140	16		30
Benzo(b)fluoranthene	78		66		40-140	17		30
Benzo(k)fluoranthene	84		72		40-140	15		30
Chrysene	77		67		40-140	14		30
Acenaphthylene	78		67		40-140	15		30
Anthracene	77		68		40-140	12		30
Benzo(ghi)perylene	81		70		40-140	15		30
Fluorene	78		68		40-140	14		30
Phenanthrene	76		66		40-140	14		30
Dibenzo(a,h)anthracene	81		70		40-140	15		30
Indeno(1,2,3-cd)pyrene	81		70		40-140	15		30
Pyrene	77		67		40-140	14		30
Aniline	75		59		40-140	24		30
4-Chloroaniline	69		60		40-140	14		30
Dibenzofuran	77		66		40-140	15		30
2-Methylnaphthalene	77		65		40-140	17		30
Acetophenone	85		67		40-140	24		30
2,4,6-Trichlorophenol	77		66		30-130	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03-05 Batch: WG1543256-2 WG1543256-3								
2-Chlorophenol	86		68		30-130	23		30
2,4-Dichlorophenol	86		68		30-130	23		30
2,4-Dimethylphenol	84		68		30-130	21		30
2-Nitrophenol	86		67		30-130	25		30
4-Nitrophenol	75		66		30-130	13		30
2,4-Dinitrophenol	53		46		30-130	14		30
Pentachlorophenol	62		54		30-130	14		30
Phenol	93		73		30-130	24		30
2-Methylphenol	88		69		30-130	24		30
3-Methylphenol/4-Methylphenol	86		69		30-130	22		30
2,4,5-Trichlorophenol	75		65		30-130	14		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		64		30-130
Phenol-d6	90		71		30-130
Nitrobenzene-d5	76		61		30-130
2-Fluorobiphenyl	72		60		30-130
2,4,6-Tribromophenol	69		59		30-130
4-Terphenyl-d14	75		64		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1543360-2 WG1543360-3								
Acenaphthene	61		63		40-140	3		20
1,2,4-Trichlorobenzene	65		63		40-140	3		20
Hexachlorobenzene	62		63		40-140	2		20
Bis(2-chloroethyl)ether	66		64		40-140	3		20
2-Chloronaphthalene	65		64		40-140	2		20
1,2-Dichlorobenzene	64		61		40-140	5		20
1,3-Dichlorobenzene	63		61		40-140	3		20
1,4-Dichlorobenzene	62		60		40-140	3		20
3,3'-Dichlorobenzidine	52		52		40-140	0		20
2,4-Dinitrotoluene	58		59		40-140	2		20
2,6-Dinitrotoluene	63		62		40-140	2		20
Azobenzene	58		59		40-140	2		20
Fluoranthene	67		63		40-140	6		20
4-Bromophenyl phenyl ether	63		67		40-140	6		20
Bis(2-chloroisopropyl)ether	68		66		40-140	3		20
Bis(2-chloroethoxy)methane	65		63		40-140	3		20
Hexachlorobutadiene	61		59		40-140	3		20
Hexachloroethane	60		60		40-140	0		20
Isophorone	63		60		40-140	5		20
Naphthalene	65		62		40-140	5		20
Nitrobenzene	64		62		40-140	3		20
Bis(2-ethylhexyl)phthalate	57		58		40-140	2		20
Butyl benzyl phthalate	68		63		40-140	8		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1543360-2 WG1543360-3								
Di-n-butylphthalate	56		54		40-140	4		20
Di-n-octylphthalate	60		64		40-140	6		20
Diethyl phthalate	62		63		40-140	2		20
Dimethyl phthalate	59		57		40-140	3		20
Benzo(a)anthracene	62		64		40-140	3		20
Benzo(a)pyrene	71		71		40-140	0		20
Benzo(b)fluoranthene	68		66		40-140	3		20
Benzo(k)fluoranthene	74		68		40-140	8		20
Chrysene	64		63		40-140	2		20
Acenaphthylene	67		64		40-140	5		20
Anthracene	63		62		40-140	2		20
Benzo(ghi)perylene	66		68		40-140	3		20
Fluorene	64		64		40-140	0		20
Phenanthrene	62		60		40-140	3		20
Dibenzo(a,h)anthracene	65		64		40-140	2		20
Indeno(1,2,3-cd)pyrene	63		64		40-140	2		20
Pyrene	66		64		40-140	3		20
Aniline	31	Q	33	Q	40-140	6		20
4-Chloroaniline	45		43		40-140	5		20
Dibenzofuran	62		63		40-140	2		20
2-Methylnaphthalene	64		62		40-140	3		20
Acetophenone	69		69		40-140	0		20
2,4,6-Trichlorophenol	64		61		30-130	5		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1543360-2 WG1543360-3								
2-Chlorophenol	66		64		30-130	3		20
2,4-Dichlorophenol	66		64		30-130	3		20
2,4-Dimethylphenol	64		63		30-130	2		20
2-Nitrophenol	61		61		30-130	0		20
4-Nitrophenol	54		57		30-130	5		20
2,4-Dinitrophenol	43		44		30-130	2		20
Pentachlorophenol	56		59		30-130	5		20
Phenol	53		54		30-130	2		20
2-Methylphenol	63		62		30-130	2		20
3-Methylphenol/4-Methylphenol	69		68		30-130	1		20
2,4,5-Trichlorophenol	66		63		30-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		55		15-110
Phenol-d6	49		50		15-110
Nitrobenzene-d5	62		61		30-130
2-Fluorobiphenyl	58		59		30-130
2,4,6-Tribromophenol	64		63		15-110
4-Terphenyl-d14	62		60		30-130

PETROLEUM HYDROCARBONS

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
 Client ID: GW-BH-10
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 09/08/21 12:04
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 09/07/21 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH (C10-C36)	313		ug/l	200	--	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	88			40-140		



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02 D
 Client ID: IDW
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8015D(M)
 Analytical Date: 09/13/21 10:41
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 09/07/21 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH (C10-C36)	72900		ug/l	1000	--	5
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	63			40-140		



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03 D
 Client ID: COMP-0203
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 09/10/21 14:43
 Analyst: JB
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 09/06/21 14:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH (C10-C36)	3100000		ug/kg	350000	--	10
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	89			40-140		



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04 D
 Client ID: COMP-0506
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 09/10/21 14:43
 Analyst: JB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 09/06/21 14:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH (C10-C36)	5220000		ug/kg	371000	--	10
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	127			40-140		



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05 D
 Client ID: COMP-1011
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 1,8015D(M)
 Analytical Date: 09/10/21 15:18
 Analyst: JB
 Percent Solids: 65%

Extraction Method: EPA 3546
 Extraction Date: 09/06/21 14:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH (C10-C36)	12100000		ug/kg	997000	--	20
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
o-Terphenyl	155		Q	40-140		



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 09/07/21 21:05
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 09/06/21 05:45

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 03-05 Batch: WG1543266-1					
TPH (C10-C36)	ND		ug/kg	32700	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 09/08/21 09:08
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 20:39

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG1543721-1					
TPH (C10-C36)	ND		ug/l	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140



Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 03-05 Batch: WG1543266-2								
TPH (C10-C36)	78		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	69				40-140

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG1543721-2								
TPH (C10-C36)	92		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	84				40-140

PCBS

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8082A
Analytical Date: 09/09/21 13:10
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 08:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	--	1	A
Aroclor 1221	ND		ug/l	0.250	--	1	A
Aroclor 1232	ND		ug/l	0.250	--	1	A
Aroclor 1242	ND		ug/l	0.250	--	1	A
Aroclor 1248	ND		ug/l	0.250	--	1	A
Aroclor 1254	ND		ug/l	0.250	--	1	A
Aroclor 1260	ND		ug/l	0.250	--	1	A
Aroclor 1262	ND		ug/l	0.250	--	1	A
Aroclor 1268	ND		ug/l	0.250	--	1	A
PCBs, Total	ND		ug/l	0.250	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	96		30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03
Client ID: COMP-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/07/21 21:20
Analyst: JAW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 09/06/21 16:14
Cleanup Method: EPA 3665A
Cleanup Date: 09/06/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	--	1	A
Aroclor 1221	ND		ug/kg	36.8	--	1	A
Aroclor 1232	ND		ug/kg	36.8	--	1	A
Aroclor 1242	ND		ug/kg	36.8	--	1	A
Aroclor 1248	ND		ug/kg	36.8	--	1	A
Aroclor 1254	ND		ug/kg	36.8	--	1	A
Aroclor 1260	ND		ug/kg	36.8	--	1	A
Aroclor 1262	ND		ug/kg	36.8	--	1	A
Aroclor 1268	ND		ug/kg	36.8	--	1	A
PCBs, Total	ND		ug/kg	36.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	62		30-150	A



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04
Client ID: COMP-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/07/21 21:27
Analyst: JAW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 09/06/21 16:14
Cleanup Method: EPA 3665A
Cleanup Date: 09/06/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	--	1	A
Aroclor 1221	ND		ug/kg	37.2	--	1	A
Aroclor 1232	ND		ug/kg	37.2	--	1	A
Aroclor 1242	ND		ug/kg	37.2	--	1	A
Aroclor 1248	ND		ug/kg	37.2	--	1	A
Aroclor 1254	ND		ug/kg	37.2	--	1	A
Aroclor 1260	ND		ug/kg	37.2	--	1	A
Aroclor 1262	ND		ug/kg	37.2	--	1	A
Aroclor 1268	ND		ug/kg	37.2	--	1	A
PCBs, Total	ND		ug/kg	37.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	71		30-150	A



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
Client ID: COMP-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/07/21 21:34
Analyst: JAW
Percent Solids: 65%

Extraction Method: EPA 3546
Extraction Date: 09/06/21 16:14
Cleanup Method: EPA 3665A
Cleanup Date: 09/06/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.8	--	1	A
Aroclor 1221	ND		ug/kg	50.8	--	1	A
Aroclor 1232	ND		ug/kg	50.8	--	1	A
Aroclor 1242	ND		ug/kg	50.8	--	1	A
Aroclor 1248	ND		ug/kg	50.8	--	1	A
Aroclor 1254	ND		ug/kg	50.8	--	1	A
Aroclor 1260	ND		ug/kg	50.8	--	1	A
Aroclor 1262	ND		ug/kg	50.8	--	1	A
Aroclor 1268	ND		ug/kg	50.8	--	1	A
PCBs, Total	ND		ug/kg	50.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	41		30-150	A



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 09/07/21 20:31
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 09/06/21 16:14
Cleanup Method: EPA 3665A
Cleanup Date: 09/06/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 03-05 Batch: WG1543329-1						
Aroclor 1016	ND		ug/kg	32.8	--	A
Aroclor 1221	ND		ug/kg	32.8	--	A
Aroclor 1232	ND		ug/kg	32.8	--	A
Aroclor 1242	ND		ug/kg	32.8	--	A
Aroclor 1248	ND		ug/kg	32.8	--	A
Aroclor 1254	ND		ug/kg	32.8	--	A
Aroclor 1260	ND		ug/kg	32.8	--	A
Aroclor 1262	ND		ug/kg	32.8	--	A
Aroclor 1268	ND		ug/kg	32.8	--	A
PCBs, Total	ND		ug/kg	32.8	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	58		30-150	A



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 09/09/21 12:08
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 08:45
Cleanup Method: EPA 3665A
Cleanup Date: 09/08/21
Cleanup Method: EPA 3660B
Cleanup Date: 09/09/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01 Batch: WG1543434-1						
Aroclor 1016	ND		ug/l	0.250	--	A
Aroclor 1221	ND		ug/l	0.250	--	A
Aroclor 1232	ND		ug/l	0.250	--	A
Aroclor 1242	ND		ug/l	0.250	--	A
Aroclor 1248	ND		ug/l	0.250	--	A
Aroclor 1254	ND		ug/l	0.250	--	A
Aroclor 1260	ND		ug/l	0.250	--	A
Aroclor 1262	ND		ug/l	0.250	--	A
Aroclor 1268	ND		ug/l	0.250	--	A
PCBs, Total	ND		ug/l	0.250	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	97		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 03-05 Batch: WG1543329-2 WG1543329-3									
Aroclor 1016	69		68		40-140	1		30	A
Aroclor 1260	62		60		40-140	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		65		30-150	B
Decachlorobiphenyl	59		59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		65		30-150	A
Decachlorobiphenyl	54		52		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01 Batch: WG1543434-2 WG1543434-3									
Aroclor 1016	75		96		40-140	24	Q	20	A
Aroclor 1260	80		109		40-140	31	Q	20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		84		30-150	A
Decachlorobiphenyl	72		98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		80		30-150	B
Decachlorobiphenyl	86		118		30-150	B

PESTICIDES

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 97,8081B
Analytical Date: 09/08/21 14:44
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 08:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	--	1	A
Lindane	ND		ug/l	0.014	--	1	A
Alpha-BHC	ND		ug/l	0.014	--	1	A
Beta-BHC	ND		ug/l	0.014	--	1	A
Heptachlor	ND		ug/l	0.014	--	1	A
Aldrin	ND		ug/l	0.014	--	1	A
Heptachlor epoxide	ND		ug/l	0.014	--	1	A
Endrin	ND		ug/l	0.029	--	1	A
Endrin ketone	ND		ug/l	0.029	--	1	A
Dieldrin	ND		ug/l	0.029	--	1	A
4,4'-DDE	ND		ug/l	0.029	--	1	A
4,4'-DDD	ND		ug/l	0.029	--	1	A
4,4'-DDT	ND		ug/l	0.029	--	1	A
Endosulfan I	ND		ug/l	0.014	--	1	A
Endosulfan II	ND		ug/l	0.029	--	1	A
Endosulfan sulfate	ND		ug/l	0.029	--	1	A
Methoxychlor	ND		ug/l	0.143	--	1	A
Chlordane	ND		ug/l	0.143	--	1	A
Hexachlorobenzene	ND		ug/l	0.014	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	41		30-150	A



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 97,8151A
Analytical Date: 09/07/21 21:29
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 09/06/21 00:41

Methylation Date: 09/06/21 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/l	100	--	1	A
MCPA	ND		ug/l	100	--	1	A
Dalapon	ND		ug/l	1.0	--	1	A
Dicamba	ND		ug/l	1.0	--	1	A
Dichloroprop	ND		ug/l	1.0	--	1	A
2,4-D	ND		ug/l	1.0	--	1	A
2,4-DB	ND		ug/l	1.0	--	1	A
2,4,5-T	ND		ug/l	1.0	--	1	A
2,4,5-TP (Silvex)	ND		ug/l	1.0	--	1	A
Dinoseb	ND		ug/l	1.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	69		30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03
Client ID: COMP-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 09/07/21 18:09
Analyst: AR
Percent Solids: 89%
Methylation Date: 09/06/21 21:40

Extraction Method: EPA 8151A
Extraction Date: 09/04/21 10:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3700	--	1	A
MCPA	ND		ug/kg	3700	--	1	A
Dalapon	ND		ug/kg	37	--	1	A
Dicamba	ND		ug/kg	37	--	1	A
Dichloroprop	ND		ug/kg	37	--	1	A
2,4-D	ND		ug/kg	37	--	1	A
2,4-DB	ND		ug/kg	37	--	1	A
2,4,5-T	ND		ug/kg	37	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	37	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	83		30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03 D
Client ID: COMP-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 09/11/21 13:23
Analyst: AR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 09/10/21 22:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.65	--	5	A
Lindane	ND		ug/kg	2.88	--	5	A
Alpha-BHC	ND		ug/kg	3.60	--	5	A
Beta-BHC	ND		ug/kg	8.65	--	5	A
Heptachlor	ND		ug/kg	4.32	--	5	A
Aldrin	ND		ug/kg	8.65	--	5	A
Heptachlor epoxide	ND		ug/kg	16.2	--	5	A
Endrin	ND		ug/kg	3.60	--	5	A
Endrin ketone	ND		ug/kg	8.65	--	5	A
Dieldrin	ND		ug/kg	5.40	--	5	A
4,4'-DDE	ND		ug/kg	8.65	--	5	A
4,4'-DDD	ND		ug/kg	8.65	--	5	A
4,4'-DDT	ND		ug/kg	16.2	--	5	A
Endosulfan I	ND		ug/kg	8.65	--	5	A
Endosulfan II	ND		ug/kg	8.65	--	5	A
Endosulfan sulfate	ND		ug/kg	3.60	--	5	A
Methoxychlor	ND		ug/kg	16.2	--	5	A
Chlordane	ND		ug/kg	72.1	--	5	A
Hexachlorobenzene	ND		ug/kg	8.65	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	A
Decachlorobiphenyl	311	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	375	Q	30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04
Client ID: COMP-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 09/07/21 18:27
Analyst: AR
Percent Solids: 87%
Methylation Date: 09/06/21 21:40

Extraction Method: EPA 8151A
Extraction Date: 09/04/21 10:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3800	--	1	A
MCPA	ND		ug/kg	3800	--	1	A
Dalapon	ND		ug/kg	38	--	1	A
Dicamba	ND		ug/kg	38	--	1	A
Dichloroprop	ND		ug/kg	38	--	1	A
2,4-D	ND		ug/kg	38	--	1	A
2,4-DB	ND		ug/kg	38	--	1	A
2,4,5-T	ND		ug/kg	38	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	38	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	78		30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04 D
Client ID: COMP-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 09/11/21 13:34
Analyst: AR
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 09/10/21 22:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	8.67	--	5	A
Lindane	ND		ug/kg	2.89	--	5	A
Alpha-BHC	ND		ug/kg	3.61	--	5	A
Beta-BHC	ND		ug/kg	8.67	--	5	A
Heptachlor	ND		ug/kg	4.34	--	5	A
Aldrin	ND		ug/kg	8.67	--	5	A
Heptachlor epoxide	ND		ug/kg	16.3	--	5	A
Endrin	ND		ug/kg	3.61	--	5	A
Endrin ketone	ND		ug/kg	8.67	--	5	A
Dieldrin	ND		ug/kg	5.42	--	5	A
4,4'-DDE	ND		ug/kg	8.67	--	5	A
4,4'-DDD	ND		ug/kg	8.67	--	5	A
4,4'-DDT	ND		ug/kg	16.3	--	5	A
Endosulfan I	ND		ug/kg	8.67	--	5	A
Endosulfan II	ND		ug/kg	8.67	--	5	A
Endosulfan sulfate	ND		ug/kg	3.61	--	5	A
Methoxychlor	ND		ug/kg	16.3	--	5	A
Chlordane	ND		ug/kg	72.3	--	5	A
Hexachlorobenzene	ND		ug/kg	8.67	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	109		30-150	A
Decachlorobiphenyl	263	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	889	Q	30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
Client ID: COMP-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 09/11/21 13:46
Analyst: AR
Percent Solids: 65%

Extraction Method: EPA 3546
Extraction Date: 09/10/21 22:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	2.44	--	1	B
Lindane	ND		ug/kg	0.813	--	1	B
Alpha-BHC	ND		ug/kg	1.02	--	1	B
Beta-BHC	ND		ug/kg	2.44	--	1	B
Heptachlor	ND		ug/kg	1.22	--	1	B
Aldrin	ND		ug/kg	2.44	--	1	B
Heptachlor epoxide	ND		ug/kg	4.57	--	1	B
Endrin	ND		ug/kg	1.02	--	1	B
Endrin ketone	ND		ug/kg	2.44	--	1	B
Dieldrin	ND		ug/kg	1.52	--	1	B
4,4'-DDE	ND		ug/kg	2.44	--	1	B
4,4'-DDD	ND		ug/kg	2.44	--	1	B
4,4'-DDT	ND		ug/kg	4.57	--	1	B
Endosulfan I	ND		ug/kg	2.44	--	1	B
Endosulfan II	ND		ug/kg	2.44	--	1	B
Endosulfan sulfate	ND		ug/kg	1.02	--	1	B
Methoxychlor	ND		ug/kg	4.57	--	1	B
Chlordane	ND		ug/kg	20.3	--	1	B
Hexachlorobenzene	ND		ug/kg	2.44	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	29	Q	30-150	A
Decachlorobiphenyl	5	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	210	Q	30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
Client ID: COMP-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 09/07/21 18:45
Analyst: AR
Percent Solids: 65%
Methylation Date: 09/06/21 21:40

Extraction Method: EPA 8151A
Extraction Date: 09/04/21 10:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	5000	--	1	A
MCPA	ND		ug/kg	5000	--	1	A
Dalapon	ND		ug/kg	50	--	1	A
Dicamba	ND		ug/kg	50	--	1	A
Dichloroprop	ND		ug/kg	50	--	1	A
2,4-D	ND		ug/kg	50	--	1	A
2,4-DB	ND		ug/kg	50	--	1	A
2,4,5-T	ND		ug/kg	50	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	50	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	80		30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
 Analytical Date: 09/04/21 20:21
 Analyst: AR

Extraction Method: EPA 8151A
 Extraction Date: 09/04/21 06:46

Methylation Date: 09/04/21 16:50

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 03-05 Batch: WG1543070-1						
MCPP	ND		ug/kg	3300	--	A
MCPA	ND		ug/kg	3300	--	A
Dalapon	ND		ug/kg	33	--	A
Dicamba	ND		ug/kg	33	--	A
Dichloroprop	ND		ug/kg	33	--	A
2,4-D	ND		ug/kg	33	--	A
2,4-DB	ND		ug/kg	33	--	A
2,4,5-T	ND		ug/kg	33	--	A
2,4,5-TP (Silvex)	ND		ug/kg	33	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	61		30-150	A
DCAA	56		30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 09/07/21 20:34
Analyst: AR

Extraction Method: EPA 8151A
Extraction Date: 09/06/21 00:35

Methylation Date: 09/06/21 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01 Batch: WG1543246-1						
MCP	ND		ug/l	100	--	A
MCPA	ND		ug/l	100	--	A
Dalapon	ND		ug/l	1.0	--	A
Dicamba	ND		ug/l	1.0	--	A
Dichloroprop	ND		ug/l	1.0	--	A
2,4-D	ND		ug/l	1.0	--	A
2,4-DB	ND		ug/l	1.0	--	A
2,4,5-T	ND		ug/l	1.0	--	A
2,4,5-TP (Silvex)	ND		ug/l	1.0	--	A
Dinoseb	ND		ug/l	1.0	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	74		30-150	B



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 09/08/21 14:11
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 09/07/21 08:54

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01 Batch: WG1543438-1						
Delta-BHC	ND		ug/l	0.014	--	A
Lindane	ND		ug/l	0.014	--	A
Alpha-BHC	ND		ug/l	0.014	--	A
Beta-BHC	ND		ug/l	0.014	--	A
Heptachlor	ND		ug/l	0.014	--	A
Aldrin	ND		ug/l	0.014	--	A
Heptachlor epoxide	ND		ug/l	0.014	--	A
Endrin	ND		ug/l	0.029	--	A
Endrin ketone	ND		ug/l	0.029	--	A
Dieldrin	ND		ug/l	0.029	--	A
4,4'-DDE	ND		ug/l	0.029	--	A
4,4'-DDD	ND		ug/l	0.029	--	A
4,4'-DDT	ND		ug/l	0.029	--	A
Endosulfan I	ND		ug/l	0.014	--	A
Endosulfan II	ND		ug/l	0.029	--	A
Endosulfan sulfate	ND		ug/l	0.029	--	A
Methoxychlor	ND		ug/l	0.143	--	A
Chlordane	ND		ug/l	0.143	--	A
Hexachlorobenzene	ND		ug/l	0.014	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	49		30-150	A



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 09/11/21 12:50
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 09/10/21 22:19
Cleanup Method: EPA 3620B
Cleanup Date: 09/11/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 03-05 Batch: WG1545187-1						
Delta-BHC	ND		ug/kg	1.59	--	A
Lindane	ND		ug/kg	0.529	--	A
Alpha-BHC	ND		ug/kg	0.661	--	A
Beta-BHC	ND		ug/kg	1.59	--	A
Heptachlor	ND		ug/kg	0.794	--	A
Aldrin	ND		ug/kg	1.59	--	A
Heptachlor epoxide	ND		ug/kg	2.98	--	A
Endrin	ND		ug/kg	0.661	--	A
Endrin ketone	ND		ug/kg	1.59	--	A
Dieldrin	ND		ug/kg	0.992	--	A
4,4'-DDE	ND		ug/kg	1.59	--	A
4,4'-DDD	ND		ug/kg	1.59	--	A
4,4'-DDT	ND		ug/kg	2.98	--	A
Endosulfan I	ND		ug/kg	1.59	--	A
Endosulfan II	ND		ug/kg	1.59	--	A
Endosulfan sulfate	ND		ug/kg	0.661	--	A
Methoxychlor	ND		ug/kg	2.98	--	A
Chlordane	ND		ug/kg	13.2	--	A
Hexachlorobenzene	ND		ug/kg	1.59	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	78		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 03-05 Batch: WG1543070-2 WG1543070-3									
MCP	66		65		40-140	2		30	A
MCPA	60		56		40-140	7		30	A
Dalapon	62		65		40-140	5		30	A
Dicamba	61		58		40-140	5		30	A
Dichloroprop	67		59		40-140	13		30	A
2,4-D	61		54		40-140	12		30	A
2,4-DB	49		45		40-140	9		30	A
2,4,5-T	56		53		40-140	6		30	A
2,4,5-TP (Silvex)	59		55		40-140	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	64		60		30-150	A
DCAA	58		55		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01 Batch: WG1543246-2 WG1543246-3									
MCP	99		87		40-140	13		20	A
MCPA	80		70		40-140	13		20	A
Dalapon	82		81		40-140	1		20	A
Dicamba	84		74		40-140	13		20	A
Dichloroprop	91		86		40-140	6		20	A
2,4-D	83		73		40-140	13		20	A
2,4-DB	79		71		40-140	11		20	A
2,4,5-T	83		73		40-140	13		20	A
2,4,5-TP (Silvex)	83		74		40-140	11		20	A
Dinoseb	61		52		40-140	16		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	93		81		30-150	A
DCAA	105		102		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1543438-2 WG1543438-3									
Delta-BHC	63		57		40-140	11		30	A
Lindane	64		59		40-140	9		30	A
Alpha-BHC	66		59		40-140	11		30	A
Beta-BHC	62		56		40-140	10		30	A
Heptachlor	63		55		40-140	13		30	A
Aldrin	61		54		40-140	13		30	A
Heptachlor epoxide	61		53		40-140	14		30	A
Endrin	62		54		40-140	14		30	A
Endrin ketone	63		55		40-140	14		30	A
Dieldrin	64		56		40-140	13		30	A
4,4'-DDE	63		54		40-140	16		30	A
4,4'-DDD	70		60		40-140	16		30	A
4,4'-DDT	68		60		40-140	12		30	A
Endosulfan I	60		51		40-140	16		30	A
Endosulfan II	64		55		40-140	14		30	A
Endosulfan sulfate	62		54		40-140	14		30	A
Methoxychlor	65		56		40-140	15		30	A
Hexachlorobenzene	59		56		40-140	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1543438-2 WG1543438-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		56		30-150	B
Decachlorobiphenyl	64		52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		54		30-150	A
Decachlorobiphenyl	53		45		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 03-05 Batch: WG1545187-2 WG1545187-3									
Delta-BHC	71		76		40-140	7		30	A
Lindane	70		75		40-140	7		30	A
Alpha-BHC	62		67		40-140	8		30	A
Beta-BHC	72		75		40-140	4		30	A
Heptachlor	78		86		40-140	10		30	A
Aldrin	72		75		40-140	4		30	A
Heptachlor epoxide	66		70		40-140	6		30	A
Endrin	78		85		40-140	9		30	A
Endrin ketone	69		76		40-140	10		30	A
Dieldrin	79		86		40-140	8		30	A
4,4'-DDE	70		76		40-140	8		30	A
4,4'-DDD	83		91		40-140	9		30	A
4,4'-DDT	83		90		40-140	8		30	A
Endosulfan I	67		73		40-140	9		30	A
Endosulfan II	78		84		40-140	7		30	A
Endosulfan sulfate	69		71		40-140	3		30	A
Methoxychlor	83		85		40-140	2		30	A
Hexachlorobenzene	61		64		40-140	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 03-05 Batch: WG1545187-2 WG1545187-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		74		30-150	A
Decachlorobiphenyl	94		100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		69		30-150	B
Decachlorobiphenyl	78		84		30-150	B

METALS



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
 Client ID: GW-BH-10
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.050	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Arsenic, Total	0.0109		mg/l	0.0050	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Barium, Total	0.110		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Beryllium, Total	ND		mg/l	0.005	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Cadmium, Total	ND		mg/l	0.004	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Chromium, Total	0.013		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Lead, Total	0.530		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Mercury, Total	0.0005		mg/l	0.0002	--	1	09/09/21 09:01	09/09/21 18:16	EPA 7470A	97,7470A	OU
Nickel, Total	ND		mg/l	0.025	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Selenium, Total	ND		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Silver, Total	ND		mg/l	0.007	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Sulfur, Total	13.1		mg/l	2.50	--	10	09/09/21 08:15	09/09/21 10:24	EPA 3005A	97,6010D	SV
Thallium, Total	ND		mg/l	0.020	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Vanadium, Total	0.019		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP
Zinc, Total	0.319		mg/l	0.050	--	1	09/09/21 08:32	09/21/21 10:31	EPA 3005A	97,6010D	MP



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02
 Client ID: IDW
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	0.0274		mg/l	0.0050	--	1	09/09/21 09:00	09/17/21 12:47	EPA 3005A	97,6010D	JC
Barium, Total	0.520		mg/l	0.010	--	1	09/09/21 09:00	09/17/21 12:47	EPA 3005A	97,6010D	JC
Cadmium, Total	ND		mg/l	0.004	--	1	09/09/21 09:00	09/17/21 12:47	EPA 3005A	97,6010D	JC
Chromium, Total	0.082		mg/l	0.010	--	1	09/09/21 09:00	09/17/21 12:47	EPA 3005A	97,6010D	JC
Lead, Total	3.97		mg/l	0.010	--	1	09/09/21 09:00	09/17/21 12:47	EPA 3005A	97,6010D	JC
Mercury, Total	0.0043		mg/l	0.0010	--	1	09/09/21 11:35	09/10/21 12:50	EPA 7470A	97,7470A	NB
Selenium, Total	ND		mg/l	0.010	--	1	09/09/21 09:00	09/17/21 12:47	EPA 3005A	97,6010D	JC
Silver, Total	ND		mg/l	0.007	--	1	09/09/21 09:00	09/17/21 12:47	EPA 3005A	97,6010D	JC



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03
 Client ID: COMP-0203
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	2.22	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Arsenic, Total	6.90		mg/kg	0.444	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Barium, Total	43.2		mg/kg	0.444	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Beryllium, Total	0.244		mg/kg	0.222	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Cadmium, Total	ND		mg/kg	0.444	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Chromium, Total	7.88		mg/kg	0.444	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Lead, Total	206		mg/kg	2.22	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Mercury, Total	0.808		mg/kg	0.083	--	1	09/14/21 14:28	09/15/21 09:29	EPA 7471B	97,7471B	OU
Nickel, Total	25.9		mg/kg	1.11	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Selenium, Total	ND		mg/kg	2.22	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Silver, Total	ND		mg/kg	0.444	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Sulfur, Total	1630		mg/kg	43.9	--	1	09/14/21 11:38	09/17/21 07:43	EPA 3051A	97,6010D	SV
Thallium, Total	ND		mg/kg	2.22	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Vanadium, Total	93.6		mg/kg	0.444	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL
Zinc, Total	108		mg/kg	2.22	--	1	09/15/21 16:45	09/16/21 22:32	EPA 3050B	97,6010D	DL



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04
 Client ID: COMP-0506
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	2.24	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Arsenic, Total	3.83		mg/kg	0.448	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Barium, Total	41.4		mg/kg	0.448	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Beryllium, Total	0.291		mg/kg	0.224	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Cadmium, Total	ND		mg/kg	0.448	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Chromium, Total	8.31		mg/kg	0.448	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Lead, Total	221		mg/kg	2.24	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Mercury, Total	0.806		mg/kg	0.084	--	1	09/14/21 14:28	09/15/21 09:32	EPA 7471B	97,7471B	OU
Nickel, Total	8.25		mg/kg	1.12	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Selenium, Total	ND		mg/kg	2.24	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Silver, Total	ND		mg/kg	0.448	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Sulfur, Total	907		mg/kg	41.9	--	1	09/14/21 11:38	09/17/21 07:47	EPA 3051A	97,6010D	SV
Thallium, Total	ND		mg/kg	2.24	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Vanadium, Total	12.8		mg/kg	0.448	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL
Zinc, Total	333		mg/kg	2.24	--	1	09/15/21 16:45	09/16/21 23:26	EPA 3050B	97,6010D	DL



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
 Client ID: COMP-1011
 Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
 Date Received: 09/03/21
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 65%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	3.03		mg/kg	2.95	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Arsenic, Total	22.3		mg/kg	0.590	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Barium, Total	205		mg/kg	0.590	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Beryllium, Total	0.419		mg/kg	0.295	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Cadmium, Total	ND		mg/kg	0.590	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Chromium, Total	18.8		mg/kg	0.590	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Lead, Total	853		mg/kg	2.95	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Mercury, Total	5.18		mg/kg	0.235	--	2	09/14/21 14:28	09/15/21 09:48	EPA 7471B	97,7471B	OU
Nickel, Total	18.8		mg/kg	1.47	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Selenium, Total	ND		mg/kg	2.95	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Silver, Total	1.09		mg/kg	0.590	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Sulfur, Total	6590		mg/kg	58.5	--	1	09/14/21 11:38	09/17/21 07:50	EPA 3051A	97,6010D	SV
Thallium, Total	ND		mg/kg	2.95	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Vanadium, Total	27.2		mg/kg	0.590	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL
Zinc, Total	450		mg/kg	2.95	--	1	09/15/21 16:45	09/16/21 23:31	EPA 3050B	97,6010D	DL



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1543667-1										
Sulfur, Total	ND		mg/l	0.250	--	1	09/09/21 08:15	09/09/21 10:14	97,6010D	SV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1543790-1										
Antimony, Total	ND		mg/l	0.050	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Arsenic, Total	ND		mg/l	0.0050	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Barium, Total	ND		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Beryllium, Total	ND		mg/l	0.005	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Cadmium, Total	ND		mg/l	0.004	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Chromium, Total	ND		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Lead, Total	ND		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Nickel, Total	ND		mg/l	0.025	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Selenium, Total	ND		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Silver, Total	ND		mg/l	0.007	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Thallium, Total	ND		mg/l	0.020	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Vanadium, Total	ND		mg/l	0.010	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP
Zinc, Total	ND		mg/l	0.050	--	1	09/09/21 08:32	09/21/21 10:12	97,6010D	MP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1543791-1										
Mercury, Total	ND		mg/l	0.0002	--	1	09/09/21 09:01	09/09/21 18:07	97,7470A	OU



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1543796-1										
Arsenic, Total	ND		mg/l	0.0050	--	1	09/09/21 09:00	09/17/21 11:17	97,6010D	JC
Barium, Total	ND		mg/l	0.010	--	1	09/09/21 09:00	09/17/21 11:17	97,6010D	JC
Cadmium, Total	ND		mg/l	0.004	--	1	09/09/21 09:00	09/17/21 11:17	97,6010D	JC
Chromium, Total	ND		mg/l	0.010	--	1	09/09/21 09:00	09/17/21 11:17	97,6010D	JC
Lead, Total	ND		mg/l	0.010	--	1	09/09/21 09:00	09/17/21 11:17	97,6010D	JC
Selenium, Total	ND		mg/l	0.010	--	1	09/09/21 09:00	09/17/21 11:17	97,6010D	JC
Silver, Total	ND		mg/l	0.007	--	1	09/09/21 09:00	09/17/21 11:17	97,6010D	JC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1543798-1										
Mercury, Total	ND		mg/l	0.0002	--	1	09/09/21 11:35	09/10/21 11:41	97,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 03-05 Batch: WG1546083-1										
Mercury, Total	ND		mg/kg	0.083	--	1	09/14/21 14:28	09/15/21 09:19	97,7471B	OU



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 03-05 Batch: WG1546087-1									
Sulfur, Total	ND	mg/kg	41.7	--	1	09/14/21 11:38	09/17/21 07:23	97,6010D	SV

Prep Information

Digestion Method: EPA 3051A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 03-05 Batch: WG1546763-1									
Antimony, Total	ND	mg/kg	2.00	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Arsenic, Total	ND	mg/kg	0.400	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Barium, Total	ND	mg/kg	0.400	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Beryllium, Total	ND	mg/kg	0.200	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Cadmium, Total	ND	mg/kg	0.400	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Chromium, Total	ND	mg/kg	0.400	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Lead, Total	ND	mg/kg	2.00	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Nickel, Total	ND	mg/kg	1.00	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Selenium, Total	ND	mg/kg	2.00	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Silver, Total	ND	mg/kg	0.400	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Thallium, Total	ND	mg/kg	2.00	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Vanadium, Total	ND	mg/kg	0.400	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL
Zinc, Total	ND	mg/kg	2.00	--	1	09/15/21 16:45	09/16/21 21:05	97,6010D	DL

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1543667-2 WG1543667-3								
Sulfur, Total	110		107		80-120	3		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1543790-2 WG1543790-3								
Antimony, Total	102		106		80-120	4		20
Arsenic, Total	99		100		80-120	1		20
Barium, Total	104		108		80-120	4		20
Beryllium, Total	100		104		80-120	4		20
Cadmium, Total	98		101		80-120	3		20
Chromium, Total	98		102		80-120	4		20
Lead, Total	100		100		80-120	0		20
Nickel, Total	94		97		80-120	3		20
Selenium, Total	102		101		80-120	1		20
Silver, Total	103		106		80-120	3		20
Thallium, Total	97		97		80-120	0		20
Vanadium, Total	99		103		80-120	4		20
Zinc, Total	107		110		80-120	3		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1543791-2 WG1543791-3								
Mercury, Total	101		101		80-120	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1543796-2 WG1543796-3					
Arsenic, Total	98	99	80-120	1	20
Barium, Total	98	98	80-120	0	20
Cadmium, Total	99	98	80-120	1	20
Chromium, Total	99	98	80-120	1	20
Lead, Total	97	96	80-120	1	20
Selenium, Total	97	98	80-120	1	20
Silver, Total	94	92	80-120	2	20
MCP Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1543798-2 WG1543798-3					
Mercury, Total	99	99	80-120	0	20
MCP Total Metals - Mansfield Lab Associated sample(s): 03-05 Batch: WG1546083-2 WG1546083-3 SRM Lot Number: D109-540					
Mercury, Total	111	107	60-140	4	30
MCP Total Metals - Mansfield Lab Associated sample(s): 03-05 Batch: WG1546087-2 WG1546087-3					
Sulfur, Total	107	106	80-120	1	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 03-05 Batch: WG1546763-2 WG1546763-3 SRM Lot Number: D109-540					
Antimony, Total	160	146	19-250	9	30
Arsenic, Total	96	86	70-130	11	30
Barium, Total	87	81	75-125	7	30
Beryllium, Total	90	80	75-125	12	30
Cadmium, Total	92	80	75-125	14	30
Chromium, Total	91	80	70-130	13	30
Lead, Total	99	82	72-128	19	30
Nickel, Total	89	80	70-130	11	30
Selenium, Total	96	86	68-132	11	30
Silver, Total	92	86	68-131	7	30
Thallium, Total	89	82	68-131	8	30
Vanadium, Total	88	81	59-141	8	30
Zinc, Total	90	82	70-130	9	30

INORGANICS & MISCELLANEOUS



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03
Client ID: COMP-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/09/21 18:05	1,1030	MD



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04
Client ID: COMP-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/09/21 18:05	1,1030	MD



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
Client ID: COMP-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/09/21 18:05	1,1030	MD



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-01
Client ID: GW-BH-10
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 09:30
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Cyanide, Total	0.183		mg/l	0.005	--	1	09/10/21 11:25	09/10/21 14:18	97,9014	CR
General Chemistry - Westborough Lab										
pH (H)	6.4		SU	-	NA	1	-	09/04/21 08:30	1,9040C	KA
Sulfide	ND		mg/l	0.10	--	1	09/08/21 20:15	09/08/21 23:36	1,9030B	EN
Sulfate	37.		mg/l	10	--	1	09/09/21 13:32	09/09/21 13:32	1,9038	JB
Total Organic Carbon	4.7		mg/l	2.0	--	4	-	09/13/21 20:17	1,9060A	WF
Flash Point	>150		deg F	70	NA	1	-	09/10/21 15:30	1,1010A	AC
Cyanide, Reactive	ND		mg/l	1.0	--	1	09/09/21 17:45	09/09/21 20:31	125,7.3	TL
Sulfide, Reactive	ND		mg/l	1.0	--	1	09/09/21 17:45	09/09/21 20:29	125,7.3	TL



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-02
Client ID: IDW
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 13:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	8.9		SU	-	NA	1	-	09/04/21 08:30	1,9040C	KA



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-03
Client ID: COMP-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	20.4		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
Total Organic Carbon (Rep2)	22.2		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
Total Organic Carbon (Average)	21.3		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
MCP General Chemistry - Westborough Lab										
Cyanide, Total	3.3		mg/kg	1.1	--	1	09/13/21 12:50	09/13/21 15:26	97,9014	CR
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	58		umhos/cm	10	--	1	-	09/10/21 17:43	1,9050A	AS
Solids, Total	89.3		%	0.100	NA	1	-	09/04/21 11:02	121,2540G	RI
pH (H)	8.0		SU	-	NA	1	-	09/09/21 20:17	1,9045D	AS
Sulfide	ND		mg/kg	0.56	--	1	09/08/21 16:40	09/08/21 23:20	1,9030B	EN
Sulfate	ND		mg/kg	110	--	1	-	09/08/21 16:52	1,9038	JB
Cyanide, Reactive	ND		mg/kg	10	--	1	09/14/21 18:50	09/14/21 21:27	125,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	09/14/21 18:50	09/14/21 21:18	125,7.3	TL
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	09/08/21 18:40	1,9095B	AS



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-04
Client ID: COMP-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 14:50
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	27.0		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
Total Organic Carbon (Rep2)	21.5		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
Total Organic Carbon (Average)	24.2		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
MCP General Chemistry - Westborough Lab										
Cyanide, Total	1.3		mg/kg	1.0	--	1	09/13/21 12:50	09/13/21 15:27	97,9014	CR
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	91		umhos/cm	10	--	1	-	09/10/21 17:43	1,9050A	AS
Solids, Total	87.4		%	0.100	NA	1	-	09/04/21 11:02	121,2540G	RI
pH (H)	7.7		SU	-	NA	1	-	09/09/21 20:17	1,9045D	AS
Sulfide	16		mg/kg	0.57	--	1	09/08/21 16:40	09/08/21 23:21	1,9030B	EN
Sulfate	ND		mg/kg	110	--	1	-	09/08/21 16:52	1,9038	JB
Cyanide, Reactive	ND		mg/kg	10	--	1	09/09/21 20:55	09/09/21 22:33	125,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	--	1	09/09/21 20:55	09/09/21 22:07	125,7.3	TL
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	09/08/21 18:40	1,9095B	AS



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-05
Client ID: COMP-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 15:00
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	9.83		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
Total Organic Carbon (Rep2)	10.0		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
Total Organic Carbon (Average)	9.94		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
MCP General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/kg	1.5	--	1	09/13/21 12:50	09/13/21 15:28	97,9014	CR
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	220		umhos/cm	10	--	1	-	09/10/21 17:43	1,9050A	AS
Solids, Total	64.9		%	0.100	NA	1	-	09/04/21 11:02	121,2540G	RI
pH (H)	7.0		SU	-	NA	1	-	09/09/21 20:17	1,9045D	AS
Sulfide	200		mg/kg	7.7	--	10	09/08/21 16:40	09/08/21 23:22	1,9030B	EN
Sulfate	250		mg/kg	150	--	1	-	09/08/21 16:52	1,9038	JB
Cyanide, Reactive	ND		mg/kg	10	--	1	09/09/21 20:55	09/09/21 22:34	125,7.3	TL
Sulfide, Reactive	33		mg/kg	10	--	1	09/09/21 20:55	09/09/21 22:08	125,7.3	TL
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	09/08/21 18:40	1,9095B	AS



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-06
Client ID: BH-11-0203
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 11:20
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	09/04/21 11:02	121,2540G	RI



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-07
Client ID: BH-11-0506
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 11:25
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	09/04/21 11:02	121,2540G	RI



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

SAMPLE RESULTS

Lab ID: L2147704-08
Client ID: BH-11-1011
Sample Location: CAMBRIDGE

Date Collected: 09/03/21 12:40
Date Received: 09/03/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	64.9		%	0.100	NA	1	-	09/04/21 11:02	121,2540G	RI



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

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): 03-05 Batch: WG1544038-1										
Sulfate	ND		mg/kg	100	--	1	-	09/08/21 16:52	1,9038	JB
General Chemistry - Westborough Lab for sample(s): 03-05 Batch: WG1544122-1										
Sulfide	ND		mg/kg	0.50	--	1	09/08/21 16:40	09/08/21 23:19	1,9030B	EN
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1544127-1										
Sulfide	ND		mg/l	0.10	--	1	09/08/21 20:15	09/08/21 23:31	1,9030B	EN
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1544469-1										
Sulfate	ND		mg/l	10	--	1	09/09/21 13:32	09/09/21 13:32	1,9038	JB
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1544642-1										
Sulfide, Reactive	ND		mg/l	1.0	--	1	09/09/21 17:45	09/09/21 20:28	125,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1544644-1										
Cyanide, Reactive	ND		mg/l	1.0	--	1	09/09/21 17:45	09/09/21 20:31	125,7.3	TL
General Chemistry - Westborough Lab for sample(s): 04-05 Batch: WG1544645-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	09/09/21 20:55	09/09/21 22:03	125,7.3	TL
General Chemistry - Westborough Lab for sample(s): 04-05 Batch: WG1544649-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	09/09/21 20:55	09/09/21 22:31	125,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1544856-1										
Total Organic Carbon	ND		mg/l	0.50	--	1	-	09/13/21 10:07	1,9060A	WF
MCP General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1544959-1										
Cyanide, Total	ND		mg/l	0.005	--	1	09/10/21 11:25	09/10/21 14:09	97,9014	CR
Total Organic Carbon - Mansfield Lab for sample(s): 03-05 Batch: WG1545054-1										
Total Organic Carbon (Rep1)	ND		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
Total Organic Carbon (Rep2)	ND		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
Total Organic Carbon (Average)	ND		%	0.010	--	1	-	09/14/21 10:11	1,9060A	SP
MCP General Chemistry - Westborough Lab for sample(s): 03-05 Batch: WG1545654-1										
Cyanide, Total	ND		mg/kg	0.97	--	1	09/13/21 12:50	09/13/21 15:22	97,9014	CR
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1546320-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	09/14/21 18:50	09/14/21 21:18	125,7.3	TL
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1546329-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	09/14/21 18:50	09/14/21 21:26	125,7.3	TL



Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1543034-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 03-05 Batch: WG1544038-2								
Sulfate	95		-		80-121	-		12
General Chemistry - Westborough Lab Associated sample(s): 03-05 Batch: WG1544122-2								
Sulfide	88		-		75-125	-		25
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1544127-2								
Sulfide	77		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1544469-2								
Sulfate	105		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1544642-2								
Sulfide, Reactive	108		-		60-125	-		25
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1544644-2								
Cyanide, Reactive	75		-		30-125	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04-05 Batch: WG1544645-2					
Sulfide, Reactive	107	-	60-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 04-05 Batch: WG1544649-2					
Cyanide, Reactive	93	-	30-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 03-05 Batch: WG1544676-1					
pH	101	-	99-101	-	
General Chemistry - Westborough Lab Associated sample(s): 03-05 Batch: WG1544725-1					
Specific Conductance	101	-	99-101	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1544856-2					
Total Organic Carbon	98	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1544925-1					
Flash Point	100	-	96-104	-	
MCP General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1544959-2 WG1544959-3					
Cyanide, Total	95	93	80-120	2	20

Lab Control Sample Analysis Batch Quality Control

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 03-05 Batch: WG1545054-2					
Total Organic Carbon (Rep1)	101	-	75-125	-	25
Total Organic Carbon (Rep2)	100	-	75-125	-	25
Total Organic Carbon (Average)	101	-	75-125	-	25
MCP General Chemistry - Westborough Lab Associated sample(s): 03-05 Batch: WG1545654-2 WG1545654-3					
Cyanide, Total	59	66	38-161	18	35
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1546320-2					
Sulfide, Reactive	78	-	60-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1546329-2					
Cyanide, Reactive	100	-	30-125	-	40

Matrix Spike Analysis **Batch Quality Control**

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

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): 03-05 QC Batch ID: WG1544038-4 QC Sample: L2147704-05 Client ID: COMP-1011												
Sulfate	250	607	670	69		-	-		22-183	-		12
General Chemistry - Westborough Lab Associated sample(s): 03-05 QC Batch ID: WG1544122-4 QC Sample: L2147704-03 Client ID: COMP-0203												
Sulfide	ND	14.6	3.2	22	Q	-	-		70-130	-		25
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1544856-4 QC Sample: L2147704-01 Client ID: GW-BH-10												
Total Organic Carbon	4.7	32	37	101		-	-		80-120	-		20
Total Organic Carbon - Mansfield Lab Associated sample(s): 03-05 QC Batch ID: WG1545054-4 QC Sample: L2147704-03 Client ID: COMP-0203												
Total Organic Carbon (Rep1)	20.4	0.812	18.8	0	Q	-	-		75-125	-		25
Total Organic Carbon (Rep2)	22.2	0.895	21.1	0	Q	-	-		75-125	-		25

Lab Duplicate Analysis *Batch Quality Control*

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-05 QC Batch ID: WG1544038-3 QC Sample: L2147704-05 Client ID: COMP-1011						
Sulfate	250	260	mg/kg	4		12
General Chemistry - Westborough Lab Associated sample(s): 03-05 QC Batch ID: WG1544122-3 QC Sample: L2147704-03 Client ID: COMP-0203						
Sulfide	ND	ND	mg/kg	NC		25
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1544642-3 QC Sample: L2147704-01 Client ID: GW-BH-10						
Sulfide, Reactive	ND	ND	mg/l	NC		25
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1544644-3 QC Sample: L2147704-01 Client ID: GW-BH-10						
Cyanide, Reactive	ND	ND	mg/l	NC		25
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1544856-3 QC Sample: L2147704-01 Client ID: GW-BH-10						
Total Organic Carbon	4.7	4.7	mg/l	0		20
Total Organic Carbon - Mansfield Lab Associated sample(s): 03-05 QC Batch ID: WG1545054-3 QC Sample: L2147704-03 Client ID: COMP-0203						
Total Organic Carbon (Rep1)	20.4	20.9	%	2		25
Total Organic Carbon (Rep2)	22.2	21.5	%	3		25
Total Organic Carbon (Average)	21.3	21.2	%	0		25



Project Name: KCP**Lab Number:** L2147704**Project Number:** 112C08712**Report Date:** 09/21/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2147704-01A	Vial HCl preserved	A	NA		4.6	Y	Absent		MCP-8260-10(14)
L2147704-01B	Vial HCl preserved	A	NA		4.6	Y	Absent		MCP-8260-10(14)
L2147704-01C	Vial HCl preserved	A	NA		4.6	Y	Absent		MCP-8260-10(14)
L2147704-01D	Vial H2SO4 preserved	A	NA		4.6	Y	Absent		TOC-9060(28)
L2147704-01E	Vial H2SO4 preserved	A	NA		4.6	Y	Absent		TOC-9060(28)
L2147704-01F	Vial H2SO4 preserved	A	NA		4.6	Y	Absent		TOC-9060(28)
L2147704-01G	Plastic 60ml unpreserved	A	7	7	4.6	Y	Absent		PH-9040(1),SO4-9038(28)
L2147704-01H	Amber 120ml unpreserved	A	7	7	4.6	Y	Absent		MCP-8082-10-LVI(365)
L2147704-01I	Amber 120ml unpreserved	A	7	7	4.6	Y	Absent		MCP-8082-10-LVI(365)
L2147704-01J	Amber 120ml unpreserved	A	7	7	4.6	Y	Absent		MCP-8081-10(7)
L2147704-01K	Amber 120ml unpreserved	A	7	7	4.6	Y	Absent		MCP-8081-10(7)
L2147704-01L	Plastic 250ml HNO3 preserved	A	<2	<2	4.6	Y	Absent		MCP-CR-6010T-10(180),MCP-7470T-10(28),MCP-AS-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-S-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-V-6010T-10(180),MCP-BA-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2147704-01M	Plastic 250ml NaOH preserved	A	>12	>12	4.6	Y	Absent		MCP-TCN9014-10(14)
L2147704-01N	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		MCP-8270-10-LVI(7)
L2147704-01O	Amber 250ml unpreserved	A	7	7	4.6	Y	Absent		MCP-8270-10-LVI(7)
L2147704-01P	Amber 500ml unpreserved	A	7	7	4.6	Y	Absent		REACTS(7),REACTCN(7),FLASH()
L2147704-01Q	Amber 500ml unpreserved	A	7	7	4.6	Y	Absent		TPH-DRO-D(7)
L2147704-01R	Amber 500ml unpreserved	A	7	7	4.6	Y	Absent		TPH-DRO-D(7)

Project Name: KCP
Project Number: 112C08712

Serial_No: 09212116:54
Lab Number: L2147704
Report Date: 09/21/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2147704-01S	Amber 1000ml unpreserved	A	7	7	4.6	Y	Absent		MCP-8151-10(7)
L2147704-01T	Amber 1000ml unpreserved	A	7	7	4.6	Y	Absent		MCP-8151-10(7)
L2147704-01U	Plastic 250ml Zn Ac/NaOH preserved split	A	>9	>9	4.6	Y	Absent		SULFIDE-9030(7)
L2147704-02A	Vial HCl preserved	B	NA		4.3	Y	Absent		MCP-8260-10(14)
L2147704-02B	Vial HCl preserved	B	NA		4.3	Y	Absent		MCP-8260-10(14)
L2147704-02C	Vial HCl preserved	B	NA		4.3	Y	Absent		MCP-8260-10(14)
L2147704-02D	Plastic 60ml unpreserved	B	7	7	4.3	Y	Absent		PH-9040(1)
L2147704-02E	Plastic 250ml HNO3 preserved	B	<2	<2	4.3	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7470T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L2147704-02F	Amber 250ml unpreserved	B	7	7	4.3	Y	Absent		MCP-8270-10-LVI(7)
L2147704-02G	Amber 250ml unpreserved	B	7	7	4.3	Y	Absent		MCP-8270-10-LVI(7)
L2147704-02H	Amber 500ml unpreserved	B	7	7	4.3	Y	Absent		TPH-DRO-D(7)
L2147704-02I	Amber 500ml unpreserved	B	7	7	4.3	Y	Absent		TPH-DRO-D(7)
L2147704-03A	Plastic 2oz unpreserved for TS	B	NA		4.3	Y	Absent		TS(7)
L2147704-03B	Glass 60mL/2oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),MCP-8082-10(365),MCP-8151-10(14),MCP-8081-10(14),MCP-8270-10(14),SULFIDE-9030(7),SO4-9038(28),PH-9045(1),MCP-TCN9014-10(14),PAINTF(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L2147704-03C	Glass 250ml/8oz unpreserved	B	NA		4.3	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-7471T-10(28),MCP-S-6010T-10(180),MCP-SB-6010T-10(180),MCP-AG-6010T-10(180),MCP-ZN-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),A2-TOC-9060-2REPS(28),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2147704-03D	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),MCP-8082-10(365),MCP-8151-10(14),MCP-8081-10(14),MCP-8270-10(14),SULFIDE-9030(7),SO4-9038(28),PH-9045(1),MCP-TCN9014-10(14),PAINTF(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L2147704-04A	Plastic 2oz unpreserved for TS	B	NA		4.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: KCP
Project Number: 112C08712

Serial_No:09212116:54
Lab Number: L2147704
Report Date: 09/21/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2147704-04B	Glass 60mL/2oz unpreserved	B	NA		4.3	Y	Absent		MCP-8082-10(365),IGNIT-1030(14),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),SULFIDE-9030(7),SO4-9038(28),PH-9045(1),MCP-TCN9014-10(14),PAINTF(),TPH-DRO-D(14),REACTCN(14),COND-9050(28)
L2147704-04C	Glass 250ml/8oz unpreserved	B	NA		4.3	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-S-6010T-10(180),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-7471T-10(28),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BE-6010T-10(180),A2-TOC-9060-2REPS(28),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2147704-04D	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		MCP-8082-10(365),IGNIT-1030(14),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),SULFIDE-9030(7),SO4-9038(28),PH-9045(1),MCP-TCN9014-10(14),PAINTF(),TPH-DRO-D(14),REACTCN(14),COND-9050(28)
L2147704-05A	Plastic 2oz unpreserved for TS	B	NA		4.3	Y	Absent		TS(7)
L2147704-05B	Glass 60mL/2oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),MCP-8082-10(365),MCP-8151-10(14),MCP-8081-10(14),MCP-8270-10(14),SULFIDE-9030(7),SO4-9038(28),PH-9045(1),MCP-TCN9014-10(14),PAINTF(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L2147704-05C	Glass 250ml/8oz unpreserved	B	NA		4.3	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-TL-6010T-10(180),MCP-CD-6010T-10(180),MCP-S-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-AG-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),A2-TOC-9060-2REPS(28),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L2147704-05D	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),MCP-8082-10(365),MCP-8151-10(14),MCP-8081-10(14),MCP-8270-10(14),SULFIDE-9030(7),SO4-9038(28),PH-9045(1),MCP-TCN9014-10(14),PAINTF(),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L2147704-06A	Vial MeOH preserved	B	NA		4.3	Y	Absent		MCP-8260HLW-10(14)
L2147704-06B	Vial water preserved	B	NA		4.3	Y	Absent	03-SEP-21 19:17	MCP-8260HLW-10(14)
L2147704-06C	Vial water preserved	B	NA		4.3	Y	Absent	03-SEP-21 19:17	MCP-8260HLW-10(14)

Project Name: KCP
Project Number: 112C08712

Serial_No:09212116:54
Lab Number: L2147704
Report Date: 09/21/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2147704-06D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		TS(7)
L2147704-07A	Vial MeOH preserved	B	NA		4.3	Y	Absent		MCP-8260HLW-10(14)
L2147704-07B	Vial water preserved	B	NA		4.3	Y	Absent	03-SEP-21 19:17	MCP-8260HLW-10(14)
L2147704-07C	Vial water preserved	B	NA		4.3	Y	Absent	03-SEP-21 19:17	MCP-8260HLW-10(14)
L2147704-07D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		TS(7)
L2147704-08A	Vial MeOH preserved	B	NA		4.3	Y	Absent		MCP-8260HLW-10(14)
L2147704-08B	Vial water preserved	B	NA		4.3	Y	Absent	03-SEP-21 19:17	MCP-8260HLW-10(14)
L2147704-08C	Vial water preserved	B	NA		4.3	Y	Absent	03-SEP-21 19:17	MCP-8260HLW-10(14)
L2147704-08D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		TS(7)

Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

GLOSSARY

Acronyms

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

Report Format: Data Usability Report



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

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.

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'.

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.

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.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

Data Qualifiers

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: KCP
Project Number: 112C08712

Lab Number: L2147704
Report Date: 09/21/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

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

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

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

EPA 332: Perchlorate; **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), **EPA 600/4-81-045:** PCB-Oil.

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

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



3 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9320

320 Forest Blvd
Mansfield, MA 01948
Tel: 508-625-9300

CHAIN OF CUSTODY

PAGE 4 of 4

Date Rec'd in Lab: 9/3/21

ALPHA Job #: 12147704

Project Information

Project Name:

Project Location:

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

☐ Standard

☐ RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

☐ ADEx

☐ EMAIL

☐ Same as Client Info

PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods

☐ Yes ☐ No CT RCP Analytical Methods

☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)

☐ Yes ☐ No NPDES RGP

☐ Other State / Fed. Program

Criteria

Client Information

Client: InterTech

Address:

Phone:

Email:

Additional Project Information:

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Date

Time

Sample
Matrix

Sampler
Initials

47704-03

Comp - 0203

9/3/21

1440

Soil

TZ

3/21

1

1

1

1

1

1

1

1

1

1

04

Comp - 0506

9/3/21

1450

Soil

TZ

3/21

1

1

1

1

1

1

1

1

1

1

05

Comp - 1011

9/3/21

1500

Soil

TZ

3/21

1

1

1

1

1

1

1

1

1

1

06

BH-11-0203

9/3/21

1120

Soil

TZ

3/21

1

1

1

1

1

1

1

1

1

1

07

BH-11-0506

9/3/21

1125

Soil

TZ

3

1

1

1

1

1

1

1

1

1

1

08

BH-10-1011

9/3/21

1240

Soil

TZ

3

1

1

1

1

1

1

1

1

1

1

Container Type

P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Envelope
D= DOD Bag

Preservative

N= None
H= HCl
N= HNO₃
S= H₂SO₄
Na= NaOH
Me= MeOH
NaH= NaHSO₄
N= NaNO₂
A= Acetic Acid
W= NH₄Cl
Z= Zn Acetate
O= Other

Container Type

V A A

P

Preservative

B A A

A

Relinquished By:

Date/Time

9/3/21 1647

Received By:

Date/Time

9/3/21 1647

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO. 01-01 (rev. 12-Mar-2012)

Method Blank Summary
Form 4
Volatiles

Client	: Tetra Tech, Inc.	Lab Number	: L2147704
Project Name	: KCP	Project Number	: 112C08712
Lab Sample ID	: WG1544907-5	Lab File ID	: VJ210910A05
Instrument ID	: JACK		
Matrix	: WATER	Analysis Date	: 09/10/21 05:49

Client Sample No.	Lab Sample ID	Analysis Date
WG1544907-3LCS	WG1544907-3	09/10/21 04:27
WG1544907-4LCSD	WG1544907-4	09/10/21 05:08
GW-BH-10	L2147704-01	09/10/21 13:55
IDW	L2147704-02	09/10/21 14:36

Method Blank Summary
Form 4
Volatiles

Client	: Tetra Tech, Inc.	Lab Number	: L2147704
Project Name	: KCP	Project Number	: 112C08712
Lab Sample ID	: WG1545485-5	Lab File ID	: V17210911A05
Instrument ID	: VOA117		
Matrix	: SOIL	Analysis Date	: 09/11/21 10:28

Client Sample No.	Lab Sample ID	Analysis Date
WG1545485-3LCS	WG1545485-3	09/11/21 08:44
WG1545485-4LCSD	WG1545485-4	09/11/21 09:10
BH-11-1011	L2147704-08	09/11/21 16:37

Method Blank Summary
Form 4
Volatiles

Client	: Tetra Tech, Inc.	Lab Number	: L2147704
Project Name	: KCP	Project Number	: 112C08712
Lab Sample ID	: WG1545484-5	Lab File ID	: V17210911A05
Instrument ID	: VOA117		
Matrix	: SOIL	Analysis Date	: 09/11/21 10:28

Client Sample No.	Lab Sample ID	Analysis Date
WG1545484-3LCS	WG1545484-3	09/11/21 08:44
WG1545484-4LCSD	WG1545484-4	09/11/21 09:10
BH-11-0506	L2147704-07	09/11/21 13:58

Method Blank Summary Form 4

Client	: Tetra Tech, Inc.	Lab Number	: L2147704
Project Name	: KCP	Project Number	: 112C08712
Lab Sample ID	: WG1545666-5	Lab File ID	: V17210913A04
Instrument ID	: VOA117		
Matrix	: SOIL	Analysis Date	: 09/13/21 06:06

Client Sample No.	Lab Sample ID	Analysis Date
WG1545666-3LCS	WG1545666-3	09/13/21 04:46
WG1545666-4LCSD	WG1545666-4	09/13/21 05:12
BH-11-0203	L2147704-06	09/13/21 10:05

Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : JACK
 Lab File ID : VJ210910A01
 Sample No : WG1544907-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/10/21 04:27
 Init. Calib. Date(s) : 08/20/21 08/20/21
 Init. Calib. Times : 04:45 13:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	101	0
Dichlorodifluoromethane	0.456	0.348	-	23.7*	20	79	0
Chloromethane	0.736	0.464	-	37*	20	63	-.02
Vinyl chloride	10	8.596	-	14	20	91	0
Bromomethane	0.278	0.325	-	-16.9	20	129	0
Chloroethane	0.281	0.271	-	3.6	20	101	0
Trichlorofluoromethane	0.611	0.726	-	-18.8	20	112	0
Ethyl ether	0.223	0.214	-	4	20	107	0
1,1-Dichloroethene	0.328	0.383	-	-16.8	20	131	0
Carbon disulfide	0.918	1.121	-	-22.1*	20	126	0
Methylene chloride	0.395	0.437	-	-10.6	20	123	0
Acetone	0.13	0.115	-	11.5	20	94	0
trans-1,2-Dichloroethene	0.366	0.434	-	-18.6	20	122	-.01
Methyl tert-butyl ether	1.217	1.084	-	10.9	20	96	-.01
Diisopropyl ether	1.662	1.579	-	5	20	102	0
1,1-Dichloroethane	0.822	0.921	-	-12	20	114	0
Ethyl tert-butyl ether	1.448	1.257	-	13.2	20	94	0
cis-1,2-Dichloroethene	0.424	0.486	-	-14.6	20	122	0
2,2-Dichloropropane	0.679	0.795	-	-17.1	20	123	0
Bromochloromethane	0.175	0.209	-	-19.4	20	120	0
Chloroform	0.791	0.856	-	-8.2	20	111	0
Carbon tetrachloride	0.626	0.687	-	-9.7	20	114	0
Tetrahydrofuran	0.13	0.105	-	19.2	20	92	0
Dibromofluoromethane	0.248	0.262	-	-5.6	20	104	0
1,1,1-Trichloroethane	0.675	0.753	-	-11.6	20	112	-.01
2-Butanone	0.194	0.137	-	29.4*	20	76	0
1,1-Dichloropropene	0.541	0.585	-	-8.1	20	116	0
Benzene	1.601	1.749	-	-9.2	20	117	0
tert-Amyl methyl ether	1.135	0.995	-	12.3	20	98	0
1,2-Dichloroethane-d4	0.374	0.332	-	11.2	20	88	0
1,2-Dichloroethane	0.671	0.662	-	1.3	20	100	0
Trichloroethene	0.403	0.438	-	-8.7	20	114	0
Dibromomethane	0.233	0.236	-	-1.3	20	113	0
1,2-Dichloropropane	0.447	0.453	-	-1.3	20	109	0
Bromodichloromethane	0.62	0.643	-	-3.7	20	109	0
1,4-Dioxane	0.00261	0.00276*	-	-5.7	20	124	-.01
cis-1,3-Dichloropropene	0.699	0.696	-	0.4	20	106	0
Chlorobenzene-d5	1	1	-	0	20	101	0
Toluene-d8	1.255	1.221	-	2.7	20	98	0
Toluene	1.324	1.41	-	-6.5	20	116	0
4-Methyl-2-pentanone	0.187	0.133	-	28.9*	20	81	0
Tetrachloroethene	0.561	0.608	-	-8.4	20	116	0
trans-1,3-Dichloropropene	0.84	0.795	-	5.4	20	100	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : JACK
 Lab File ID : VJ210910A01
 Sample No : WG1544907-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/10/21 04:27
 Init. Calib. Date(s) : 08/20/21 08/20/21
 Init. Calib. Times : 04:45 13:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.359	0.348	-	3.1	20	107	0
Chlorodibromomethane	0.528	0.51	-	3.4	20	104	0
1,3-Dichloropropane	0.788	0.742	-	5.8	20	105	0
1,2-Dibromoethane	0.43	0.397	-	7.7	20	104	0
2-Hexanone	0.406	0.265	-	34.7*	20	75	0
Chlorobenzene	1.418	1.564	-	-10.3	20	118	0
Ethylbenzene	2.626	2.845	-	-8.3	20	115	0
1,1,1,2-Tetrachloroethane	0.55	0.561	-	-2	20	109	0
p/m Xylene	1.045	1.094	-	-4.7	20	112	0
o Xylene	0.968	1.064	-	-9.9	20	116	0
Styrene	1.659	1.805	-	-8.8	20	114	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
Bromoform	0.567	0.535	-	5.6	20	100	0
Isopropylbenzene	4.505	5.172	-	-14.8	20	119	0
4-Bromofluorobenzene	0.873	0.863	-	1.1	20	96	0
Bromobenzene	1.02	1.153	-	-13	20	113	0
n-Propylbenzene	5.338	6.372	-	-19.4	20	121	0
1,1,2,2-Tetrachloroethane	0.804	0.77	-	4.2	20	104	0
2-Chlorotoluene	3.722	4.265	-	-14.6	20	117	0
1,3,5-Trimethylbenzene	3.778	4.395	-	-16.3	20	118	0
1,2,3-Trichloropropane	0.763	0.686	-	10.1	20	96	0
4-Chlorotoluene	3.401	3.878	-	-14	20	117	0
tert-Butylbenzene	3.221	3.804	-	-18.1	20	120	0
1,2,4-Trimethylbenzene	3.768	4.303	-	-14.2	20	116	0
sec-Butylbenzene	4.98	5.649	-	-13.4	20	119	0
p-Isopropyltoluene	4.224	4.906	-	-16.1	20	120	0
1,3-Dichlorobenzene	2.166	2.489	-	-14.9	20	120	0
1,4-Dichlorobenzene	2.15	2.442	-	-13.6	20	114	0
n-Butylbenzene	3.814	4.312	-	-13.1	20	121	0
1,2-Dichlorobenzene	2.033	2.171	-	-6.8	20	115	0
1,2-Dibromo-3-chloropropan	0.158	0.124	-	21.5*	20	94	0
Hexachlorobutadiene	0.586	0.658	-	-12.3	20	115	0
1,2,4-Trichlorobenzene	1.218	1.222	-	-0.3	20	108	0
Naphthalene	2.467	2.05	-	16.9	20	94	0
1,2,3-Trichlorobenzene	1.071	1.006	-	6.1	20	101	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210911A01
 Sample No : WG1545484-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/11/21 08:44
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	102	-.01
Dichlorodifluoromethane	0.063	0.058	-	7.9	20	90	0
Chloromethane	0.131	0.155	-	-18.3	20	127	-.02
Vinyl chloride	0.154	0.153	-	0.6	20	101	0
Bromomethane	40	38.241	-	4.4	20	98	0
Chloroethane	0.136	0.116	-	14.7	20	88	0
Trichlorofluoromethane	0.273	0.244	-	10.6	20	88	0
Ethyl ether	0.104	0.089	-	14.4	20	89	0
1,1-Dichloroethene	0.137	0.148	-	-8	20	109	0
Carbon disulfide	0.443	0.456	-	-2.9	20	109	0
Freon-113	0.135	0.162	-	-20	20	119	0
Acrolein	0.012	0.013*	-	-8.3	20	102	0
Methylene chloride	40	43.468	-	-8.7	20	110	0
Acetone	40	48.864	-	-22.2*	20	125	-.01
trans-1,2-Dichloroethene	0.168	0.173	-	-3	20	105	0
Methyl acetate	0.069	0.081*	-	-17.4	20	127	-.01
Methyl tert-butyl ether	0.42	0.435	-	-3.6	20	105	0
tert-Butyl alcohol	0.012	0.012*	-	0	20	105	-.02
Diisopropyl ether	0.484	0.6	-	-24*	20	123	-.01
1,1-Dichloroethane	0.301	0.349	-	-15.9	20	119	0
Halothane	0.124	0.129	-	-4	20	103	0
Acrylonitrile	40	45.075	-	-12.7	20	117	0
Ethyl tert-butyl ether	0.468	0.543	-	-16	20	116	-.01
Vinyl acetate	0.261	0.35	-	-34.1*	20	138	-.01
cis-1,2-Dichloroethene	0.187	0.196	-	-4.8	20	106	0
2,2-Dichloropropane	0.262	0.282	-	-7.6	20	109	0
Bromochloromethane	0.079	0.079	-	0	20	102	0
Cyclohexane	0.261	0.32	-	-22.6*	20	122	0
Chloroform	0.337	0.352	-	-4.5	20	110	-.01
Ethyl acetate	0.102	0.119	-	-16.7	20	118	-.02
Carbon tetrachloride	0.24	0.25	-	-4.2	20	105	0
Tetrahydrofuran	40	45.795	-	-14.5	20	112	-.01
Dibromofluoromethane	0.242	0.254	-	-5	20	109	-.01
1,1,1-Trichloroethane	0.263	0.278	-	-5.7	20	105	0
2-Butanone	40	46.749	-	-16.9	20	126	-.01
1,1-Dichloropropene	0.223	0.232	-	-4	20	101	0
Benzene	0.673	0.695	-	-3.3	20	105	-.01
tert-Amyl methyl ether	0.4	0.414	-	-3.5	20	102	-.01
1,2-Dichloroethane-d4	0.236	0.264	-	-11.9	20	118	-.01
1,2-Dichloroethane	0.207	0.231	-	-11.6	20	114	0
Methyl cyclohexane	0.274	0.3	-	-9.5	20	107	0
Trichloroethene	0.181	0.186*	-	-2.8	20	101	-.01
Dibromomethane	0.092	0.092	-	0	20	101	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210911A01
 Sample No : WG1545484-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/11/21 08:44
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.171	0.188	-	-9.9	20	110	-.01
2-Chloroethyl vinyl ether	0.084	0.085	-	-1.2	20	97	-.01
Bromodichloromethane	0.23	0.242	-	-5.2	20	104	0
1,4-Dioxane	0.00133	0.00138*	-	-3.8	20	99	-.02
cis-1,3-Dichloropropene	0.257	0.278	-	-8.2	20	104	-.01
Chlorobenzene-d5	1	1	-	0	20	104	-.01
Toluene-d8	1.299	1.339	-	-3.1	20	107	-.01
Toluene	0.594	0.585	-	1.5	20	102	-.01
4-Methyl-2-pentanone	40	36.093	-	9.8	20	96	0
Tetrachloroethene	0.237	0.23	-	3	20	96	-.01
trans-1,3-Dichloropropene	0.297	0.327	-	-10.1	20	107	0
Ethyl methacrylate	0.235	0.22	-	6.4	20	92	-.01
1,1,2-Trichloroethane	0.144	0.147	-	-2.1	20	101	-.01
Chlorodibromomethane	0.203	0.21	-	-3.4	20	100	-.01
1,3-Dichloropropane	0.301	0.308	-	-2.3	20	103	-.01
1,2-Dibromoethane	0.162	0.163	-	-0.6	20	97	-.01
2-Hexanone	0.088	0.091*	-	-3.4	20	102	-.01
Chlorobenzene	0.647	0.635	-	1.9	20	99	-.01
Ethylbenzene	1.136	1.133	-	0.3	20	102	-.01
1,1,1,2-Tetrachloroethane	0.22	0.225	-	-2.3	20	99	-.02
p/m Xylene	0.429	0.421	-	1.9	20	99	-.01
o Xylene	0.41	0.398	-	2.9	20	98	-.01
Styrene	0.684	0.676	-	1.2	20	98	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	104	-.01
Bromoform	0.238	0.225	-	5.5	20	99	-.01
Isopropylbenzene	2.205	2.178	-	1.2	20	98	0
4-Bromofluorobenzene	0.907	0.976	-	-7.6	20	110	0
Bromobenzene	0.518	0.476	-	8.1	20	92	-.01
n-Propylbenzene	2.685	2.593	-	3.4	20	97	0
1,4-Dichlorobutane	0.622	0.682	-	-9.6	20	111	0
1,1,2,2-Tetrachloroethane	0.389	0.401	-	-3.1	20	101	-.01
4-Ethyltoluene	2.198	2.118	-	3.6	20	98	0
2-Chlorotoluene	1.547	1.534	-	0.8	20	100	0
1,3,5-Trimethylbenzene	1.865	1.852	-	0.7	20	100	0
1,2,3-Trichloropropane	0.319	0.318	-	0.3	20	100	-.01
trans-1,4-Dichloro-2-buten	0.12	0.135	-	-12.5	20	109	-.01
4-Chlorotoluene	1.601	1.619	-	-1.1	20	102	-.01
tert-Butylbenzene	1.6	1.534	-	4.1	20	96	0
1,2,4-Trimethylbenzene	1.863	1.842	-	1.1	20	100	-.01
sec-Butylbenzene	2.458	2.374	-	3.4	20	97	0
p-Isopropyltoluene	2.072	2.014	-	2.8	20	98	0
1,3-Dichlorobenzene	1.06	1.013	-	4.4	20	98	0
1,4-Dichlorobenzene	1.052	1.002	-	4.8	20	98	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210911A01
 Sample No : WG1545484-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/11/21 08:44
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.248	1.217	-	2.5	20	98	0
n-Butylbenzene	1.931	1.94	-	-0.5	20	101	0
1,2-Dichlorobenzene	0.956	0.91	-	4.8	20	97	0
1,2,4,5-Tetramethylbenzene	1.997	1.92	-	3.9	20	97	0
1,2-Dibromo-3-chloropropan	0.063	0.054	-	14.3	20	86	0
1,3,5-Trichlorobenzene	0.756	0.75	-	0.8	20	101	0
Hexachlorobutadiene	0.364	0.361	-	0.8	20	99	0
1,2,4-Trichlorobenzene	0.693	0.659	-	4.9	20	97	0
Naphthalene	1.463	1.312	-	10.3	20	91	0
1,2,3-Trichlorobenzene	0.629	0.595	-	5.4	20	97	0

* Value outside of QC limits.



Calibration Verification Summary Form 7

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210911A01
 Sample No : WG1545485-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/11/21 08:44
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	102	-.01
Dichlorodifluoromethane	0.063	0.058	-	7.9	20	90	0
Chloromethane	0.131	0.155	-	-18.3	20	127	-.02
Vinyl chloride	0.154	0.153	-	0.6	20	101	0
Bromomethane	40	38.241	-	4.4	20	98	0
Chloroethane	0.136	0.116	-	14.7	20	88	0
Trichlorofluoromethane	0.273	0.244	-	10.6	20	88	0
Ethyl ether	0.104	0.089	-	14.4	20	89	0
1,1-Dichloroethene	0.137	0.148	-	-8	20	109	0
Carbon disulfide	0.443	0.456	-	-2.9	20	109	0
Freon-113	0.135	0.162	-	-20	20	119	0
Acrolein	0.012	0.013*	-	-8.3	20	102	0
Methylene chloride	40	43.468	-	-8.7	20	110	0
Acetone	40	48.864	-	-22.2*	20	125	-.01
trans-1,2-Dichloroethene	0.168	0.173	-	-3	20	105	0
Methyl acetate	0.069	0.081*	-	-17.4	20	127	-.01
Methyl tert-butyl ether	0.42	0.435	-	-3.6	20	105	0
tert-Butyl alcohol	0.012	0.012*	-	0	20	105	-.02
Diisopropyl ether	0.484	0.6	-	-24*	20	123	-.01
1,1-Dichloroethane	0.301	0.349	-	-15.9	20	119	0
Halothane	0.124	0.129	-	-4	20	103	0
Acrylonitrile	40	45.075	-	-12.7	20	117	0
Ethyl tert-butyl ether	0.468	0.543	-	-16	20	116	-.01
Vinyl acetate	0.261	0.35	-	-34.1*	20	138	-.01
cis-1,2-Dichloroethene	0.187	0.196	-	-4.8	20	106	0
2,2-Dichloropropane	0.262	0.282	-	-7.6	20	109	0
Bromochloromethane	0.079	0.079	-	0	20	102	0
Cyclohexane	0.261	0.32	-	-22.6*	20	122	0
Chloroform	0.337	0.352	-	-4.5	20	110	-.01
Ethyl acetate	0.102	0.119	-	-16.7	20	118	-.02
Carbon tetrachloride	0.24	0.25	-	-4.2	20	105	0
Tetrahydrofuran	40	45.795	-	-14.5	20	112	-.01
Dibromofluoromethane	0.242	0.254	-	-5	20	109	-.01
1,1,1-Trichloroethane	0.263	0.278	-	-5.7	20	105	0
2-Butanone	40	46.749	-	-16.9	20	126	-.01
1,1-Dichloropropene	0.223	0.232	-	-4	20	101	0
Benzene	0.673	0.695	-	-3.3	20	105	-.01
tert-Amyl methyl ether	0.4	0.414	-	-3.5	20	102	-.01
1,2-Dichloroethane-d4	0.236	0.264	-	-11.9	20	118	-.01
1,2-Dichloroethane	0.207	0.231	-	-11.6	20	114	0
Methyl cyclohexane	0.274	0.3	-	-9.5	20	107	0
Trichloroethene	0.181	0.186*	-	-2.8	20	101	-.01
Dibromomethane	0.092	0.092	-	0	20	101	0

* Value outside of QC limits.



Calibration Verification Summary Form 7

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210911A01
 Sample No : WG1545485-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/11/21 08:44
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.171	0.188	-	-9.9	20	110	-.01
2-Chloroethyl vinyl ether	0.084	0.085	-	-1.2	20	97	-.01
Bromodichloromethane	0.23	0.242	-	-5.2	20	104	0
1,4-Dioxane	0.00133	0.00138*	-	-3.8	20	99	-.02
cis-1,3-Dichloropropene	0.257	0.278	-	-8.2	20	104	-.01
Chlorobenzene-d5	1	1	-	0	20	104	-.01
Toluene-d8	1.299	1.339	-	-3.1	20	107	-.01
Toluene	0.594	0.585	-	1.5	20	102	-.01
4-Methyl-2-pentanone	40	36.093	-	9.8	20	96	0
Tetrachloroethene	0.237	0.23	-	3	20	96	-.01
trans-1,3-Dichloropropene	0.297	0.327	-	-10.1	20	107	0
Ethyl methacrylate	0.235	0.22	-	6.4	20	92	-.01
1,1,2-Trichloroethane	0.144	0.147	-	-2.1	20	101	-.01
Chlorodibromomethane	0.203	0.21	-	-3.4	20	100	-.01
1,3-Dichloropropane	0.301	0.308	-	-2.3	20	103	-.01
1,2-Dibromoethane	0.162	0.163	-	-0.6	20	97	-.01
2-Hexanone	0.088	0.091*	-	-3.4	20	102	-.01
Chlorobenzene	0.647	0.635	-	1.9	20	99	-.01
Ethylbenzene	1.136	1.133	-	0.3	20	102	-.01
1,1,1,2-Tetrachloroethane	0.22	0.225	-	-2.3	20	99	-.02
p/m Xylene	0.429	0.421	-	1.9	20	99	-.01
o Xylene	0.41	0.398	-	2.9	20	98	-.01
Styrene	0.684	0.676	-	1.2	20	98	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	104	-.01
Bromoform	0.238	0.225	-	5.5	20	99	-.01
Isopropylbenzene	2.205	2.178	-	1.2	20	98	0
4-Bromofluorobenzene	0.907	0.976	-	-7.6	20	110	0
Bromobenzene	0.518	0.476	-	8.1	20	92	-.01
n-Propylbenzene	2.685	2.593	-	3.4	20	97	0
1,4-Dichlorobutane	0.622	0.682	-	-9.6	20	111	0
1,1,2,2-Tetrachloroethane	0.389	0.401	-	-3.1	20	101	-.01
4-Ethyltoluene	2.198	2.118	-	3.6	20	98	0
2-Chlorotoluene	1.547	1.534	-	0.8	20	100	0
1,3,5-Trimethylbenzene	1.865	1.852	-	0.7	20	100	0
1,2,3-Trichloropropane	0.319	0.318	-	0.3	20	100	-.01
trans-1,4-Dichloro-2-buten	0.12	0.135	-	-12.5	20	109	-.01
4-Chlorotoluene	1.601	1.619	-	-1.1	20	102	-.01
tert-Butylbenzene	1.6	1.534	-	4.1	20	96	0
1,2,4-Trimethylbenzene	1.863	1.842	-	1.1	20	100	-.01
sec-Butylbenzene	2.458	2.374	-	3.4	20	97	0
p-Isopropyltoluene	2.072	2.014	-	2.8	20	98	0
1,3-Dichlorobenzene	1.06	1.013	-	4.4	20	98	0
1,4-Dichlorobenzene	1.052	1.002	-	4.8	20	98	0

* Value outside of QC limits.



Calibration Verification Summary Form 7

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210911A01
 Sample No : WG1545485-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/11/21 08:44
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.248	1.217	-	2.5	20	98	0
n-Butylbenzene	1.931	1.94	-	-0.5	20	101	0
1,2-Dichlorobenzene	0.956	0.91	-	4.8	20	97	0
1,2,4,5-Tetramethylbenzene	1.997	1.92	-	3.9	20	97	0
1,2-Dibromo-3-chloropropan	0.063	0.054	-	14.3	20	86	0
1,3,5-Trichlorobenzene	0.756	0.75	-	0.8	20	101	0
Hexachlorobutadiene	0.364	0.361	-	0.8	20	99	0
1,2,4-Trichlorobenzene	0.693	0.659	-	4.9	20	97	0
Naphthalene	1.463	1.312	-	10.3	20	91	0
1,2,3-Trichlorobenzene	0.629	0.595	-	5.4	20	97	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210913A01
 Sample No : WG1545666-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/13/21 04:46
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	108	-.01
Dichlorodifluoromethane	0.063	0.044*	-	30.2*	20	73	0
Chloromethane	0.131	0.142	-	-8.4	20	123	-.01
Vinyl chloride	0.154	0.146	-	5.2	20	102	0
Bromomethane	40	34.547	-	13.6	20	94	0
Chloroethane	0.136	0.105	-	22.8*	20	84	0
Trichlorofluoromethane	0.273	0.224	-	17.9	20	86	0
Ethyl ether	0.104	0.08	-	23.1*	20	84	0
1,1-Dichloroethene	0.137	0.144	-	-5.1	20	113	0
Carbon disulfide	0.443	0.445	-	-0.5	20	113	0
Freon-113	0.135	0.162	-	-20	20	126	0
Acrolein	0.012	0.012*	-	0	20	99	0
Methylene chloride	40	40.815	-	-2	20	109	0
Acetone	40	42.37	-	-5.9	20	115	0
trans-1,2-Dichloroethene	0.168	0.17	-	-1.2	20	109	0
Methyl acetate	0.069	0.075*	-	-8.7	20	124	-.01
Methyl tert-butyl ether	0.42	0.407	-	3.1	20	104	0
tert-Butyl alcohol	0.012	0.012*	-	0	20	104	-.01
Diisopropyl ether	0.484	0.582	-	-20.2*	20	126	0
1,1-Dichloroethane	0.301	0.338	-	-12.3	20	121	0
Halothane	0.124	0.13	-	-4.8	20	110	0
Acrylonitrile	40	42.567	-	-6.4	20	117	0
Ethyl tert-butyl ether	0.468	0.519	-	-10.9	20	117	-.01
Vinyl acetate	0.261	0.324	-	-24.1*	20	135	-.01
cis-1,2-Dichloroethene	0.187	0.186	-	0.5	20	106	0
2,2-Dichloropropane	0.262	0.273	-	-4.2	20	112	0
Bromochloromethane	0.079	0.075	-	5.1	20	102	-.01
Cyclohexane	0.261	0.321	-	-23*	20	130	0
Chloroform	0.337	0.321	-	4.7	20	106	-.01
Ethyl acetate	0.102	0.113	-	-10.8	20	118	-.01
Carbon tetrachloride	0.24	0.248	-	-3.3	20	110	0
Tetrahydrofuran	40	43.501	-	-8.8	20	113	0
Dibromofluoromethane	0.242	0.25	-	-3.3	20	113	-.01
1,1,1-Trichloroethane	0.263	0.272	-	-3.4	20	108	0
2-Butanone	40	43.431	-	-8.6	20	124	-.01
1,1-Dichloropropene	0.223	0.229	-	-2.7	20	106	0
Benzene	0.673	0.676	-	-0.4	20	108	-.01
tert-Amyl methyl ether	0.4	0.394	-	1.5	20	103	0
1,2-Dichloroethane-d4	0.236	0.253	-	-7.2	20	119	0
1,2-Dichloroethane	0.207	0.211	-	-1.9	20	111	-.01
Methyl cyclohexane	0.274	0.3	-	-9.5	20	114	0
Trichloroethene	0.181	0.183*	-	-1.1	20	106	-.01
Dibromomethane	0.092	0.085	-	7.6	20	98	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210913A01
 Sample No : WG1545666-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/13/21 04:46
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.171	0.18	-	-5.3	20	111	-.01
2-Chloroethyl vinyl ether	0.084	0.081	-	3.6	20	98	-.01
Bromodichloromethane	0.23	0.229	-	0.4	20	104	-.01
1,4-Dioxane	0.00133	0.00129*	-	3	20	97	-.01
cis-1,3-Dichloropropene	0.257	0.264	-	-2.7	20	104	-.01
Chlorobenzene-d5	1	1	-	0	20	103	-.01
Toluene-d8	1.299	1.397	-	-7.5	20	110	-.01
Toluene	0.594	0.615	-	-3.5	20	106	-.01
4-Methyl-2-pentanone	40	38.207	-	4.5	20	101	0
Tetrachloroethene	0.237	0.249	-	-5.1	20	102	-.01
trans-1,3-Dichloropropene	0.297	0.325	-	-9.4	20	105	0
Ethyl methacrylate	0.235	0.225	-	4.3	20	93	0
1,1,2-Trichloroethane	0.144	0.149	-	-3.5	20	102	0
Chlorodibromomethane	0.203	0.21	-	-3.4	20	99	-.01
1,3-Dichloropropane	0.301	0.31	-	-3	20	102	-.01
1,2-Dibromoethane	0.162	0.165	-	-1.9	20	98	-.01
2-Hexanone	0.088	0.095*	-	-8	20	105	-.01
Chlorobenzene	0.647	0.655	-	-1.2	20	101	-.01
Ethylbenzene	1.136	1.189	-	-4.7	20	106	-.01
1,1,1,2-Tetrachloroethane	0.22	0.231	-	-5	20	101	-.01
p/m Xylene	0.429	0.441	-	-2.8	20	102	-.01
o Xylene	0.41	0.412	-	-0.5	20	101	-.01
Styrene	0.684	0.696	-	-1.8	20	100	-.01
1,4-Dichlorobenzene-d4	1	1	-	0	20	100	-.01
Bromoform	0.238	0.229	-	3.8	20	97	0
Isopropylbenzene	2.205	2.362	-	-7.1	20	102	0
4-Bromofluorobenzene	0.907	0.972	-	-7.2	20	105	0
Bromobenzene	0.518	0.498	-	3.9	20	93	-.01
n-Propylbenzene	2.685	2.846	-	-6	20	103	0
1,4-Dichlorobutane	0.622	0.709	-	-14	20	112	0
1,1,2,2-Tetrachloroethane	0.389	0.409	-	-5.1	20	99	-.01
4-Ethyltoluene	2.198	2.303	-	-4.8	20	102	0
2-Chlorotoluene	1.547	1.655	-	-7	20	104	0
1,3,5-Trimethylbenzene	1.865	1.967	-	-5.5	20	103	0
1,2,3-Trichloropropane	0.319	0.325	-	-1.9	20	99	-.01
trans-1,4-Dichloro-2-buten	0.12	0.136	-	-13.3	20	106	-.01
4-Chlorotoluene	1.601	1.72	-	-7.4	20	105	0
tert-Butylbenzene	1.6	1.67	-	-4.4	20	101	0
1,2,4-Trimethylbenzene	1.863	1.958	-	-5.1	20	103	-.01
sec-Butylbenzene	2.458	2.584	-	-5.1	20	102	0
p-Isopropyltoluene	2.072	2.176	-	-5	20	102	0
1,3-Dichlorobenzene	1.06	1.059	-	0.1	20	99	0
1,4-Dichlorobenzene	1.052	1.055	-	-0.3	20	100	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : VOA117
 Lab File ID : V17210913A01
 Sample No : WG1545666-2
 Channel :

Lab Number : L2147704
 Project Number : 112C08712
 Calibration Date : 09/13/21 04:46
 Init. Calib. Date(s) : 07/26/21 07/27/21
 Init. Calib. Times : 22:08 01:36

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.248	1.324	-	-6.1	20	103	0
n-Butylbenzene	1.931	2.097	-	-8.6	20	105	0
1,2-Dichlorobenzene	0.956	0.94	-	1.7	20	97	0
1,2,4,5-Tetramethylbenzene	1.997	2.02	-	-1.2	20	98	0
1,2-Dibromo-3-chloropropan	0.063	0.055	-	12.7	20	85	0
1,3,5-Trichlorobenzene	0.756	0.812	-	-7.4	20	105	0
Hexachlorobutadiene	0.364	0.395	-	-8.5	20	104	0
1,2,4-Trichlorobenzene	0.693	0.704	-	-1.6	20	99	0
Naphthalene	1.463	1.338	-	8.5	20	89	0
1,2,3-Trichlorobenzene	0.629	0.62	-	1.4	20	97	0

* Value outside of QC limits.



Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PETRO\Petro22\210910\
Data File : P22210910-30.D
Signal(s) : FID1A.ch
Acq On : 10 Sep 2021 03:18 pm
Operator : Petro22a:jb
Sample : L2147704-05D,42,20, RR
Misc : wg1544808,wg1543266,ical17070
ALS Vial : 15 Sample Multiplier: 1

Integration File: events.e

Quant Time: Sep 13 08:19:08 2021

Quant Method : I:\PETRO\Petro22\210910\DROD200713TA.M

Serial_No:09212116:54

Quant Title : ETPH

QLast Update : Thu Sep 09 07:29:51 2021

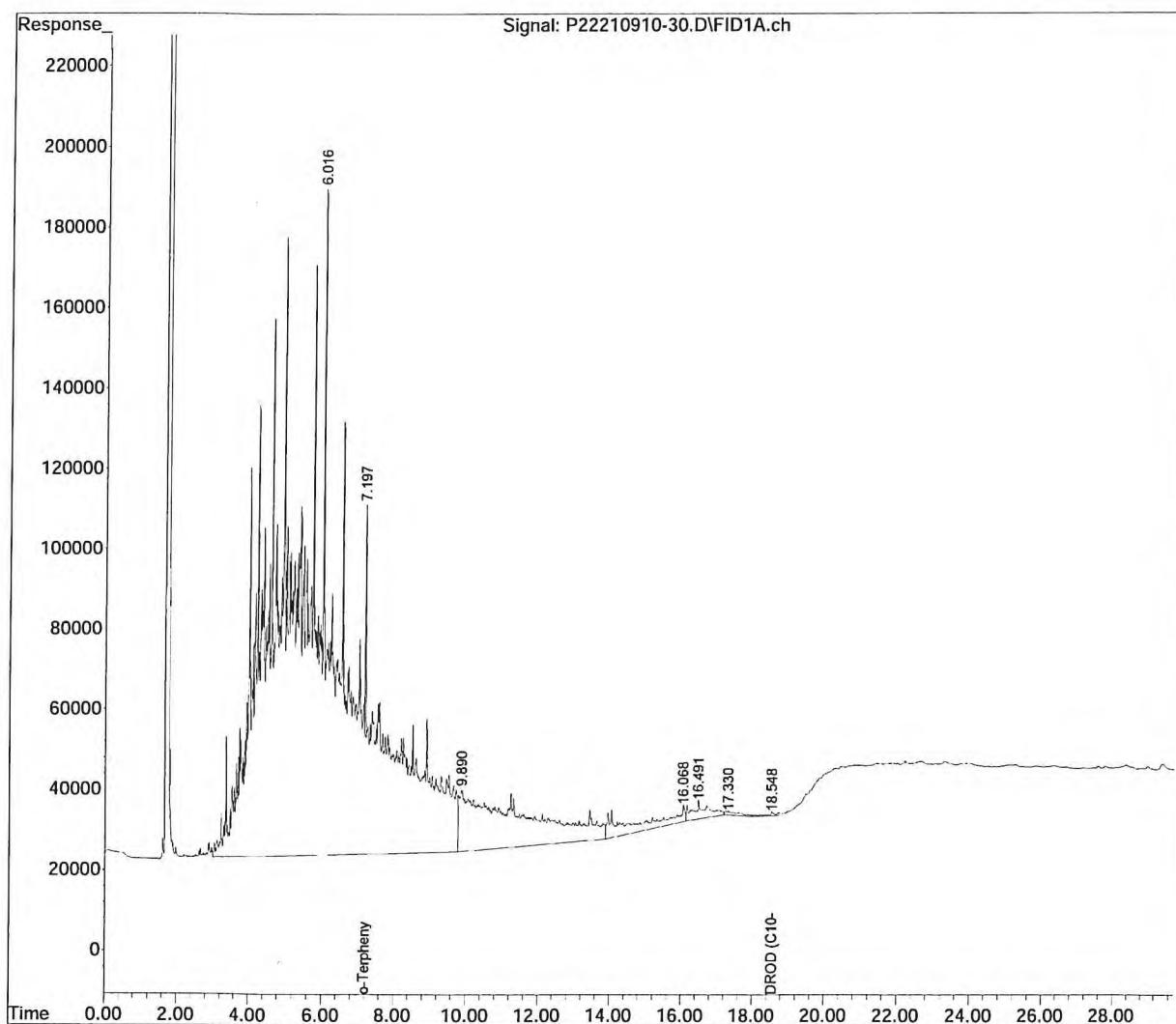
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal Phase :

Signal Info :



Performance Evaluation Mixture Summary

Form 15

Pesticides

Client : Tetra Tech, Inc.
 Project Name : KCP
 Instrument ID : PEST10
 PEM Standard : R1477212-1
 Column 1 : RTX-5

Lab Number : L2147704
 Project Number : 112C08712
 Analysis Date : 09/08/21 07:33
 Column 2 : RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	108744.20085	129715.19232
Endrin	61312022.67009	50737508.55505
4,4'-DDD	291575.17883	177130.44
4,4'-DDT	105296620.65278	89480025.62413
Endrin Aldehyde	240758.21055	109477.08779
Endrin Ketone	360559.71729	285678.82353

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.971	0.773
DDT	0.379	0.342

Performance Evaluation Mixture Summary

Form 15

Pesticides

Client	: Tetra Tech, Inc.	Lab Number	: L2147704
Project Name	: KCP	Project Number	: 112C08712
Instrument ID	: PEST15	Analysis Date	: 09/11/21 09:29
PEM Standard	: R1477700-1		
Column 1	: RTX-5	Column 2	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	824951.11897	840380.39777
Endrin	764011216.35254	603990630.875
4,4'-DDD	1312792.23933	2888765.37943
4,4'-DDT	1311530054.5628	1065210783.5625
Endrin Aldehyde	2302541.76247	1297770.22769
Endrin Ketone	4624603.47028	2913690.59233

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.898	0.692
DDT	0.163	0.349

Appendix E

BMP Plan

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
REMEDIAL GENERAL PERMIT
GTS PROJECT
CAMBRIDGE, MASSACHUSETTS**

Best Management Practices Plan

A Notice of Intent for a Remediation General Permit (RGP) under the National Pollutant Discharge Elimination System (NPDES) has been submitted to the US Environmental Protection Agency (EPA) in anticipation of temporary construction dewatering planned to occur at the GTS project site located in Cambridge, Massachusetts. This Best Management Practices Plan (BMPP) has been prepared as an Appendix to the RGP and will be posted at the site during the time period that temporary construction dewatering is occurring at the site.

Water Treatment and Management

Construction dewatering effluent is anticipated to be pumped from well points installed in sump pits within the excavations, through hoses or temporary pipe, and directly into a tank for sedimentation control. The effluent will then flow through any necessary treatment systems and discharge through hoses or temporary piping to catch basins on site that discharge to the Charles River. Dewatering effluent treatment may consist of bag filters, granular activated carbon (GAC), ion exchange, or precipitation, as required.

Discharge Monitoring and Compliance

Regular sampling and testing will be conducted at the influent to the system and the treated effluent as required by the RGP. This includes chemical testing required within the first month of discharging, and the monthly testing to be conducted through the end of the scheduled discharge.

Monitoring will include checking the condition of the treatment system, assessing the need for treatment system adjustments based on monitoring data, observing and recording daily flow rates and discharge quantities, and verifying the flow path of the discharged effluent.

The total monthly flow will be monitored by checking and documenting the flow through the flow meter to be installed on the system. Flow will be maintained below the "system design flow" by regularly monitoring flow and adjusting the amount of construction dewatering as needed.

Monthly monitoring reports will be compiled and maintained at the site.

System Maintenance

A number of methods will be used to minimize the potential for violations for the term of this permit. Scheduled regular maintenance of the treatment system will be conducted to verify proper operation. Regular maintenance will include checking the condition of the treatment system equipment such as the fractionation tanks, filters, hoses, pumps, and flow meters. Equipment will be monitored daily for potential issues or unscheduled maintenance requirements.

Employees who have direct or indirect responsibility for ensuring compliance with the RGP will be trained by the Operator.

Miscellaneous Items

It is anticipated that the excavation support system, erosion control measures, and the nature of the site and surrounding infrastructure will minimize potential runoff to or from the site. The project specifications also include requirements for erosion control. Site security for the treatment system will be covered within the overall site security plan.

No adverse effects on designated uses of surrounding surface water bodies is anticipated. The nearest surface water body is the Charles River. Dewatering effluent will be pumped to a sedimentation tank and bag filter, at a minimum, prior to discharge to the storm drains.

Management of Treatment System Materials

Dewatering effluent will be pumped directly to the treatment system from the excavations with use of hoses and sumps to minimize handling. The Contractor will establish staging areas for equipment or materials storage that may be possible sources of pollution away from any dewatering activities, to the extent practicable.

Sediment from the fractionization tank used in the treatment system will be characterized and removed from the site to an appropriate receiving facility, in accordance with applicable laws and regulations. If used, granular activated carbon and/or ion exchange resin may be recycled and/or removed from the site to an appropriate receiving facility. Bag filters, if used, will be disposed of as necessary.

Appendix F

Receiving Water Results



ANALYTICAL REPORT

Lab Number:	L2200184
Client:	Tetra Tech, Inc. 5 Industrial Way Suite 2B Salem, NH 03079
ATTN:	James Greacen
Phone:	(603) 328-1476
Project Name:	KENDALL SQUARE
Project Number:	112C08712-03
Report Date:	01/17/22

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2200184-01	CR-01	WATER	CAMBRIDGE, MA	01/03/22 13:35	01/03/22

Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	NO
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Case Narrative

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

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

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

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

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

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

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

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.

MCP Related Narratives

Volatile Organics

In reference to question H:

L2200184-01: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0053)

Average Response Factor: 1,4-dioxane

L2200184-01: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

Semivolatile Organics

L2200184-01, WG1590748-1, WG1590748-2, and WG1590748-3: The initial calibration utilized a quadratic fit for Bis(2-ethylhexyl)phthalate and Butyl benzyl phthalate.

Semivolatile Organics by SIM

L2200184-01, WG1590750-1, WG1590750-2, and WG1590750-3: The initial calibration utilized a quadratic fit for Pentachlorophenol.

VPH

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Case Narrative (continued)

EPH

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

Total Metals

In reference to question B:

At the client's request, the analytical method specified in the CAM protocol was not followed.

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

Chromium, Hexavalent

In reference to question B:

At the client's request, the analytical method specified in the CAM protocol was not followed.

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:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 01/17/22

QC OUTLIER SUMMARY REPORT

Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics - Westborough Lab								
8260D	Batch QC	WG1591109-3	Chloroethane	LCS	140	70-130	01	potential high bias
8260D	Batch QC	WG1591109-3	1,4-Dioxane	LCS	132	70-130	01	potential high bias
8260D	Batch QC	WG1591109-4	Bromomethane	LCSD	22	20	01	non-directional bias
8260D	Batch QC	WG1591109-4	Bromomethane	LCSD	150	70-130	01	potential high bias
8260D	Batch QC	WG1591109-4	Chloroethane	LCSD	140	70-130	01	potential high bias
MCP Semivolatile Organics - Westborough Lab								
8270E	Batch QC	WG1590748-3	4-Chloroaniline	LCSD	25	20	01	non-directional bias

ORGANICS

VOLATILES

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2200184-01
Client ID: CR-01
Sample Location: CAMBRIDGE, MA

Date Collected: 01/03/22 13:35
Date Received: 01/03/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 01/05/22 09:38
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	0.68	1
1,1-Dichloroethane	ND		ug/l	1.0	0.21	1
Chloroform	ND		ug/l	1.0	0.22	1
Carbon tetrachloride	ND		ug/l	1.0	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.0	0.14	1
Tetrachloroethene	ND		ug/l	1.0	0.18	1
Chlorobenzene	ND		ug/l	1.0	0.18	1
Trichlorofluoromethane	ND		ug/l	2.0	0.16	1
1,2-Dichloroethane	ND		ug/l	1.0	0.13	1
1,1,1-Trichloroethane	ND		ug/l	1.0	0.16	1
Bromodichloromethane	ND		ug/l	1.0	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	0.14	1
1,1-Dichloropropene	ND		ug/l	2.0	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	1.0	0.20	1
Ethylbenzene	ND		ug/l	1.0	0.17	1
Chloromethane	ND		ug/l	2.0	0.20	1
Bromomethane	ND		ug/l	2.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.0	0.13	1
1,1-Dichloroethene	ND		ug/l	1.0	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.16	1

Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2200184-01

Date Collected: 01/03/22 13:35

Client ID: CR-01

Date Received: 01/03/22

Sample Location: CAMBRIDGE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	0.18	1
1,2-Dichlorobenzene	ND		ug/l	1.0	0.18	1
1,3-Dichlorobenzene	ND		ug/l	1.0	0.19	1
1,4-Dichlorobenzene	ND		ug/l	1.0	0.19	1
Methyl tert butyl ether	ND		ug/l	2.0	0.17	1
p/m-Xylene	ND		ug/l	2.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	0.16	1
Dibromomethane	ND		ug/l	2.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	2.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	2.0	0.24	1
Acetone	1.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	2.0	0.30	1
Methyl ethyl ketone	ND		ug/l	5.0	1.9	1
Methyl isobutyl ketone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.0	0.15	1
Tetrahydrofuran	ND		ug/l	2.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.0	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,3-Dichloropropane	ND		ug/l	2.0	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.16	1
Bromobenzene	ND		ug/l	2.0	0.15	1
n-Butylbenzene	ND		ug/l	2.0	0.19	1
sec-Butylbenzene	ND		ug/l	2.0	0.18	1
tert-Butylbenzene	ND		ug/l	2.0	0.20	1
o-Chlorotoluene	ND		ug/l	2.0	0.22	1
p-Chlorotoluene	ND		ug/l	2.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.35	1
Hexachlorobutadiene	ND		ug/l	0.60	0.22	1
Isopropylbenzene	ND		ug/l	2.0	0.19	1
p-Isopropyltoluene	ND		ug/l	2.0	0.19	1
Naphthalene	ND		ug/l	2.0	0.22	1
n-Propylbenzene	ND		ug/l	2.0	0.17	1

Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2200184-01

Date Collected: 01/03/22 13:35

Client ID: CR-01

Date Received: 01/03/22

Sample Location: CAMBRIDGE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	0.23	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	0.22	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	0.22	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	0.19	1
Diethyl ether	ND		ug/l	2.0	0.16	1
Diisopropyl Ether	ND		ug/l	2.0	0.42	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/05/22 05:31
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG1591109-5					
Methylene chloride	ND		ug/l	2.0	0.68
1,1-Dichloroethane	ND		ug/l	1.0	0.21
Chloroform	ND		ug/l	1.0	0.22
Carbon tetrachloride	ND		ug/l	1.0	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	1.0	0.15
1,1,2-Trichloroethane	ND		ug/l	1.0	0.14
Tetrachloroethene	ND		ug/l	1.0	0.18
Chlorobenzene	ND		ug/l	1.0	0.18
Trichlorofluoromethane	ND		ug/l	2.0	0.16
1,2-Dichloroethane	ND		ug/l	1.0	0.13
1,1,1-Trichloroethane	ND		ug/l	1.0	0.16
Bromodichloromethane	ND		ug/l	1.0	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.40	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.40	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.40	0.14
1,1-Dichloropropene	ND		ug/l	2.0	0.24
Bromoform	ND		ug/l	2.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	1.0	0.20
Ethylbenzene	ND		ug/l	1.0	0.17
Chloromethane	ND		ug/l	2.0	0.20
Bromomethane	ND		ug/l	2.0	0.26
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.0	0.13
1,1-Dichloroethene	ND		ug/l	1.0	0.17
trans-1,2-Dichloroethene	ND		ug/l	1.0	0.16
Trichloroethene	ND		ug/l	1.0	0.18

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/05/22 05:31
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG1591109-5					
1,2-Dichlorobenzene	ND		ug/l	1.0	0.18
1,3-Dichlorobenzene	ND		ug/l	1.0	0.19
1,4-Dichlorobenzene	ND		ug/l	1.0	0.19
Methyl tert butyl ether	ND		ug/l	2.0	0.17
p/m-Xylene	ND		ug/l	2.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.19
1,2-Dichloroethene, Total	ND		ug/l	1.0	0.16
Dibromomethane	ND		ug/l	2.0	0.36
1,2,3-Trichloropropane	ND		ug/l	2.0	0.18
Styrene	ND		ug/l	1.0	0.36
Dichlorodifluoromethane	ND		ug/l	2.0	0.24
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	2.0	0.30
Methyl ethyl ketone	ND		ug/l	5.0	1.9
Methyl isobutyl ketone	ND		ug/l	5.0	0.42
2-Hexanone	ND		ug/l	5.0	0.52
Bromochloromethane	ND		ug/l	2.0	0.15
Tetrahydrofuran	ND		ug/l	2.0	0.52
2,2-Dichloropropane	ND		ug/l	2.0	0.20
1,2-Dibromoethane	ND		ug/l	2.0	0.19
1,3-Dichloropropane	ND		ug/l	2.0	0.21
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	0.16
Bromobenzene	ND		ug/l	2.0	0.15
n-Butylbenzene	ND		ug/l	2.0	0.19
sec-Butylbenzene	ND		ug/l	2.0	0.18
tert-Butylbenzene	ND		ug/l	2.0	0.20
o-Chlorotoluene	ND		ug/l	2.0	0.22

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/05/22 05:31
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG1591109-5					
p-Chlorotoluene	ND		ug/l	2.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.35
Hexachlorobutadiene	ND		ug/l	0.60	0.22
Isopropylbenzene	ND		ug/l	2.0	0.19
p-Isopropyltoluene	ND		ug/l	2.0	0.19
Naphthalene	ND		ug/l	2.0	0.22
n-Propylbenzene	ND		ug/l	2.0	0.17
1,2,3-Trichlorobenzene	ND		ug/l	2.0	0.23
1,2,4-Trichlorobenzene	ND		ug/l	2.0	0.22
1,3,5-Trimethylbenzene	ND		ug/l	2.0	0.22
1,2,4-Trimethylbenzene	ND		ug/l	2.0	0.19
Diethyl ether	ND		ug/l	2.0	0.16
Diisopropyl Ether	ND		ug/l	2.0	0.42
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	61.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130



Lab Control Sample Analysis **Batch Quality Control**

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1591109-3 WG1591109-4								
Methylene chloride	97		100		70-130	3		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	95		93		70-130	2		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	90		95		70-130	5		20
1,1,2-Trichloroethane	99		100		70-130	1		20
Tetrachloroethene	79		78		70-130	1		20
Chlorobenzene	92		96		70-130	4		20
Trichlorofluoromethane	98		97		70-130	1		20
1,2-Dichloroethane	99		100		70-130	1		20
1,1,1-Trichloroethane	92		94		70-130	2		20
Bromodichloromethane	110		110		70-130	0		20
trans-1,3-Dichloropropene	92		94		70-130	2		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	82		84		70-130	2		20
1,1,1,2,2-Tetrachloroethane	110		110		70-130	0		20
Benzene	100		100		70-130	0		20
Toluene	86		87		70-130	1		20
Ethylbenzene	93		95		70-130	2		20
Chloromethane	100		100		70-130	0		20
Bromomethane	120		150	Q	70-130	22	Q	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1591109-3 WG1591109-4								
Vinyl chloride	110		110		70-130	0		20
Chloroethane	140	Q	140	Q	70-130	0		20
1,1-Dichloroethene	98		100		70-130	2		20
trans-1,2-Dichloroethene	94		97		70-130	3		20
Trichloroethene	98		100		70-130	2		20
1,2-Dichlorobenzene	98		96		70-130	2		20
1,3-Dichlorobenzene	97		98		70-130	1		20
1,4-Dichlorobenzene	97		98		70-130	1		20
Methyl tert butyl ether	94		100		70-130	6		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	100		120		70-130	18		20
1,2,3-Trichloropropane	100		110		70-130	10		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	84		82		70-130	2		20
Acetone	120		110		70-130	9		20
Carbon disulfide	95		100		70-130	5		20
Methyl ethyl ketone	110		120		70-130	9		20
Methyl isobutyl ketone	95		100		70-130	5		20
2-Hexanone	100		110		70-130	10		20
Bromochloromethane	100		100		70-130	0		20
Tetrahydrofuran	110		130		70-130	17		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1591109-3 WG1591109-4								
2,2-Dichloropropane	96		97		70-130	1		20
1,2-Dibromoethane	86		90		70-130	5		20
1,3-Dichloropropane	95		100		70-130	5		20
1,1,1,2-Tetrachloroethane	94		96		70-130	2		20
Bromobenzene	90		92		70-130	2		20
n-Butylbenzene	110		110		70-130	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	99		100		70-130	1		20
o-Chlorotoluene	99		100		70-130	1		20
p-Chlorotoluene	96		100		70-130	4		20
1,2-Dibromo-3-chloropropane	91		91		70-130	0		20
Hexachlorobutadiene	91		92		70-130	1		20
Isopropylbenzene	97		100		70-130	3		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	98		98		70-130	0		20
n-Propylbenzene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	95		95		70-130	0		20
1,2,4-Trichlorobenzene	93		91		70-130	2		20
1,3,5-Trimethylbenzene	98		100		70-130	2		20
1,2,4-Trimethylbenzene	99		97		70-130	2		20
Diethyl ether	100		97		70-130	3		20
Diisopropyl Ether	100		110		70-130	10		20
Ethyl-Tert-Butyl-Ether	99		100		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1591109-3 WG1591109-4								
Tertiary-Amyl Methyl Ether	97		100		70-130	3		20
1,4-Dioxane	132	Q	130		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		97		70-130
Toluene-d8	90		92		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	108		104		70-130

SEMIVOLATILES

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2200184-01
Client ID: CR-01
Sample Location: CAMBRIDGE, MA

Date Collected: 01/03/22 13:35
Date Received: 01/03/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 141,8270E
Analytical Date: 01/06/22 15:42
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 01/05/22 08:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Azobenzene	ND		ug/l	2.0	0.37	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.6	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	0.73	0.46	1
Aniline	ND		ug/l	2.0	0.68	1
4-Chloroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.73	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1

Project Name: KENDALL SQUARE**Lab Number:** L2200184**Project Number:** 112C08712-03**Report Date:** 01/17/22**SAMPLE RESULTS**

Lab ID: L2200184-01

Date Collected: 01/03/22 13:35

Client ID: CR-01

Date Received: 01/03/22

Sample Location: CAMBRIDGE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
2,4-Dimethylphenol	ND		ug/l	5.0	3.0	1
2-Nitrophenol	ND		ug/l	10	0.90	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.65	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		15-110
Phenol-d6	72		15-110
Nitrobenzene-d5	94		30-130
2-Fluorobiphenyl	95		30-130
2,4,6-Tribromophenol	74		15-110
4-Terphenyl-d14	91		30-130

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2200184-01
Client ID: CR-01
Sample Location: CAMBRIDGE, MA

Date Collected: 01/03/22 13:35
Date Received: 01/03/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 141,8270E-SIM
Analytical Date: 01/14/22 20:03
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 01/05/22 08:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics by SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.03	J	ug/l	0.10	0.01	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.01	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.02	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.08	1
Hexachlorobenzene	0.02	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: KENDALL SQUARE**Lab Number:** L2200184**Project Number:** 112C08712-03**Report Date:** 01/17/22**SAMPLE RESULTS**

Lab ID: L2200184-01

Date Collected: 01/03/22 13:35

Client ID: CR-01

Date Received: 01/03/22

Sample Location: CAMBRIDGE, MA

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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MCP Semivolatile Organics by SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		15-110
Phenol-d6	47		15-110
Nitrobenzene-d5	74		30-130
2-Fluorobiphenyl	77		30-130
2,4,6-Tribromophenol	77		15-110
4-Terphenyl-d14	61		30-130

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8270E
Analytical Date: 01/06/22 09:44
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 01/05/22 08:19

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1590748-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Azobenzene	ND		ug/l	2.0	0.37
Fluoranthene	ND		ug/l	2.0	0.28
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.97
Hexachloroethane	ND		ug/l	2.0	0.78
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.6
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8270E
Analytical Date: 01/06/22 09:44
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 01/05/22 08:19

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1590748-1					
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	0.73	0.46
Aniline	ND		ug/l	2.0	0.68
4-Chloroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.73
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	3.0
2-Nitrophenol	ND		ug/l	10	0.90
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.65
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8270E
 Analytical Date: 01/06/22 09:44
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 01/05/22 08:19

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1590748-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		15-110
Phenol-d6	68		15-110
Nitrobenzene-d5	73		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	62		15-110
4-Terphenyl-d14	80		30-130

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8270E-SIM
Analytical Date: 01/06/22 15:57
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 01/05/22 08:19

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01 Batch: WG1590750-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.01
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.08
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8270E-SIM
 Analytical Date: 01/06/22 15:57
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 01/05/22 08:19

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01 Batch: WG1590750-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		15-110
Phenol-d6	54		15-110
Nitrobenzene-d5	70		30-130
2-Fluorobiphenyl	73		30-130
2,4,6-Tribromophenol	82		15-110
4-Terphenyl-d14	78		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1590748-2 WG1590748-3								
Acenaphthene	72		67		40-140	7		20
1,2,4-Trichlorobenzene	70		64		40-140	9		20
Hexachlorobenzene	61		63		40-140	3		20
Bis(2-chloroethyl)ether	73		65		40-140	12		20
2-Chloronaphthalene	75		69		40-140	8		20
1,2-Dichlorobenzene	68		60		40-140	13		20
1,3-Dichlorobenzene	66		60		40-140	10		20
1,4-Dichlorobenzene	66		59		40-140	11		20
3,3'-Dichlorobenzidine	70		69		40-140	1		20
2,4-Dinitrotoluene	76		75		40-140	1		20
2,6-Dinitrotoluene	83		81		40-140	2		20
Azobenzene	70		67		40-140	4		20
Fluoranthene	78		79		40-140	1		20
4-Bromophenyl phenyl ether	71		71		40-140	0		20
Bis(2-chloroisopropyl)ether	85		77		40-140	10		20
Bis(2-chloroethoxy)methane	76		68		40-140	11		20
Hexachlorobutadiene	68		62		40-140	9		20
Hexachloroethane	61		55		40-140	10		20
Isophorone	76		66		40-140	14		20
Naphthalene	70		63		40-140	11		20
Nitrobenzene	70		63		40-140	11		20
Bis(2-ethylhexyl)phthalate	98		106		40-140	8		20
Butyl benzyl phthalate	88		91		40-140	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1590748-2 WG1590748-3								
Di-n-butylphthalate	81		82		40-140	1		20
Di-n-octylphthalate	97		100		40-140	3		20
Diethyl phthalate	73		70		40-140	4		20
Dimethyl phthalate	69		68		40-140	1		20
Benzo(a)anthracene	77		77		40-140	0		20
Benzo(a)pyrene	75		72		40-140	4		20
Benzo(b)fluoranthene	88		79		40-140	11		20
Benzo(k)fluoranthene	75		84		40-140	11		20
Chrysene	76		75		40-140	1		20
Acenaphthylene	75		70		40-140	7		20
Anthracene	73		75		40-140	3		20
Benzo(ghi)perylene	78		75		40-140	4		20
Fluorene	75		70		40-140	7		20
Phenanthrene	70		70		40-140	0		20
Dibenzo(a,h)anthracene	74		73		40-140	1		20
Indeno(1,2,3-cd)pyrene	80		71		40-140	12		20
Pyrene	77		78		40-140	1		20
Biphenyl	81		74		40-140	9		20
Aniline	50		46		40-140	8		20
4-Chloroaniline	67		52		40-140	25	Q	20
Dibenzofuran	73		68		40-140	7		20
2-Methylnaphthalene	73		67		40-140	9		20
Acetophenone	78		70		40-140	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1590748-2 WG1590748-3								
2,4,6-Trichlorophenol	79		76		30-130	4		20
2-Chlorophenol	74		65		30-130	13		20
2,4-Dichlorophenol	78		70		30-130	11		20
2,4-Dimethylphenol	67		58		30-130	14		20
2-Nitrophenol	75		68		30-130	10		20
4-Nitrophenol	64		64		30-130	0		20
2,4-Dinitrophenol	49		53		30-130	8		20
Pentachlorophenol	59		61		30-130	3		20
Phenol	69		63		30-130	9		20
2-Methylphenol	75		67		30-130	11		20
3-Methylphenol/4-Methylphenol	76		71		30-130	7		20
2,4,5-Trichlorophenol	78		78		30-130	0		20

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		63		15-110
Phenol-d6	76		68		15-110
Nitrobenzene-d5	76		66		30-130
2-Fluorobiphenyl	78		69		30-130
2,4,6-Tribromophenol	67		61		15-110
4-Terphenyl-d14	82		83		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01 Batch: WG1590750-2 WG1590750-3								
Acenaphthene	88		83		40-140	6		20
2-Chloronaphthalene	90		86		40-140	5		20
Fluoranthene	97		90		40-140	7		20
Hexachlorobutadiene	78		77		40-140	1		20
Naphthalene	81		79		40-140	3		20
Benzo(a)anthracene	94		87		40-140	8		20
Benzo(a)pyrene	94		86		40-140	9		20
Benzo(b)fluoranthene	103		96		40-140	7		20
Benzo(k)fluoranthene	104		93		40-140	11		20
Chrysene	93		85		40-140	9		20
Acenaphthylene	94		90		40-140	4		20
Anthracene	94		88		40-140	7		20
Benzo(ghi)perylene	97		88		40-140	10		20
Fluorene	93		88		40-140	6		20
Phenanthrene	88		83		40-140	6		20
Dibenzo(a,h)anthracene	102		93		40-140	9		20
Indeno(1,2,3-cd)pyrene	102		94		40-140	8		20
Pyrene	97		90		40-140	7		20
2-Methylnaphthalene	85		82		40-140	4		20
Pentachlorophenol	81		79		30-130	3		20
Hexachlorobenzene	89		83		40-140	7		20
Hexachloroethane	75		75		40-140	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01 Batch: WG1590750-2 WG1590750-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		67		15-110
Phenol-d6	67		65		15-110
Nitrobenzene-d5	86		85		30-130
2-Fluorobiphenyl	89		85		30-130
2,4,6-Tribromophenol	98		89		15-110
4-Terphenyl-d14	95		87		30-130

PETROLEUM HYDROCARBONS

Project Name: KENDALL SQUARE**Lab Number:** L2200184**Project Number:** 112C08712-03**Report Date:** 01/17/22**SAMPLE RESULTS**

Lab ID: L2200184-01

Date Collected: 01/03/22 13:35

Client ID: CR-01

Date Received: 01/03/22

Sample Location: CAMBRIDGE, MA

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 131, VPH-18-2.1

Analytical Date: 01/06/22 16:26

Analyst: BAD

Trap: EST, Carboxen 1000&1001

Analytical Column: Restek, RTX-502.2,
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Aqueous Preservative:

Laboratory Provided Preserved
Container

Sample Temperature upon receipt:

Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	100	100.	1
C9-C12 Aliphatics	ND		ug/l	100	100.	1
C9-C10 Aromatics	ND		ug/l	100	100.	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	100	100.	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	100	100.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	92		70-130
2,5-Dibromotoluene-FID	96		70-130



Project Name: KENDALL SQUARE**Lab Number:** L2200184**Project Number:** 112C08712-03**Report Date:** 01/17/22**SAMPLE RESULTS**

Lab ID: L2200184-01
 Client ID: CR-01
 Sample Location: CAMBRIDGE, MA

Date Collected: 01/03/22 13:35
 Date Received: 01/03/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 01/12/22 12:57
 Analyst: MEO

Extraction Method: EPA 3510C
 Extraction Date: 01/10/22 08:45
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 01/11/22

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	100.	1
C19-C36 Aliphatics	ND		ug/l	100	100.	1
C11-C22 Aromatics	ND		ug/l	100	100.	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	100.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	77		40-140

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 131, VPH-18-2.1
Analytical Date: 01/06/22 13:09
Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01 Batch: WG1591780-4					
C5-C8 Aliphatics	ND		ug/l	100	100.
C9-C12 Aliphatics	ND		ug/l	100	100.
C9-C10 Aromatics	ND		ug/l	100	100.
C5-C8 Aliphatics, Adjusted	ND		ug/l	100	100.
C9-C12 Aliphatics, Adjusted	ND		ug/l	100	100.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	90		70-130
2,5-Dibromotoluene-FID	94		70-130

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 01/12/22 11:43
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 01/10/22 08:45
Cleanup Method: EPH-19-2.1
Cleanup Date: 01/11/22

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01 Batch: WG1592261-1					
C9-C18 Aliphatics	ND		ug/l	100	100.
C19-C36 Aliphatics	ND		ug/l	100	100.
C11-C22 Aromatics	ND		ug/l	100	100.
C11-C22 Aromatics, Adjusted	ND		ug/l	100	100.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	64		40-140
o-Terphenyl	59		40-140
2-Fluorobiphenyl	77		40-140
2-Bromonaphthalene	78		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG1591780-2 WG1591780-3								
C5-C8 Aliphatics	94		105		70-130	11		25
C9-C12 Aliphatics	97		109		70-130	12		25
C9-C10 Aromatics	84		94		70-130	12		25
Benzene	85		96		70-130	12		25
Toluene	85		95		70-130	12		25
Ethylbenzene	86		98		70-130	12		25
p/m-Xylene	87		97		70-130	12		25
o-Xylene	86		97		70-130	12		25
Methyl tert butyl ether	84		97		70-130	15		25
Naphthalene	79		94		70-130	17		25
1,2,4-Trimethylbenzene	84		94		70-130	12		25
Pentane	93		105		70-130	12		25
2-Methylpentane	95		107		70-130	12		25
2,2,4-Trimethylpentane	94		106		70-130	12		25
n-Nonane	97		109		30-130	11		25
n-Decane	97		108		70-130	11		25
n-Butylcyclohexane	96		108		70-130	11		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	85		96		70-130
2,5-Dibromotoluene-FID	88		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG1592261-2 WG1592261-3								
C9-C18 Aliphatics	59		53		40-140	11		25
C19-C36 Aliphatics	82		73		40-140	12		25
C11-C22 Aromatics	65		65		40-140	0		25
Naphthalene	63		63		40-140	0		25
2-Methylnaphthalene	64		64		40-140	0		25
Acenaphthylene	62		63		40-140	2		25
Acenaphthene	66		66		40-140	0		25
Fluorene	62		64		40-140	3		25
Phenanthrene	62		64		40-140	3		25
Anthracene	64		65		40-140	2		25
Fluoranthene	64		64		40-140	0		25
Pyrene	63		64		40-140	2		25
Benzo(a)anthracene	63		64		40-140	2		25
Chrysene	62		63		40-140	2		25
Benzo(b)fluoranthene	60		60		40-140	0		25
Benzo(k)fluoranthene	58		59		40-140	2		25
Benzo(a)pyrene	61		62		40-140	2		25
Indeno(1,2,3-cd)Pyrene	56		57		40-140	2		25
Dibenzo(a,h)anthracene	60		61		40-140	2		25
Benzo(ghi)perylene	56		57		40-140	2		25

Lab Control Sample Analysis**Batch Quality Control****Project Name:** KENDALL SQUARE**Lab Number:** L2200184**Project Number:** 112C08712-03**Report Date:** 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG1592261-2 WG1592261-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	71		63		40-140
o-Terphenyl	59		59		40-140
2-Fluorobiphenyl	71		73		40-140
2-Bromonaphthalene	72		74		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

METALS

Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2200184-01

Date Collected: 01/03/22 13:35

Client ID: CR-01

Date Received: 01/03/22

Sample Location: CAMBRIDGE, MA

Field Prep: Not Specified

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											
Antimony, Total	ND		mg/l	0.00400	0.00042	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Arsenic, Total	0.00093	J	mg/l	0.00100	0.00016	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Chromium, Total	0.00065	J	mg/l	0.00100	0.00017	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Copper, Total	0.00344		mg/l	0.00100	0.00038	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Iron, Total	0.448		mg/l	0.050	0.009	1	01/11/22 09:47	01/11/22 22:01	EPA 3005A	19,200.7	MC
Lead, Total	0.00116		mg/l	0.00100	0.00034	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Mercury, Total	ND		mg/l	0.00020	0.00009	1	01/11/22 09:52	01/15/22 16:41	EPA 245.1	3,245.1	NB
Nickel, Total	0.00065	J	mg/l	0.00200	0.00055	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Zinc, Total	0.02470		mg/l	0.01000	0.00341	1	01/11/22 09:47	01/16/22 18:20	EPA 3005A	3,200.8	SV
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	74.8		mg/l	0.660	NA	1	01/11/22 09:47	01/11/22 22:01	EPA 3005A	19,200.7	MC



Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

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 Batch: WG1592487-1										
Iron, Total	ND		mg/l	0.050	0.009	1	01/11/22 09:47	01/11/22 19:44	19,200.7	MC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01 Batch: WG1592487-1										
Hardness	ND		mg/l	0.660	NA	1	01/11/22 09:47	01/11/22 19:44	19,200.7	MC

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 Batch: WG1592491-1										
Antimony, Total	ND		mg/l	0.00400	0.00042	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Arsenic, Total	ND		mg/l	0.00100	0.00016	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Copper, Total	ND		mg/l	0.00100	0.00038	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Lead, Total	ND		mg/l	0.00100	0.00034	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	01/11/22 09:47	01/16/22 16:01	3,200.8	SV

Prep Information

Digestion Method: EPA 3005A



Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

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 Batch: WG1592492-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	01/11/22 09:52	01/15/22 16:03	3,245.1	NB

Prep Information

Digestion Method: EPA 245.1



Lab Control Sample Analysis

Batch Quality Control

Project Name: KENDALL SQUARE

Project Number: 112C08712-03

Lab Number: L2200184

Report Date: 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1592487-2								
Iron, Total	103		-		85-115	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 Batch: WG1592487-2								
Hardness	104		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1592491-2								
Antimony, Total	96		-		85-115	-		
Arsenic, Total	102		-		85-115	-		
Cadmium, Total	103		-		85-115	-		
Chromium, Total	108		-		85-115	-		
Copper, Total	104		-		85-115	-		
Lead, Total	103		-		85-115	-		
Nickel, Total	104		-		85-115	-		
Selenium, Total	102		-		85-115	-		
Silver, Total	110		-		85-115	-		
Zinc, Total	105		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1592492-2								
Mercury, Total	100		-		85-115	-		

INORGANICS & MISCELLANEOUS

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

SAMPLE RESULTS

Lab ID: L2200184-01
Client ID: CR-01
Sample Location: CAMBRIDGE, MA

Date Collected: 01/03/22 13:35
Date Received: 01/03/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
pH (H)	7.3		SU	-	NA	1	-	01/04/22 02:15	121,4500H+-B	KA
Nitrogen, Ammonia	0.189		mg/l	0.075	0.024	1	01/12/22 03:45	01/12/22 21:05	121,4500NH3-BH	AT
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/04/22 01:40	01/04/22 01:58	1,7196A	KA



Project Name: KENDALL SQUARE

Lab Number: L2200184

Project Number: 112C08712-03

Report Date: 01/17/22

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 Batch: WG1590135-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/04/22 01:40	01/04/22 01:57	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1592991-1										
Nitrogen, Ammonia	0.025	J	mg/l	0.075	0.024	1	01/12/22 03:45	01/12/22 20:57	121,4500NH3-BH	AT

Lab Control Sample Analysis**Batch Quality Control****Project Name:** KENDALL SQUARE**Project Number:** 112C08712-03**Lab Number:** L2200184**Report Date:** 01/17/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1590135-2								
Chromium, Hexavalent	107		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1590155-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1592991-2								
Nitrogen, Ammonia	100		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

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 QC Batch ID: WG1590135-4 QC Sample: L2200184-01 Client ID: CR-01												
Chromium, Hexavalent	ND	0.1	0.105	105		-	-		85-115	-		20

Lab Duplicate Analysis
*Batch Quality Control***Project Name:** KENDALL SQUARE**Project Number:** 112C08712-03**Lab Number:** L2200184**Report Date:** 01/17/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1590135-3 QC Sample: L2200184-01 Client ID: CR-01						
Chromium, Hexavalent	ND	ND	mg/l	NC		20

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Serial_No:01172220:58
Lab Number: L2200184
Report Date: 01/17/22

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(*)
L2200184-01A	Vial HCl preserved	A	NA		2.1	Y	Absent		MCP-8260-21(14)
L2200184-01B	Vial HCl preserved	A	NA		2.1	Y	Absent		MCP-8260-21(14)
L2200184-01C	Vial HCl preserved	A	NA		2.1	Y	Absent		MCP-8260-21(14)
L2200184-01D	Vial HCl preserved	A	NA		2.1	Y	Absent		VPH-18(14)
L2200184-01E	Vial HCl preserved	A	NA		2.1	Y	Absent		VPH-18(14)
L2200184-01F	Vial HCl preserved	A	NA		2.1	Y	Absent		VPH-18(14)
L2200184-01G	Plastic 250ml unpreserved	A	7	7	2.1	Y	Absent		HEXCR-7196(1),PH-4500(.01)
L2200184-01H	Plastic 250ml HNO3 preserved	A	<2	<2	2.1	Y	Absent		CD-2008T(180),NI-2008T(180),ZN-2008T(180),HARDU(180),CU-2008T(180),FE-UI(180),AS-2008T(180),AG-2008T(180),HG-U(28),SE-2008T(180),PB-2008T(180),SB-2008T(180),CR-2008T(180)
L2200184-01I	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		MCP-8270SIM-21-LVI(7),MCP-8270-21-LVI(7)
L2200184-01J	Amber 250ml unpreserved	A	7	7	2.1	Y	Absent		MCP-8270SIM-21-LVI(7),MCP-8270-21-LVI(7)
L2200184-01K	Plastic 500ml H2SO4 preserved	A	<2	<2	2.1	Y	Absent		NH3-4500(28)
L2200184-01L	Amber 1000ml HCl preserved	A	<2	<2	2.1	Y	Absent		EPH-20(14)
L2200184-01M	Amber 1000ml HCl preserved	A	<2	<2	2.1	Y	Absent		EPH-20(14)

Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

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: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

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.

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'.

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.

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.)

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 Identified Compounds (TICs).
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

Data Qualifiers

- 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: KENDALL SQUARE
Project Number: 112C08712-03

Lab Number: L2200184
Report Date: 01/17/22

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.
- 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.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 131 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, February 2018, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, June 1, 2018.
- 135 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, December 2019, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, March 1, 2020.
- 141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

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

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

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

EPA 332: Perchlorate; **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), **EPA 600/4-81-045:** PCB-Oil.

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

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 1/13/20

ALPHA Job #: L27 00/84

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: Tetra Tech
Address: 5 Industrial Way, Ste. 2B
Salem, NH 03079

Phone: jamie.greusen@tetratech.com

Email: (603) 328-1476

Additional Project Information:

Project Information

Project Name:	Kendall Square
Project Location:	Cambridge, MA
Project #:	112C08712 03
Project Manager:	James Greacen
ALPHA Quote #:	

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-authorized)

Date Due:

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client Info	PO #: 1183804
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Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☒ No CT RCP Analytical Methods
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☒ Yes ☐ No NPDES RGP
☐ Other State /Fed Program Criteria

ANALYSIS		SAMPLE INFO	
VOC: ☒ 8260 ☐ 624 ☐ 524.2		Filtration	
SVOC: ☒ A8N ☐ PAH		☐ Field	
METALS: ☐ MCP 13 ☒ MCP 14 ☐ RCP 15		☐ Lab to do	
METALS: ☐ RCRA5 ☐ RCRA8		Preservation	
EPH: ☐ Ranges & Targets ☒ Ranges Only		☐ Lab to do	
VPH: ☐ Ranges & Targets ☒ Ranges Only			
☐ PCB ☐ PEST			
TPH: ☐ Quant Only ☐ Fingerprint			
Hexavalent Chromium EPA 71916			
pH-Hydrogen Ion CH4500			
Ammonia/Nitrogen SM4500			
Total hardness			
Sample Comments			

—

[illegible]

Container Type

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

Preservative

A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H = Na₂S₂O₃
I= Ascorbic Acid
J = NH₄Cl
K= Zn Acetate
O= Other

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

Katie Puckett
The Puckett

1/3/2022
15:43

[Signature]

1538

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Method Blank Summary

Form 4

Volatiles

Client	: Tetra Tech, Inc.	Lab Number	: L2200184
Project Name	: KENDALL SQUARE	Project Number	: 112C08712-03
Lab Sample ID	: WG1591109-5	Lab File ID	: J220105B06
Instrument ID	: JACK2		
Matrix	: LIQUID	Analysis Date	: 01/05/22 05:31

Client Sample No.	Lab Sample ID	Analysis Date
WG1591109-3LCS	WG1591109-3	01/05/22 04:10
WG1591109-4LCSD	WG1591109-4	01/05/22 04:51
CR-01	L2200184-01	01/05/22 09:38

Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KENDALL SQUARE
 Instrument ID : JACK2
 Lab File ID : J220105B02
 Sample No : WG1591109-2
 Channel :

Lab Number : L2200184
 Project Number : 112C08712-03
 Calibration Date : 01/05/22 04:10
 Init. Calib. Date(s) : 12/23/21 12/23/21
 Init. Calib. Times : 08:01 12:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	81	0
Dichlorodifluoromethane	0.62	0.524	-	15.5	20	67	0
Chloromethane	0.619	0.633	-	-2.3	20	82	0
Vinyl chloride	0.655	0.75	-	-14.5	20	90	0
Bromomethane	10	12.289	-	-22.9*	20	125	0
Chloroethane	0.399	0.551	-	-38.1*	20	107	0
Trichlorofluoromethane	0.892	0.87	-	2.5	20	75	0
Ethyl ether	0.305	0.308	-	-1	20	87	0
1,1-Dichloroethene	0.461	0.451	-	2.2	20	76	0
Carbon disulfide	1.299	1.239	-	4.6	20	77	0
Freon-113	0.524	0.526	-	-0.4	20	78	0
Acrolein	0.087	0.095	-	-9.2	20	91	0
Methylene chloride	0.563	0.547	-	2.8	20	81	0
Acetone	0.23	0.288	-	-25.2*	20	106	0
trans-1,2-Dichloroethene	0.54	0.505	-	6.5	20	77	0
Methyl acetate	0.497	0.519	-	-4.4	20	92	0
Methyl tert-butyl ether	1.637	1.538	-	6	20	80	0
tert-Butyl alcohol	0.068	0.087	-	-27.9*	20	120	0
Diisopropyl ether	2.106	2.229	-	-5.8	20	89	0
1,1-Dichloroethane	1.06	1.095	-	-3.3	20	83	0
Halothane	0.448	0.444	-	0.9	20	81	0
Acrylonitrile	0.223	0.258	-	-15.7	20	97	0
Ethyl tert-butyl ether	1.774	1.752	-	1.2	20	85	0
Vinyl acetate	1.475	1.665	-	-12.9	20	97	0
cis-1,2-Dichloroethene	0.604	0.597	-	1.2	20	81	0
2,2-Dichloropropane	0.87	0.835	-	4	20	81	0
Bromochloromethane	0.294	0.294	-	0	20	81	0
Cyclohexane	1.013	1.001	-	1.2	20	79	0
Chloroform	1.055	1.057	-	-0.2	20	83	0
Ethyl acetate	0.713	0.816	-	-14.4	20	99	0
Carbon tetrachloride	0.77	0.728	-	5.5	20	78	0
Tetrahydrofuran	0.253	0.272	-	-7.5	20	88	0
Dibromofluoromethane	0.287	0.31	-	-8	20	87	0
1,1,1-Trichloroethane	0.905	0.833	-	8	20	75	0
2-Butanone	0.358	0.41	-	-14.5	20	103	0
1,1-Dichloropropene	0.781	0.78	-	0.1	20	81	0
Benzene	2.24	2.268	-	-1.2	20	85	0
tert-Amyl methyl ether	1.623	1.572	-	3.1	20	84	0
1,2-Dichloroethane-d4	0.367	0.345	-	6	20	77	0
1,2-Dichloroethane	0.857	0.848	-	1.1	20	83	0
Methyl cyclohexane	1.041	1.008	-	3.2	20	80	0
Trichloroethene	0.594	0.579	-	2.5	20	80	0
Dibromomethane	0.38	0.385	-	-1.3	20	88	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KENDALL SQUARE
 Instrument ID : JACK2
 Lab File ID : J220105B02
 Sample No : WG1591109-2
 Channel :

Lab Number : L2200184
 Project Number : 112C08712-03
 Calibration Date : 01/05/22 04:10
 Init. Calib. Date(s) : 12/23/21 12/23/21
 Init. Calib. Times : 08:01 12:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.607	0.668	-	-10	20	90	0
2-Chloroethyl vinyl ether	0.372	0.402	-	-8.1	20	92	0
Bromodichloromethane	0.835	0.886	-	-6.1	20	89	0
1,4-Dioxane	0.00575	0.00762*	-	-32.5*	20	98	0
cis-1,3-Dichloropropene	0.968	1	-	-3.3	20	86	0
Chlorobenzene-d5	1	1	-	0	20	95	0
Toluene-d8	1.138	1.023	-	10.1	20	83	0
Toluene	1.503	1.286	-	14.4	20	83	0
4-Methyl-2-pentanone	0.254	0.241	-	5.1	20	97	0
Tetrachloroethene	0.721	0.568	-	21.2*	20	75	0
trans-1,3-Dichloropropene	0.879	0.809	-	8	20	93	0
Ethyl methacrylate	0.793	0.735	-	7.3	20	93	0
1,1,2-Trichloroethane	0.445	0.442	-	0.7	20	99	0
Chlorodibromomethane	0.618	0.558	-	9.7	20	94	0
1,3-Dichloropropane	0.896	0.85	-	5.1	20	93	0
1,2-Dibromoethane	0.54	0.465	-	13.9	20	83	0
2-Hexanone	0.572	0.592	-	-3.5	20	103	0
Chlorobenzene	1.694	1.554	-	8.3	20	88	0
Ethylbenzene	2.895	2.689	-	7.1	20	88	0
1,1,1,2-Tetrachloroethane	0.602	0.57	-	5.3	20	95	0
p/m Xylene	1.203	1.098	-	8.7	20	88	0
o Xylene	1.183	1.078	-	8.9	20	88	0
Styrene	1.986	1.908	-	3.9	20	90	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	87	0
Bromoform	0.713	0.588	-	17.5	20	87	0
Isopropylbenzene	4.997	4.867	-	2.6	20	87	0
4-Bromofluorobenzene	0.783	0.746	-	4.7	20	86	0
Bromobenzene	1.276	1.156	-	9.4	20	83	0
n-Propylbenzene	5.754	5.867	-	-2	20	91	0
1,4-Dichlorobutane	1.651	1.73	-	-4.8	20	98	0
1,1,2,2-Tetrachloroethane	1.12	1.228	-	-9.6	20	100	0
4-Ethyltoluene	4.977	4.888	-	1.8	20	88	0
2-Chlorotoluene	3.827	3.785	-	1.1	20	89	0
1,3,5-Trimethylbenzene	4.152	4.084	-	1.6	20	87	0
1,2,3-Trichloropropane	0.968	0.993	-	-2.6	20	93	0
trans-1,4-Dichloro-2-buten	10	9.735	-	2.7	20	102	0
4-Chlorotoluene	3.461	3.329	-	3.8	20	88	0
tert-Butylbenzene	3.566	3.526	-	1.1	20	87	0
1,2,4-Trimethylbenzene	4.141	4.09	-	1.2	20	88	0
sec-Butylbenzene	5.525	5.597	-	-1.3	20	89	0
p-Isopropyltoluene	4.616	4.668	-	-1.1	20	88	0
1,3-Dichlorobenzene	2.467	2.396	-	2.9	20	87	0
1,4-Dichlorobenzene	2.463	2.383	-	3.2	20	88	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Tetra Tech, Inc.
 Project Name : KENDALL SQUARE
 Instrument ID : JACK2
 Lab File ID : J220105B02
 Sample No : WG1591109-2
 Channel :

Lab Number : L2200184
 Project Number : 112C08712-03
 Calibration Date : 01/05/22 04:10
 Init. Calib. Date(s) : 12/23/21 12/23/21
 Init. Calib. Times : 08:01 12:46

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	2.752	2.683	-	2.5	20	88	0
n-Butylbenzene	3.934	4.179	-	-6.2	20	94	0
1,2-Dichlorobenzene	2.297	2.259	-	1.7	20	89	0
1,2,4,5-Tetramethylbenzene	3.903	3.856	-	1.2	20	91	0
1,2-Dibromo-3-chloropropan	0.223	0.204	-	8.5	20	86	0
1,3,5-Trichlorobenzene	1.729	1.591	-	8	20	82	0
Hexachlorobutadiene	0.615	0.558	-	9.3	20	82	0
1,2,4-Trichlorobenzene	1.421	1.322	-	7	20	85	0
Naphthalene	3.732	3.66	-	1.9	20	92	0
1,2,3-Trichlorobenzene	1.281	1.218	-	4.9	20	85	0

* Value outside of QC limits.

