

**Appendix 7-G: Champlain Hudson Power Express Pilot Study
Summary of Results (Voluntary Pump Study)**

CHAMPLAIN HUDSON POWER EXPRESS

PILOT TEST SUMMARY OF RESULTS



APRIL 2023

EXECUTIVE SUMMARY

CHPE LLC (“CHPE”) and the Hudson River Drinking Water Intermunicipal Council (“Hudson 7”) developed a set of studies, above and beyond those required by our permits, to determine the potential impact of the Champlain Hudson Power Express project’s jet plow installation on the public water systems located within the Hudson River. One of these studies, as requested by the Hudson 7, involved the installation of a pump in the vicinity of the jet plow pre-installation trials in order to simulate conditions public water supply intakes might experience during project construction. The location of the jet plow pre-trial study was selected by CHPE and the Hudson 7 after reviewing multiple potential sites to confirm identify a site that would be appropriately representative of conditions at the Hudson 7 intakes. A pump was placed on a barge located 160 feet from the pre-installation trial, the closest point at which cable installation might occur, in order to simulate a public water supply intake. Water samples were taken the entire length of the testing location during the jet plow operation. The jet plow trial covered a distance of one-half mile and involved operating the jet plow at different rates of installation.

In addition to recommending the initial set of testing protocols used to complete the pilot testing and working with TDI to finalize the protocols that were used. Hudson 7 water operator members joined the testing teams on the testing barge as the pilot testing was underway.

Prior to conducting the jet plow pump study, threshold values for the constituents of concern were defined based on recommendations by the Hudson 7, as well as those contained in the project’s Water Quality Certificate. Field and laboratory testing found that the values for turbidity, pH, total organic compounds, and volatile organics were well below the threshold levels established. Existing state guidance, including state drinking water standards, indicate that the findings for semi-volatile organics, metals, and PCBs are within the acceptable range of values. CHPE will reach out to public water system plant operators to discuss these results and next steps as we work toward construction and mitigating impacts on their systems.

1. INTRODUCTION

In early 2022, CHPE LLC (“CHPE”), the permittee for the Champlain Hudson Power Express project (“Project”) and the Hudson River Drinking Water Intermunicipal Council (“Hudson 7” or “Council”) initiated a series of discussions related to the potential impact of the Project construction on the five drinking water plants which relied upon water from the Hudson River. This conversation focused on the Hudson 7’s “Proposed Testing & Monitoring Protocols to Prepare for Cable Installation in the Hudson River near Drinking Water Intakes.” One area of interest was the development of studies that built upon the Article VII-required pre-installation testing of the jet plow that would be utilized to install the cables during project construction. Those studies were incorporated into a preliminary work plan (see Appendix 1). This report provides a summary of the results of the Pilot Testing portion of these protocols. A second report will be developed to discuss the outcome of the Sediment Sampling section.

2. METHODOLOGY

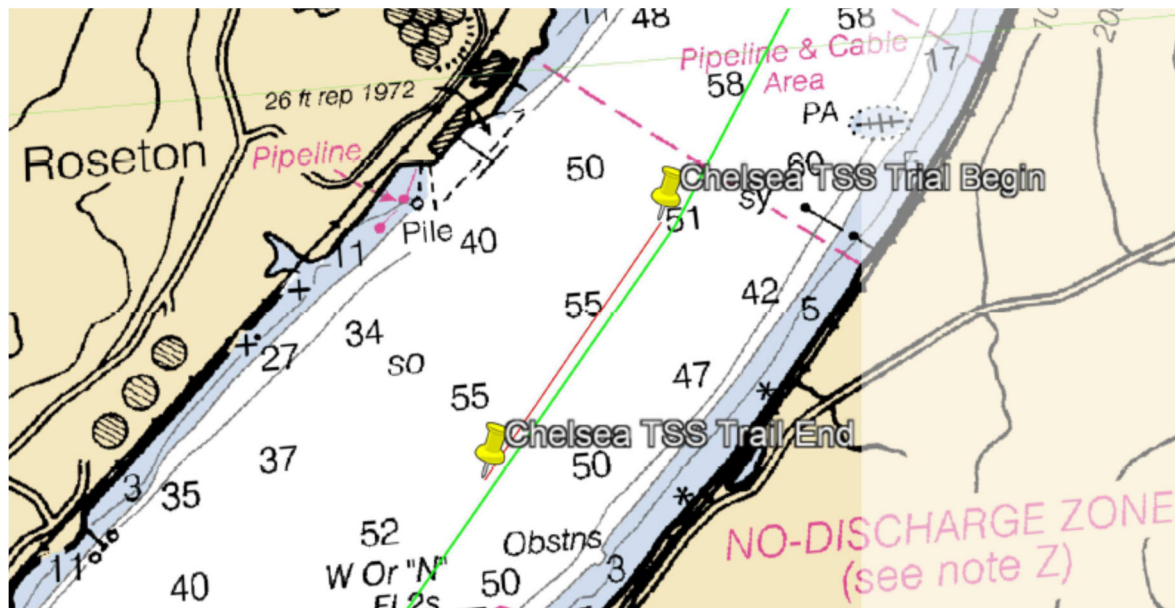
As the complete methodology for the study is provided in the protocols (Appendix 1), this section is intended to provide a summary for ease of review of the results.

a. Selection of Pilot Study Location

The location of the jet plow pilot study was selected after reviewing multiple potential sites in collaboration with the Hudson 7. The original preferred location was in the vicinity of the Rhinebeck intake due to its water storage capacity but existing underwater infrastructure was located in this area. Similarly, testing in the vicinity of Poughkeepsie was also considered but ultimately rejected due to the same constraints. The Hudson 7 and CHPE agreed that a pump could be used to simulate the operation of a public water system intake during the jet plow operation. This approach provides a safe, reliable method for understanding the potential impacts of the jet plow without posing any risk to or inconveniencing the operation of a public water system.

The Hudson 7 requested that the pilot test be conducted in an area where sediment samples had previously been completed and sediment conditions were similar to what would be expected at the intakes for the five water treatment plants. After reviewing multiple sites, the selected location of the test was chosen in the town of Chelsea, south of Poughkeepsie (see Figure 1). Sediment sampling had occurred as part of the Marine Route Survey completed in 2010, which would allow for a correlation between the results of this portion of the study and the Sediment Sampling being completed as a separate phase. The Hudson 7's technical consultant concurred that the available sediment would be representative of conditions at the Hudson 7 water treatment plants.

Figure 1: Pilot Study Location



b. Jet Plow Procedures

Caldwell Marine International (“CMI”) transported and operated the jet plow. In accordance with the protocols, the agreed-upon length of the trial would be one-half mile or 2640 feet in length. The target speeds were 300 ft/hour for the first and last 1/8 of a mile and 600 ft/hour for the middle section of the trial to reflect a maximum speed that would be higher than those planned to be utilized during actual cable installation and to use this higher speed close to the “intake” with a goal of simulating an overly conservative scenario for cable installation. Typical plow speeds for cable installation might range from 100 to 400 feet per hour, depending on riverbed soil conditions.

c. Water Quality Sampling

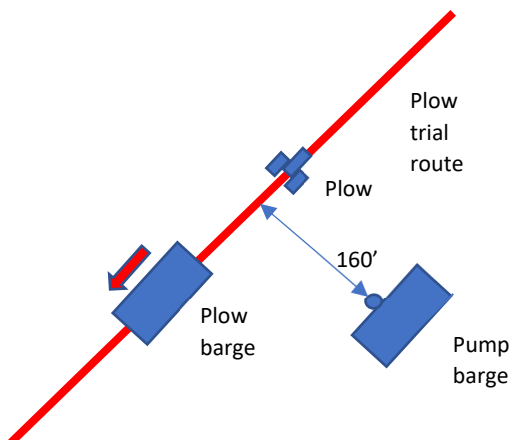
In-River Sampling

Hudson River water was collected from five locations on September 9, 2022. These five samples were collected by Aqua Survey Incorporated (“ASI”) in a small vessel situated approximately five hundred (500) feet down river from the jet plow. The first location was a quarter mile upstream of the intake pump (see below), then worked downstream to an eighth of a mile upstream, then nearest the intake pump, an eighth of a mile downstream and lastly a quarter mile downstream of the intake pump. Sampling commenced at the first upstream site just prior to the jet plow trial start. Water was collected into a clean HDPE container prior to recording readings and/or placing in laboratory-provided labeled containers. Water samples were placed in coolers on ice, transported to the ASI laboratory the same day as the trial and picked up by Alpha Analytical couriers on September 12, 2022, following chain of custody procedures.

Intake Pump Sampling

CMI set up a stationary second barge within 160-feet of the pilot trial route and mobilized a pump capable of a maximum pumping speed of 2000 gallons per minute to simulate a H7 water intake (see Figure 2). Piping was extended to approximately four (4) feet off of the river bottom. A valve was attached to the pump so that water quality samples could be collected on the barge. Hudson 7 representatives were present onboard the pumping barge for the initial portion of the trials to witness the sampling activities.

Figure 2: Representation of Pump Sampling Layout



Two tasks occurred on the barge during this trial. First, water samples were supposed to be collected for analytical analysis every 30 minutes. Water samples for the pump sampling were collected, stored, and processed in the same manner as for the In-River Sampling. For the second task, water quality readings were recorded every 15 minutes using a YSI 6920 multiparameter meter. Turbidity (NTU) and pH were the parameters recorded.

d. Laboratory analysis

Water samples from both the In-River and Intake Pump tasks were analyzed for total suspended solids (“TSS”) and chemical parameters. The selected parameters for testing are listed in the protocols provided in Appendix 1, including Table 1 of the 5-1.52 Tables of Subpart 5-1 of the NYCRR.

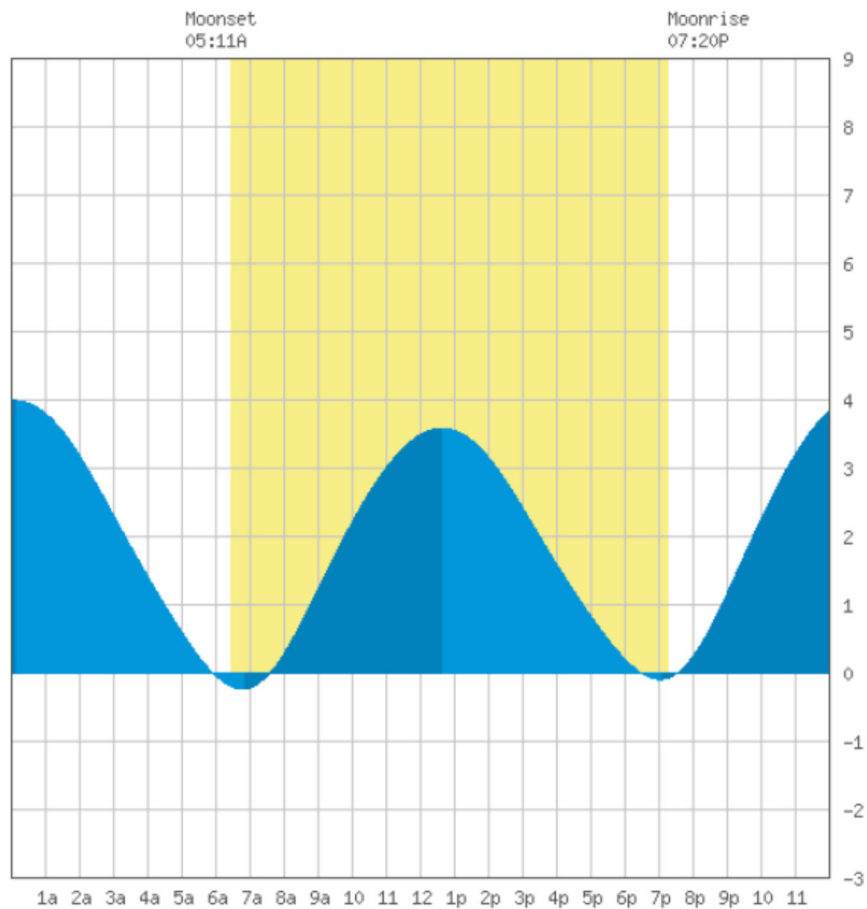
3. RESULTS

CMI arrived at the testing site on September 7th, 2022. While conducting an equipment check, CMI determined that there was an issue with the operating software and the trial did not start until Friday, September 9, 2022. The following describes the work as completed.

a. Site Conditions

Mobilization began in early hours of September 9th. Weather conditions were fair, with recorded air temperatures ranging from 55 F at 0453¹ to 82 F at 1753. Based on tidal charts (see Figure 3), the low tide period was at 0647 and 1902, with the high tide at 1236.

Figure 3: Tide Charts for Poughkeepsie on September 9, 2022



¹ Military time will be utilized throughout this report (e.g., 4:45 am = 0445; 3:00 PM = 1500)

b. Jet Plow Procedure

On September 9th, 2022, the barge carrying the jet plow began the trial by moving into the launch position with kedge² (bow) and stern anchors placed with assistance of a tug. The jet plow was moved to the stern of the vessel where all necessary connections (i.e., hydraulics, plow umbilical and the tow wire) were made and a systems check completed. The plow was then lowered to the river bottom and divers confirmed the condition of the plow, the connections, and the river bottom. After deploying the jet plow's blade, the barge was then pulled forward through the use of the anchors.³ Technical issues involving both the software and positioning the jet plow were resolved following a two-hour delay.

The pilot test began at 0935, with a jet plow burial depth of approximately 7.6 feet and plow speed of approximately 300 ft/hour. At the 1/8 mile mark, the installation speed increased to approximately 600 ft/hour. Soon afterward, CMI reported the following:

“hard bottom conditions were encountered from 950’ mark to the 1550’ mark along the route. During this period the blade was graded up/down in order to obtain forward progress. At the 1310’ mark 50’ prior to the simulated water intake, the plow encountered particularly hard bottom to which the plow blade was graded completely out momentarily. This allowed CMI to negotiate an unknown obstacle hindering the plow and resume with operations at the trials require burial depth.”

A post-trial investigation by divers found the hard bottom location to have multiple rocks and large timbers buried in the riverbed.

Following this interruption, the jet plow continued forward with an installation speed of approximately 600 feet /hour and burial depth of approximately 7.6 feet. For the final 1/8 mile, the speed was reduced to approximately 300 feet /hour. The final routing for the jet plow trial is provided in Figure 4.

A plan and profile drawing of the installation is provided as Figure 5. The plow was at the required depth for the entire length except twice for a short time due to the hard bottom described above.

² A kedge anchor is dropped some distance off the bow of the vessel and is used to draw a vessel forward by hauling in on the cable of this anchor.

³ During actual installation, the barge would be self-propelled but that was not possible given the relatively short distance of the pilot test (one-half mile).

Figure 4: Jet Plow Trial Route as Completed

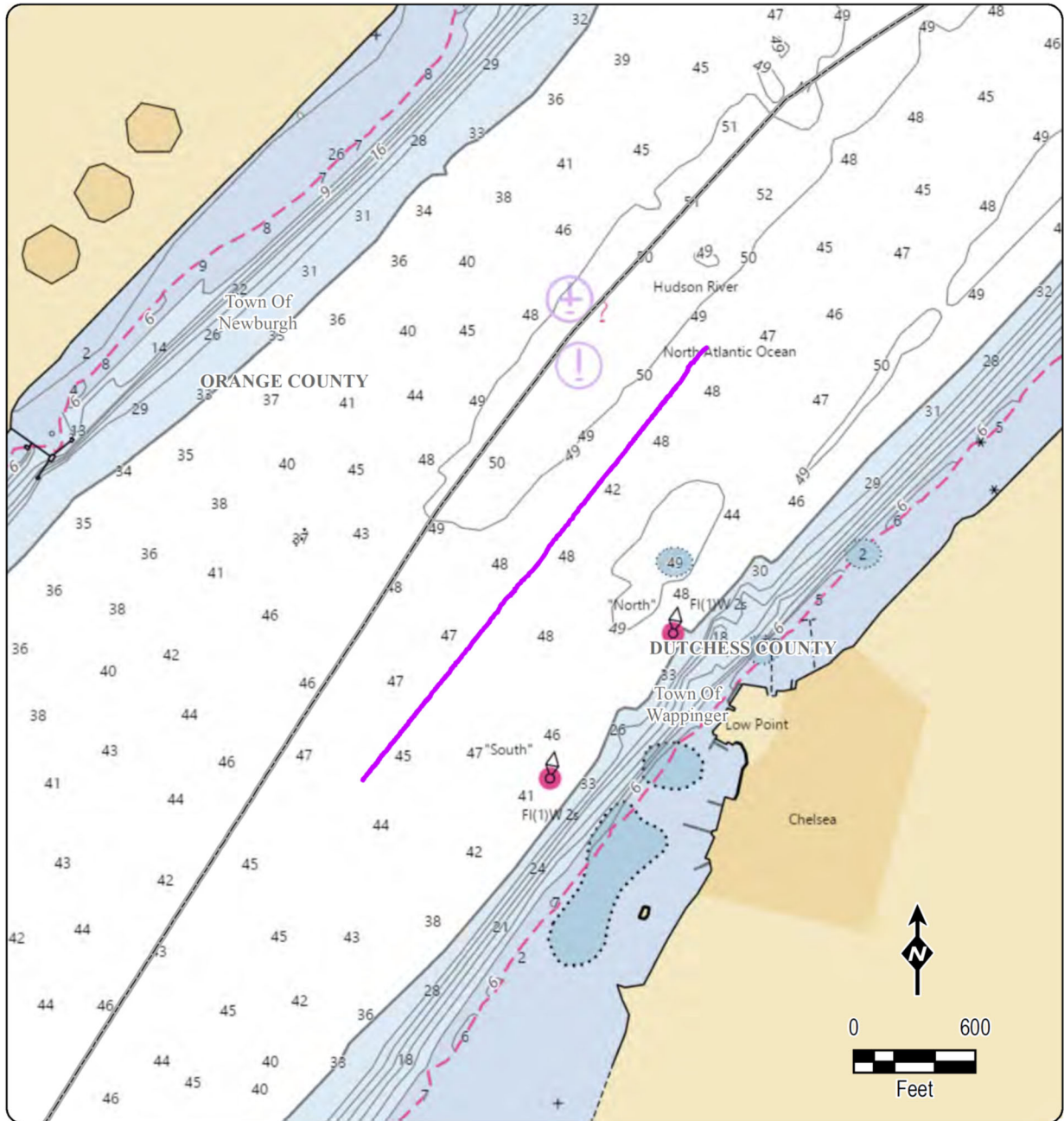
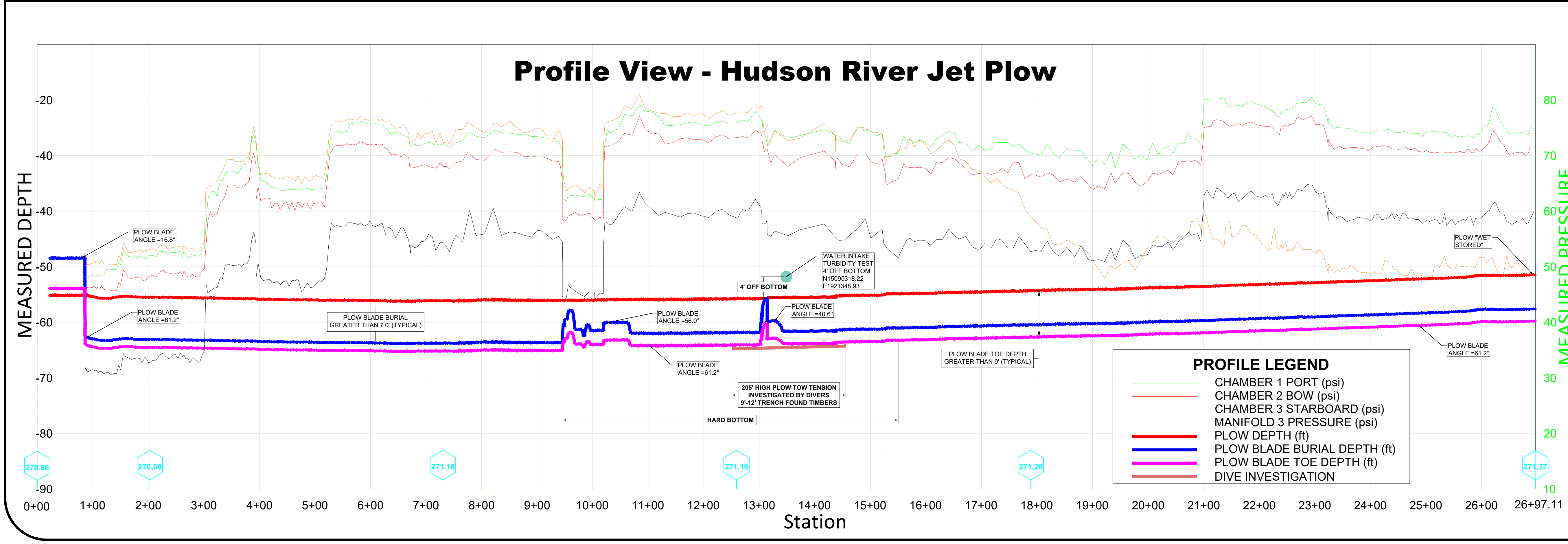
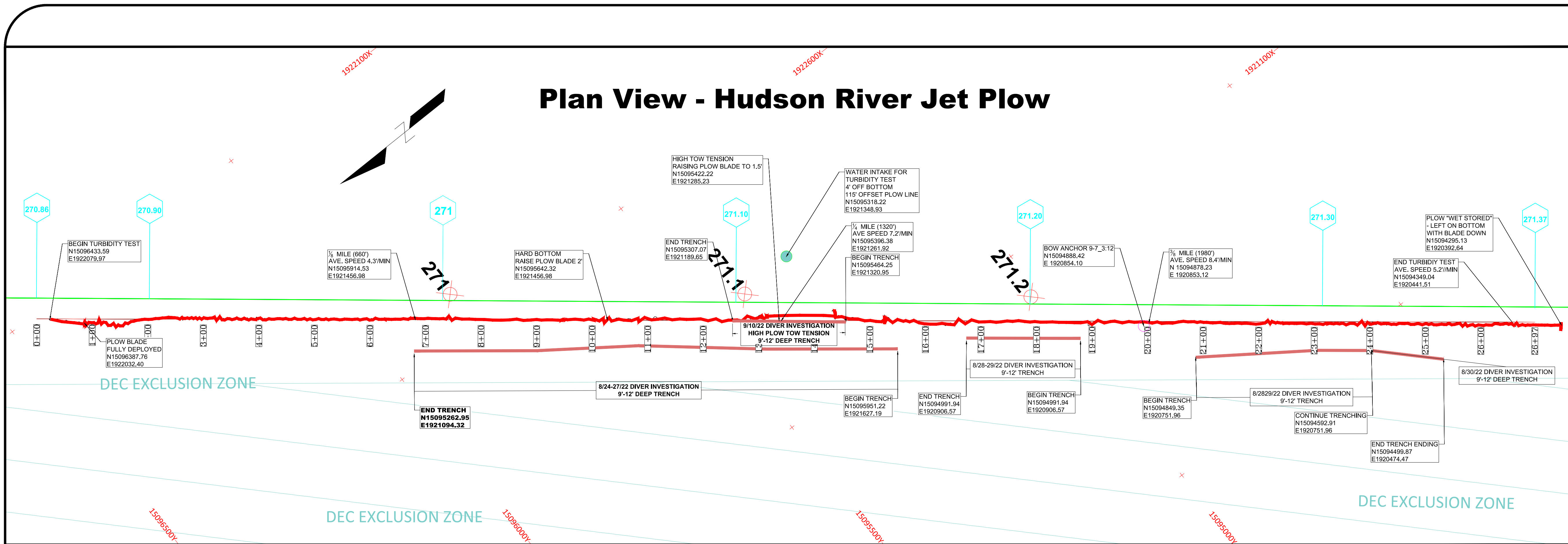


Figure 5: Plan and Profile View



Area Map

WORK AREA

General Notes

PLAN VIEW LEGEND

- PROPOSED CABLE ROUTE
- PLOW TRACK
- DIVER JETTED TRENCH
- NEW ALIGNMENT FOR PLOW TRIAL
- PROPOSED CABLE ROUTE WITH MP FROM ORIGINAL PLANS
- UTILITY INVESTIGATION ITEM NAMED BY MP FROM ORIGINAL PLANS
- MULTIBEAM SURVEY BATHYMETRIC CONTOURS AT TWO FOOT INTERVALS ABOVE NAVD88

GEODETC INFORMATION
 HORIZONTAL DATUM: NAD83
 PROJECTION: UTM ZONE 18N, US FT.
 VERTICAL DATUM IS NAVD88

No.	Revision/Issue	Date

Caldwell Marine INTERNATIONAL
 Marine International, LLC.
 1333 Campus Parkway
 Wall Township, NJ 07753
 732.557.6100

Project Name & Location
Champlain Hudson Power Express - TSS Trials
 Upper & Lower Lake Champlain, Hudson River
 New York
 Jet Plow Trials - Hudson River

Client	NKT	Sheet	3 of 3
Date	October 2022		
Scale	1"=100'		

c. Water Quality Sampling

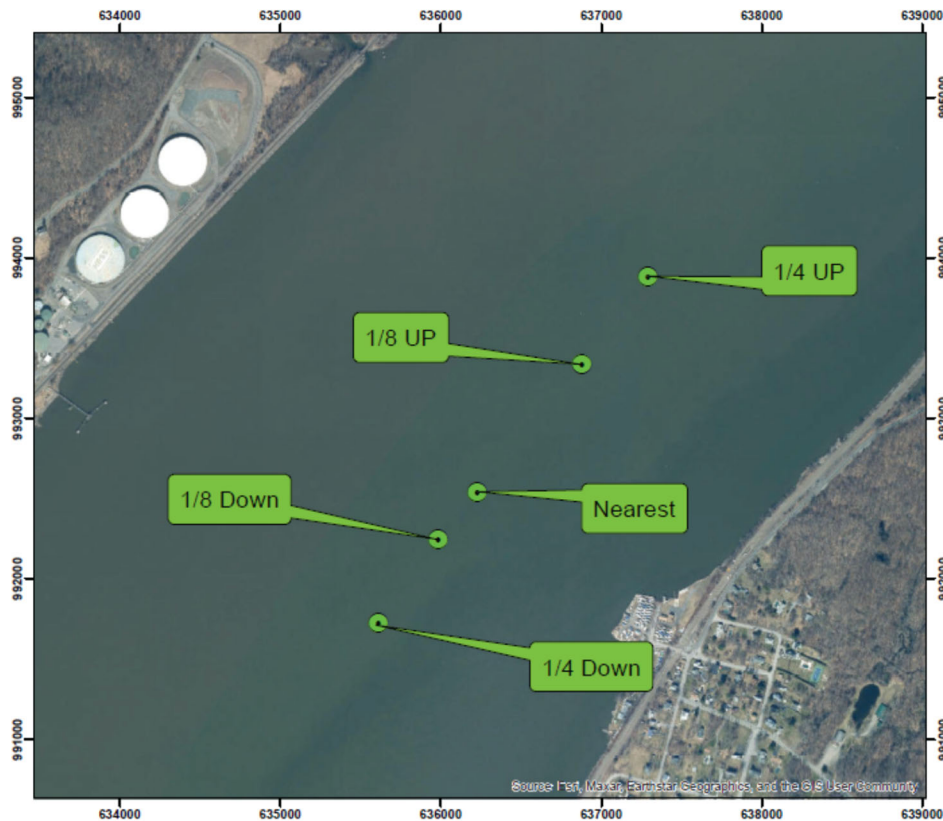
River Sampling

Hudson River water was collected from five locations on September 9, 2022 (see Table 1). There was a delay in communicating to the sampling vessel that the jet plow barge was at the nearest point to the intake pump, which was attributed to the CMI focusing on reestablishing the forward movement of the jet plow. As shown in Figure 6, the resulting distance between the second and third sampling event is greater than between the other sampling events.

Table 1. In-River Sampling Locations

Location	Date	Time	Northings	Eastings
1/4 Mile Upstream	9/9/22	0815	993880.9	637287.8
1/8 Mile Upstream	9/9/22	1210	993339.3	636877.0
Nearest Intake	9/9/22	1414	992538.9	636222.7
1/8 Mile Downstream	9/9/22	1500	992243.5	635982.4
1/4 Mile Downstream	9/9/22	1708	991719.4	635606.6

Figure 6: In-River Sampling Locations



Intake Pump Sampling

Sampling was planned to start an hour before the trial started and continue for two (2) hours post trial. Due to the delays in starting the trial, sampling took place for approximately two (2) hours ahead of the trial start, then continued as planned.

Water samples to be submitted for laboratory analysis were supposed to be collected for analytical analysis every 30 minutes. However, due to the previously described issues encountered by the jet plow, there were a few occasions where sampling was halted to not collect samples during jet plow inactivity or reduced speeds. Table 2 provides the sampling times for the samples collected from the pump to be submitted for laboratory analysis. Table 3 provides the field-measured pH and turbidity values collected at 15-minute intervals.

Table 2. Intake Pump Water Sample Collection Times

Sample ID	Date	Time
1 st Pre-Trial	9/9/22	700
2 nd Pre-Trial	9/9/22	730
3 rd Pre-Trial	9/9/22	800
4 th Pre-Trial	9/9/22	830
IP-0 Hr Trial	9/9/22	920
IP-30 Min Trial	9/9/22	950
IP-1 Hr Trial	9/9/22	1020
IP-1 Hr 30 Min Trial	9/9/22	1050
IP-2 Hr Trial	9/9/22	1120
IP-2Hr 30 Min Trial	9/9/22	1220
IP-3 Hr Trial	9/9/22	1250
IP-3 Hr 30 Min Trial	9/9/22	1320
IP-4 Hr Trial	9/9/22	1420
IP-4 Hr 30 Min Trial	9/9/22	1435
IP-5 Hr Trial	9/9/22	1455
IP-5 Hr 30 Min Trial	9/9/22	1530
IP-6 Hr Trial	9/9/22	1600
IP-6 Hr 30 Min Trial	9/9/22	1630
IP-30 Min Post Trial	9/9/22	1735
IP-1 Hr Post Trial	9/9/22	1805
IP-1 Hr 30 Min Post Trial	9/9/22	1835
IP-2 Hr Post Trial	9/9/22	1905
*Trial started at 0920 and ended at 1705		

Table 3. Intake Pump Field Sampling Results

IDs	Time	pH	Turbidity (NTUs)
IP-2 Hr Pre-Trial	0700	7.04	23.6
IP-1 Hr 45 Min Pre-Trial	0715	7.36	11.5
IP-1 Hr 30 Min Pre-Trial	0730	7.88	17.3
IP-1 Hr 15 Min Pre-Trial	0745	7.83	19.1
IP-1 Hr Pre-Trial	0800	7.86	17.1
IP-45 Min Pre-Trial	0815	7.85	14.0
IP-30 Min Pre-Trial	0830	7.83	14.6
IP-15 Min Pre-Trial	0845	7.84	18.1
IP-0 Hr Pre-Trial	0900	7.87	22.3
IP-0 Hr Trial	0920	7.60	18.9
IP-15 Min Trial	0935	7.56	18.9
IP-30 Min Trial	0950	7.74	20.7
IP-45 Min Trial	1005	7.88	17.2
IP-1 Hr Trial	1020	7.89	14.8
IP-1 Hr 15 Min Trial	1035	7.87	19.4
IP-1 Hr 30 Min Trial	1050	7.87	20.7
IP-1 Hr 45 Min Trial	1105	7.86	19.2
IP-2 Hr Trial	1120	7.98	18.6
IP-2 Hr 15 Min Trial	1135	7.88	18.0
IP-2 Hr 30 Min Trial	1150	8.01	18.8
IP-2 Hr 45 Min Trial	1205	7.78	16.7
IP-3 Hr Trial	1220	7.60	20.0
IP-3 Hr 15 Min Trial	1235	7.52	18.2
IP-3 Hr 30 Min Trial	1250	7.17	25.9
IP-3 Hr 45 Min Trial	1305	7.08	23.1
IP-4 Hr Trial	1320	7.08	19.4
IP-4 Hr 15 Min Trial	1335	7.10	15.1
IP-4 Hr 30 Min Trial	1350	7.05	13.6
IP-4 Hr 45 Min Trial	1405	7.14	12.4
IP-5 Hr Trial	1420	7.20	13.9
IP-5 Hr 15 Min Trial	1435	7.36	14.4
IP-5 Hr 30 Min Trial	1450	7.38	18.1
IP-5 Hr 45 Min Trial	1500	7.42	13.8
IP-6 Hr Trial	1515	7.48	13.5
IP-6 Hr 15 Min Trial	1530	7.34	18.1
IP-6 Hr 30 Min Trial	1545	7.45	18.5
IP-6 Hr 45 Min Trial	1600	7.31	16.7
IP-7 Hr Trial	1615	7.36	15.8
IP-7 Hr 15 Min Trial	1630	7.36	13.1
IP-7 Hr 30 Min Trial	1645	7.32	10.7
IP-7 Hr 45 Min Trial	1700	7.34	10.1
IP-15 Min Post-Trial	1715	7.41	10.2
IP-30 Min Post-Trial	1735	7.23	13.7
IP-45 Min Post-Trial	1750	7.32	13.2
IP-1 Hr Post-Trial	1805	7.45	14.1
IP-1 Hr 15 Min Post-Trial	1820	7.39	13.6
IP-1 Hr 30 Min Post-Trial	1835	7.30	13.6
IP-1 Hr 45 Min Post-Trial	1850	7.42	13.9
IP-2 Hr Post-Trial	1905	7.34	13.6
*Trial started at 0920 and ended at 1705.			

d. Laboratory analysis

The analysis was performed by Alpha Analytical Laboratories. Tabulated river sampling analysis results (Alpha Analytical reports L2249449) are provided in Appendix 2. For the intake pump sampling (Alpha Analytical reports L2249449), the tabulated results provided in Appendix 3 only show those cases where there was a reported value (i.e, the laboratory did not report “non-detect”) for a constituent for ease of review. Results of all the analytical testing can be found in Appendix 4. For reference, “MDL” stands for Method Detection Limit and is the lowest concentration that can be detected using a particular procedure. The “RL” is the Reporting Limit, which is the MDL times a safety factor selected by the laboratory to ensure day-to-day variations in the laboratory instruments are considered.

4. DISCUSSION

In their original suggested protocols, the Hudson 7 identified four parameters of concern: turbidity, pH, Total Organic Carbon (“TOC”), and hydrocarbons. In addition, laboratory analysis for metals and polychlorinated biphenyls (“PCBs”), organochlorine pesticides, and dioxane was also requested, although there were no reported values above “non-detect” for organochlorine pesticides and dioxane. The following discussion is intended to provide a high-level summary with the understanding that CHPE and the Hudson 7 will engage in a more detailed review of the results at a later date.

As agreed with the Hudson 7 prior to the trial, special consideration was to be given to situations where the level of a contaminant during the trial exceeded background levels by a factor of 1.5 or higher. However, there are cases where the pre-trial values are “non-detect” so it is not possible to calculate this difference. A “non-detect” simply means that the compound was not detected by laboratory analysis. However, in every instance, it met the standard for finished drinking water and in all cases returned to a “non-detect” level within two hours. In short, these events are temporary and meet the standards of safe drinking water. Furthermore, we will have the ability to work with water operators to shut off valves for the very brief period we are nearby to further mitigate any potential concern.

In addition, there are situations where the reported values are significantly lower than existing standards and guidance. In the tables below, CHPE is providing a “Comparison Value” to offer context for the results. Where available, the Comparison Value is the value provided in the Project’s Water Quality Certificate⁴. Where a contaminant is not included the Water Quality Certificate, CHPE reviewed the promulgated State of New York water quality standards⁵. If a value was not available in the state water quality standards, CHPE consulted the Division of Water Technical and Operational Guidance Series (1.1.1)⁶, which provides guidance values. As was approved in the Water Quality Certificate, the “Health (Water Source)” standard was applied if available. If not, the Fish Survival (A(A)) standard was provided

⁴ The Water Quality Certificate was part of the Joint Proposal of Settlement agreed upon by state agencies, including the Department of Public Service, Department of Environmental Conservation, and Department of State, and non-governmental agencies including Scenic Hudson, Riverkeeper, and Trout Unlimited.

⁵ [6 NYCRR Part 703](#) at

[https://govt.westlaw.com/nycrr/Browse/Home/NewYork/NewYorkCodesRulesandRegulations?guid=I070d30d0b5a111dda0a4e17826ebc834&originationContext=documenttoc&transitionType=Default&contextData=\(sc.Default\)](https://govt.westlaw.com/nycrr/Browse/Home/NewYork/NewYorkCodesRulesandRegulations?guid=I070d30d0b5a111dda0a4e17826ebc834&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default))

⁶ https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

due to the short-term nature of the impacts.⁷ CHPE also anticipates consultation with the Hudson 7 and the plant operators on their existing standards.

In reviewing this material, it is important to keep in mind that the pump station has been designed to represent most restrictive conditions. The pump intake is located approximately 160 feet from the trial, which is the current separation distance for the current routing from the Poughkeepsie water treatment plant. Based on the current routing, the next closest distance would be the Port Ewan plant, which is approximately 500 feet from the routing. The remaining three water treatment plants are over 1,000 feet from the route as currently designed. In addition, the riverbed is relatively level for the locations of the jet plow trial and the pump intake. The permitted route is generally located towards the central portion of the river relative to the water treatment plant intakes, so that any suspended sediments would start at a lower elevation than the intake. When considered in this light, we believe that the results below represent a “worse case” and likely exaggerate what could be experienced at the water treatment plants.

Turbidity

Turbidity was measured for samples collected from the pump at fifteen-minute intervals. As shown in Table 3, the pre-trial period turbidity values ranged from 11.5 to 23.6 NTU while those in the post-trial period ranged from 10.2 to 14.1 NTU. Turbidity readings during the jet plow operation ranged from 10.1 to 25.9 NTU, with the peak value occurring three and a half hours into the trial (1250), so the installation peak did not exceed the pre-installation peak by a factor of 1.5 or greater. In addition, the peak occurring at the same time as high tide suggests that river circulation may contribute as much if not more to turbidity as the jet plow operation. This finding would be consistent with modeling efforts that predicted that the majority of sediment redeposition would be within fifty (50) feet of the installation.⁸

pH

As with turbidity, water samples were collected at the pump at fifteen-minute intervals and the results are presented in Table 3. Readings ranged from 7.04 to 8.01. The highest increase or decrease between fifteen-minute intervals is 0.52, which occurred 1 hour, 30 minutes before the trials began. The highest increase or decrease during the jet plow installation trial was 0.35, which occurred at the same time as the peak turbidity value. This shift is less than the pre-established standard that a change of greater than 1 would require additional consideration.

Total Organic Carbon

For the river sampling, the highest TOC value recorded (2.46 mg/L) occurred during the 1/4 mile upstream sampling event or before the jet plow operation had begun.

For the pump sampling, the pre-trial TOC values ranged from 1.85 to 2.14 mg/L. The maximum TOC values during the trials were 2.73 mg/L, which is less than 1.5 of the maximum pre-trial values.

⁷ As noted, these values are provided only for context and do not reflect any regulatory obligation.

⁸ See the Biological Assessment completed for the Project at: <http://chpexpressseis.org/docs/library/esa/CHPE-Revised-Biological-Assessment.pdf>

Hydrocarbons

Laboratory analysis was completed for 75 volatile organic and 68 semi-volatile organic constituents. For volatile organics, the reported values were all “non-detect” for river sampling and only one contaminant (1,2,4,5-Tetramethylbenzene) had a detectable value for the pump sampling. The reported value for 1,2,4,5-Tetramethylbenzene (0.43 ug/L) is less than the 2.8 ug/L reported for the pre-trial period. This value suggests that the value is correlated with tidal influences rather than with the jet plow installation.

In terms of semi-volatile organics, for the river sampling there were nine contaminants whose values were above “non-detect” during the jet plow operation. For all of these, the pre-installation values were “non-detect” (see Table 4). The State of New York currently has promulgated water quality standards for only two of these contaminants (Bis(2-ethylhexyl)phthalate and Naphthalene)⁹ but has provided guidance values for additional constituents¹⁰.

Table 4. Semi-Volatile Organics with Reported Values at River Sampling

	Pre-Installation Maximum Value (ug/L)	Installation Maximum Value (ug/L)	Ratio	Comparison Value (ug/L)
Bis(2-ethylhexyl)phthalate	ND	2.4	Undefined	5
Fluoranthene	ND	0.02	Undefined	50
Naphthalene	ND	0.09	Undefined	10
Benzo(a)anthracene	ND	0.04	Undefined	NA
Benzo(ghi)perylene	ND	0.04	Undefined	NA
Fluorene	ND	0.02	Undefined	50
Phenanthrene	ND	0.03	Undefined	14
Dibenzo(a,h)anthracene	ND	0.06	Undefined	NA
Indeno(1,2,3-cd)pyrene	ND	0.07	Undefined	NA
2-Methylnaphthalene	ND	0.04	Undefined	42

For the pump sampling, there were values reported for nineteen of the contaminants tested during the jet plow trial but for fourteen of these the pre-installation value was “non-detect.” As with the river sampling New York State’s guidance values are provided for context and the most conservative value is provided (Table 5). The values reported for Benzo(a)pyrene, Benzo(b)fluoranthene, benzo(k)fluoranthene, Chrysene, and Hexachlorobenzene exceeded the Comparison Value but the values for each of these were “non-detect” within 1.5 hours after the jet plow operation. CHPE believes based on past conversations that this short duration can be accommodated by the water treatment systems but will confirm with the operators.

⁹ [6](https://govt.westlaw.com/nycrr/Browse/Home/NewYork/NewYorkCodesRulesandRegulations?guid=I070d30d0b5a111dda0a4e17826ebc834&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default)) NYCRR Part 703 at

[https://govt.westlaw.com/nycrr/Browse/Home/NewYork/NewYorkCodesRulesandRegulations?guid=I070d30d0b5a111dda0a4e17826ebc834&originationContext=documenttoc&transitionType=Default&contextData=\(sc.Default\)](https://govt.westlaw.com/nycrr/Browse/Home/NewYork/NewYorkCodesRulesandRegulations?guid=I070d30d0b5a111dda0a4e17826ebc834&originationContext=documenttoc&transitionType=Default&contextData=(sc.Default))

¹⁰ https://www.dec.ny.gov/docs/water_pdf/togs111.pdf

Table 5. Semi-Volatile Organics with Reported Values at Pump Sampling

	Pre-Installation Maximum Value (ug/L)	Installation Maximum Value (ug/L)	Ratio	Comparison Value (ug/L)
Benzoic Acid	ND	11	Undefined	NA
Acenaphthene	ND	0.02	Undefined	20
Fluoranthene	0.02	0.17	8.5	50
Naphthalene	0.24	0.58	Undefined	10
Benzo(a)anthracene	0.05	0.23	4.6	NA
Benzo(a)pyrene	ND	0.2	Undefined	0.002
Benzo(b)fluoranthene	0.01	0.34	34	0.002
Benzo(k)fluoranthene	ND	0.11	Undefined	0.002
Chrysene	ND	0.19	Undefined	0.002
Acenaphthylene	ND	0.03	Undefined	NA
Anthracene	ND	0.02	Undefined	50
Benzo(ghi)perylene	ND	0.23	Undefined	NA
Fluorene	ND	0.02	Undefined	50
Phenanthrene	ND	0.04	Undefined	14
Dibenzo(a,h)anthracene	ND	0.05	Undefined	NA
Indeno(1,2,3-cd)pyrene	ND	0.26	Undefined	NA
Pyrene	ND	0.17	Undefined	50
2-Methylnaphthalene	0.33	0.36	1.09	42
Hexachlorobenzene	ND	0.02	Undefined	0.00003

Metals

Laboratory analysis was completed for 14 metals per the agreed upon protocol.

For the river sampling, detectable levels were reported for the following nine constituents: arsenic, barium, chromium, iron, manganese, mercury, sodium, thallium, and zinc. The ratio of the highest value for chromium (2.51 ug/L), iron (1700 ug/L), manganese (131 ug/L), sodium (417,000), thallium (0.14) and zinc (16.31 ug/L) exceeded the highest background value by a factor greater than 1.5 (Table 6). The values for iron and sodium exceeded the Comparison Value, although the pre-installation reported values also exceeded these metrics.

Table 6. Metals with Reported Values at River Sampling

	Pre-Installation Maximum Value (ug/L)	Installation Maximum Value (ug/L)	Ratio	Comparison Value (ug/L)
Arsenic, Total	0.99	1.35	1.36	36
Barium, Total	32.02	39.22	1.22	1000
Chromium, Total	1.55	2.51	1.62	7.7
Iron, Total	640	1,700	2.66	300
Manganese, Total	56.61	131	2.31	300
Mercury, Total	0.18	0.19	1.06	0.7
Sodium, Total	190,000	417,000	2.19	20,000
Thallium, Total	ND	0.14	Undefined	8
Zinc, Total	3.84	16.31	4.25	NA*

*Calculated based on formula that relies upon measured hardness of water, which was unavailable.

For the pump sampling, the detectible levels were reported for same eight constituents as for the river sampling as well as antimony. For antimony (0.58 ug/L) and thallium (0.19 ug/L), the pre-installation samples were all “non-detect” for these constituents but the highest values were lower than the corresponding Comparison Value. As with the river sampling, the reported maximum values for iron and sodium exceeded their corresponding Comparison Value during the pre-installation and installation phase. The pre-installation maximum value for iron was greater than the installation maximum value, suggesting that this constituent is correlated with tidal activities rather than the jet plow installation. For sodium, the ratio of the highest value for sodium (482,000 ug/L) exceeded the highest background value by a factor greater than 1.5 (Table 7), but decreased reported levels returned to background within two hours of the end of the trial. Again, CHPE believes that this short duration can be accommodated but will confirm with the water treatment operators.

Table 7. Metals with Reported Values at Pump Sampling

	Pre-Installation Maximum Value (ug/L)	Installation Maximum Value (ug/L)	Ratio	Comparison Value (ug/L)
Antimony	ND	0.58	Undefined	3
Arsenic, Total	1.24	1.4	1.13	36
Barium, Total	32.69	36.65	1.12	1000
Chromium, Total	0.89	1.02	1.15	7.7
Iron, Total	1,240	889	0.72	300
Manganese, Total	61.16	88.69	1.45	300
Mercury, Total	0.13	0.15	1.15	0.7
Sodium, Total	250,000	482,000	1.93	20,000
Thallium, Total	ND	0.19	Undefined	8
Zinc, Total	50.42	15.5	0.31	NA*

* Calculated based on formula that relies upon measured hardness of water, which was unavailable.

Polychlorinated biphenyls

Laboratory analysis was completed for 22 PCB congenerers.

For the river sampling, the highest value for a PCB congener at the outset of the trials (1/4 mile upstream) was 0.00195 ug/l. For the five PCB congeners where the values were greater than “non-detect”, the maximum value reported for that congener was more than 1.5 times the corresponding pre-trial value. However, the maximum value reported (0.00361 ug/L for C13-BZ#18) is well below the Project’s Water Quality Certificate standard of 0.2 per aroclor.

For the pump sampling, the highest value for a PCB congener (C13-BZ#18) for pre-trial sampling was 0.00265 ug/L. This same congener has the highest maximum value (0.304 ug/L) of the five PCBs congenerers where the values were greater than “non-detect”. There was one congener (C15-BZ#101) where it was not possible to calculate the ratio because the pre-trial sampling did not detect this constituent. However, the maximum value for this constituent was 0.000556 ug/L, which is lower than Project’s Water Quality Certificate standard of 0.2 per aroclor.

Other Chemicals

Laboratory analysis was completed for chloride, fluoride, and sulfate.

The results for river and pump sampling are provided below in Tables 8 and 9, respectively. The maximum value during the jet plow trial exceeded the pre-trial levels by a factor of 1.5 or more for chloride and sulfate during the river sampling but only for chloride at the pump sampling station. CHPE will review the values for chloride with the Hudson 7 and plant operators to place these reported values within the context of normal operation.

Table 8. Other Chemicals with Reported Values at River Sampling

	Pre-Installation Maximum Value (ug/L)	Installation Maximum Value (ug/L)	Ratio	Comparison Value (ug/L)
Chloride	410,000	890,000	2.17	250,000
Fluoride	110	150	1.36	1,500
Sulfate	65,000	130,000	2	250,000

Table 9. Other Chemicals with Reported Values at Pump Sampling

	Pre-Installation Maximum Value (ug/L)	Installation Maximum Value (ug/L)	Ratio	Comparison Value (ug/L)
Chloride	510,000	870,000	1.71	250,000
Fluoride	130	150	1.15	1,500
Sulfate	85,000	100,000	1.18	250,000

5. CONCLUSION

CHPE LLC and the Hudson 7 developed a set of studies to determine the potential impact of the jet plow installation on the public water systems located within the Hudson River. Based on the guidance thresholds recommended by the Hudson 7 prior to the initiation of the study (see Appendix 1), the values for turbidity, pH, total organic compounds, and volatile organics are below the threshold levels established by the H7 and New York State. The findings for semi-volatile organics, metals, and PCBs also fall within the acceptable range of values according to existing state guidance—including state water quality standards. CHPE and the Hudson 7 both share the goal of taking all precautions to minimize environmental disruption and protecting community water. To help achieve these goals, CHPE LLC will continue to consult with communities and public water system plant operators on any additional feedback they may have regarding this study.

Appendix 1

Initial Proposed Testing & Monitoring Protocols to Prepare for Cable Installation in the Hudson River near Drinking Water Intakes

Initial Proposed Testing & Monitoring Protocols to Prepare for Cable Installation in the Hudson River near Drinking Water Intakes

In 2013, Transmission Developers Inc. (TDI) received permits for its Champlain Hudson Power Express (CHPE) project. The project would include using a "jet plow" to install the electric transmission cable in the bed of the Hudson River in the stretch of the Hudson River that includes drinking water intakes that serve over 100,000 people. Consultation with the communities and their water operators during permitting was limited to identifying the location of intakes, and pre-dated the formation of the Hudson River Drinking Water Intermunicipal Council (Hudson 7 or Council). The Council is dedicated to protecting the Hudson River as the source of drinking water for the City and Town of Poughkeepsie, the Village and Town of Rhinebeck, and the Towns of Esopus, Hyde Park, and Lloyd. These municipalities rely on five drinking water treatment plants and six intakes. Water is also distributed to residential and commercial properties in the Town of East Fishkill via the Central Dutchess Water Transmission Line.

The Council and its member communities have expressed significant concerns about the project and its permits due to the potential for contamination of drinking water supplies during the construction of the CHPE project. The permit requires TDI to develop an Environmental Management and Control Plan (EM&CP) and to conduct pilot testing of the jet plow that would be used to install the cable.

The Hudson 7 and TDI have been engaged in discussions over how to best implement this analysis given operational and safety concerns. This document outlines the pilot testing and sediment sampling protocols agreed upon by the Council and TDI. It relates to the following set of actions:

1. Sediment sampling to assess whether there are hotspots of pollution in the sediments in CHPE's route near the drinking water intakes.
2. Pilot testing with a full-scale jet plow in the vicinity of a simulated intake, with testing for an array of contaminants.

The Council and TDI agree that this data will be used to develop the EM&CP for our area. Items to be addressed in the EM&CP include robust real-time testing and requirements to halt operations if contamination occurs as well as an emergency response plan.

Sediment Sampling

Prior to the development of the EM&CP, TDI will take five sediment cores along its route in the vicinity of the intakes. Samples will be collected at the location of the closest point of the proposed cables to the intake, 1/8 of a mile upstream and downstream from this point, and 1/4 of a mile upstream and downstream from this point. The distribution and density of sediment cores has been determined through consultation with Dr. Bob Chant, a consultant with expertise in pollution dispersion modeling on retainer with the Poughkeepsie Joint Water Board. The core shall be nine feet deep to obtain sediment for the entire depth of the trench plus two feet. A composite sample will be collected and processed for the upper four (4) feet of the core and a second composite sample will be collected and processed from the remaining portion of the core.

The cores should be tested for the following contaminants, which are drawn from 6 CRR-NY 361-3.9:

Parameter	Analysis Method
Dioxins	EPA 8290
Petroleum Compounds	EPA 8270
Polycyclic Aromatic Hydrocarbons (PAHs) <ul style="list-style-type: none"> • Benz(a)anthracene • Pyrene • Phenanthrene • Naphthalene 	
Pesticides (4,4 DDE)	EPA 8081
Polychlorinated Biphenyls	NOAA 22 Congeners EPA Method 8270D/NOAA (8270D-SIM/680(M))
Heavy Metals <ul style="list-style-type: none"> • Arsenic • Cadmium • Mercury • Copper • Lead 	EPA 200.7/EPA 200.8

These pollutants are known to exist in the bottom sediments of the Hudson, with unknown "Hot Spots," so samples must be taken near all intakes and at a sufficient distribution and density along the proposed route of the cable to account for the potential for contaminants mobilized by jet plowing to reach one or more intake. TDI will develop a report that will consider the values in light of the findings of the pilot testing. TDI shall present the results of the analyses in a report to the Hudson 7, Department of Public Service (DPS), Department of Environmental Conservation (DEC) Department of Health (DOH), Dutchess County Department of Behavioral & Community Health (DCDBCH), and Ulster County Health Department of Health Environmental Services (UCDOH).

Pilot Testing

Pilot testing of the jet plow shall be conducted at least 6 months before the start of the preparation of the EM&CP, and results shall be presented to Hudson 7, DPS, DEC, DOH, DCDBCH, and UCDOH prior to the submission of the EM&CP. The Hudson 7 and TDI have agreed that pump will be used to simulate the operation of a public water system intake during the jet plow operation. This approach provides a safe, reliable method for understanding the potential impacts of the jet plow without posing any risk to or inconveniencing the operation of a public water system. The site for the test is in the town of Chelsea, south of Poughkeepsie. A review of available sediment and contaminant data indicates that the chosen site for the simulated intake is representative of conditions at the Hudson 7 water treatment plants.

Study Preparation

TDI will contact the DPS, DEC, DOH, DCDBCH and UCDOH to inform them that this study is being completed. If permit is required, TDI will obtain this permit.

At least two weeks before the pilot testing, TDI will notify Hudson 7 and will provide drawings of the proposed simulated intake site.

At least one week prior to the pre-installation trial, TDI will contact the Chelsea Police Department to inform them that the study is proceeding at the Site and provide a contact number in the event there are inquiries from the public.

Site Preparation

At least one day prior to the in-water pre-installation trials, TDI's consultants will arrive at the Site to test the system and sampling procedures. The Pump system will be run for a period of no less than two hours. TDI's consultants will also demonstrate that suitable water samples can be obtained.

The hose to be employed in the study will be inspected for damage or holes. Any defects will be field-repaired.

In-Water Testing Protocols

The jet plow will start one-quarter mile upstream of the simulated intake and end one-quarter mile downstream of the simulated intake. The installation speed will be at least 300 ft /hour for first and last eighth (1/8) of a mile and speed of 600 ft /hour for middle quarter (1/4) of a mile, noting that plow speeds may fluctuate due to riverbed conditions.

Grab samples for the baseline values will be taken prior to installation. Grab water samples shall be taken 500 ft upstream and downstream of the jet plow and no more than three feet above the river bottom and analyzed for total suspended solids (TSS). Grab water samples will be taken at the following locations:

- One-quarter mile upstream of the intake before the jet plow starts for the baseline values
- One-eighth mile upstream of the intake
- At the closest point to the intake
- One-eighth mile downstream of the intake
- One-quarter mile downstream of the intake

Samples will be analyzed for the parameters provided in Appendix 1, which are drawn from Table 1 of the 5-1.52 Tables of Subpart 5-1 of the NYCRR as well as operator knowledge. It is understood that the methodologies employed will not be the same as those for drinking water testing due to fact that the water is unfinished.

In addition to the grab samples, re-suspended sediment (i.e., the sediment plume) associated with the trials will be monitored using the ADCP and OBS. The ADCP is mounted in a fix pole off the side of the vessel and samples the water column via acoustic pings from transducers so it's remotely sampling the entire water column, except for zones near the instrument and near the bottom. This instrument will run continuously. The OBS is integrated into a handheld profiler that is lowered from the vessel to specific depths

(approximately near-surface, mid-depth, and near bottom).

A log book will be kept during these sampling events which records the time that each sample was obtained and records its identification number.

Simulated Intake Testing Protocols

On the day of the trial, TDI's consultants will access the Site to prepare for the simulation exercise. The intake hose will be attached to the Pump and located approximately 160 feet from the jet plow operation.

No less than one hour prior to the initiation of the jet plow operation, TDI's consultants will activate the Pump. The flow rate will be measured and is expected to be at least 1.0 million gallons per day. The Pump will be operated for at least two hours after the TSS Trial is complete.

During operation there will be two types of sampling:

Field Sampling

Water will be field tested for pH and turbidity with a probe provided by Poughkeepsie Water Treatment Plant or TDI's consultants. Water samples will be obtained every 15 minutes and will be taken for at one hour before the jet plow operations begins and at least two hours after the jet plow operation has ceased.

Laboratory Sampling

Water samples will be obtained approximately every 30 minutes and prepared for laboratory analysis. It is expected that at least three sample will be collected for each 1/8-mile increment (3 for first 1/8 mile before simulated intake, 3 for second 1/8 mile before simulated intake, 3 for first 1/8 mile after simulated intake, 3 for second 1/8 mile after simulated intake) Samples will also be collected for at least one hour before the jet plow begins operation and at least two hours after the jet plow operation has ceased.

A log book will be kept during the two types of sampling events which records the time that each sample was obtained and records its identification number.

Reporting

TDI will present the results of the analyses, a description of pilot testing, and recommendations for the EM&CP to DPS, DEC, DOH, Hudson 7, DCDBCH, and UCDOH for their comments prior to the submission of the EM&CP. The report will compare baseline data to the results from field and laboratory sampling collected during the pre-installation trials. Based on the Hudson 7's recommendations, the report will particularly focus on situations where:

- Turbidity was greater than 50 NTU above baseline
- TOC was greater than 1.5 mg/L above the baseline
- pH changes by more than one unit from the baseline
- A parameter listed on Table 1 is greater than 1.5 times the baseline value

The report will draw upon other information as appropriate, including river flow data,

tidal information, and data collected as part of the pilot testing of the jet plow. The results will be compared to applicable standards, including drinking water standards.

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Appendix 1
**Select Parameters For Testing, including Table 1 of
the 5-1.52 Tables of Subpart 5-1 of the NYCRR**

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Table 1	Other
Antimony	Volatile Organic Compounds – EPA 8260
Arsenic	Semi-volatile Compounds – EPA 8270
Barium	Total Organic Carbon – equivalent of SM5310 or EPA9060A
Beryllium	Pesticide – EPA 8081
Cadmium	PCBs Congeners – NOAA 22 Congeners EPA Method 8270D/NOAA (8270D-SIM/680(M))
Chromium	Total Suspended Solids
Mercury	
Selenium	
Silver	
Thallium	
Fluoride	
Chloride	
Iron	
Manganese	
Sodium	
Sulfate	
Zinc	

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Appendix 2

Tabulated Laboratory Results for River Sampling

ANALYTE	CAS	NOCRIT (ug/l)	1/4 MILE UPSTREAM				1/8 MILE UPSTREAM				NEAREST INTAKE				1/8 MILE DOWNSTREAM				1/4 MILE DOWNSTREAM						
			LAB ID:																						
			COLLECTION DATE:																						
			SAMPLE DEPTH:																						
			SAMPLE MATRIX:																						
		WATER				WATER				WATER				WATER				WATER							
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL			
VOLATILE ORGANICS BY GC/MS																									
Methylene chloride	75-09-2		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,1-Dichloroethane	75-34-3		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Chloroform	67-66-3		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Carbon tetrachloride	56-23-5		ND	0.5	0.13		ND	0.5	0.13		ND	0.5	0.13		ND	0.5	0.13		ND	0.5	0.13		ND	0.5	0.13
1,2-Dichloropropane	78-87-5		ND	1	0.14		ND	1	0.14		ND	1	0.14		ND	1	0.14		ND	1	0.14		ND	1	0.14
Dibromochloromethane	124-48-1		ND	0.5	0.15		ND	0.5	0.15		ND	0.5	0.15		ND	0.5	0.15		ND	0.5	0.15		ND	0.5	0.15
1,1,2-Trichloroethane	79-00-5		ND	1.5	0.5		ND	1.5	0.5		ND	1.5	0.5		ND	1.5	0.5		ND	1.5	0.5		ND	1.5	0.5
Tetrachloroethane	127-18-4		ND	0.5	0.18		ND	0.5	0.18		ND	0.5	0.18		ND	0.5	0.18		ND	0.5	0.18		ND	0.5	0.18
Chlorobenzene	108-90-7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Trichlorofluoromethane	75-69-4		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,2-Dichloroethane	107-06-2		ND	0.5	0.13		ND	0.5	0.13		ND	0.5	0.13		ND	0.5	0.13		ND	0.5	0.13		ND	0.5	0.13
1,1,1-Trichloroethane	71-55-6		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Bromodichloromethane	75-27-4		ND	0.5	0.19		ND	0.5	0.19		ND	0.5	0.19		ND	0.5	0.19		ND	0.5	0.19		ND	0.5	0.19
trans-1,3-Dichloropropene	10061-02-6		ND	0.5	0.16		ND	0.5	0.16		ND	0.5	0.16		ND	0.5	0.16		ND	0.5	0.16		ND	0.5	0.16
cis-1,3-Dichloropropene	10061-01-5		ND	0.5	0.14		ND	0.5	0.14		ND	0.5	0.14		ND	0.5	0.14		ND	0.5	0.14		ND	0.5	0.14
1,3-Dichloropropene, Total	542-75-6		ND	0.5	0.14		ND	0.5	0.14		ND	0.5	0.14		ND	0.5	0.14		ND	0.5	0.14		ND	0.5	0.14
1,1-Dichloropropene	563-68-6		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Bromoform	75-25-2		ND	2	0.65		ND	2	0.65		ND	2	0.65		ND	2	0.65		ND	2	0.65		ND	2	0.65
1,1,2,2-Tetrachloroethane	79-34-5		ND	0.5	0.17		ND	0.5	0.17		ND	0.5	0.17		ND	0.5	0.17		ND	0.5	0.17		ND	0.5	0.17
Benzene	71-43-2		ND	0.5	0.16		ND	0.5	0.16		ND	0.5	0.16		ND	0.5	0.16		ND	0.5	0.16		ND	0.5	0.16
Toluene	108-88-3		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Ethylbenzene	100-41-4		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Chloromethane	74-87-3		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Bromomethane	74-83-9		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Vinyl chloride	75-01-4		ND	1	0.07		ND	1	0.07		ND	1	0.07		ND	1	0.07		ND	1	0.07		ND	1	0.07
Chloroethane	75-00-3		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,1-Dichloroethene	75-35-4		ND	0.5	0.17		ND	0.5	0.17		ND	0.5	0.17		ND	0.5	0.17		ND	0.5	0.17		ND	0.5	0.17
trans-1,2-Dichloroethene	156-60-5		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Trichloroethene	79-01-6		ND	0.5	0.18		ND	0.5	0.18		ND	0.5	0.18		ND	0.5	0.18		ND	0.5	0.18		ND	0.5	0.18
1,2-Dichlorobenzene	95-50-1		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,3-Dichlorobenzene	541-73-1		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,4-Dichlorobenzene	106-46-7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Methyl tert butyl ether	1634-04-4		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
p/m-Xylene	179601-23-1		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
o-Xylene	95-47-6		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Xylenes, Total	1330-20-7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
cis-1,2-Dichloroethene	156-59-2		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,2-Dichloroethene, Total	540-59-0		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Dibromomethane	74-95-3		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1
1,2,3-Trichloropropane	96-18-4		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Acrylonitrile	107-13-1		ND	5	1.5		ND	5	1.5		ND	5	1.5		ND	5	1.5		ND	5	1.5		ND	5	1.5
Styrene	100-42-5		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Dichlorodifluoromethane	75-71-8		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1
Acetone	67-64-1		ND	5	1.5		ND	5	1.5		ND	5	1.5		ND	5	1.5		ND	5	1.5		ND	5	1.5
Carbon disulfide	75-15-0		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1
2-Butanone	78-93-3		ND	5	1.9		ND	5	1.9		ND	5	1.9		ND	5	1.9		ND	5	1.9		ND	5	1.9
Vinyl acetate	108-05-4		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1
4-Methyl-2-pentanone	108-10-1		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1
2-Hexanone	591-78-6		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1		ND	5	1
Bromochloromethane	74-97-5		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
2,2-Dichloropropane	594-20-7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,2-Dibromoethane	106-93-4		ND	2	0.65		ND	2	0.65		ND	2	0.65		ND	2	0.65		ND	2	0.65		ND	2	0.65
1,3-Dichloropropane	142-28-9		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,1,1,2-Tetrachloroethane	630-20-6		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Bromobenzene	108-86-1		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
n-Butylbenzene	104-51-8		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
sec-Butylbenzene	135-98-8		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
tert-Butylbenzene	98-06-6		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
o-Chlorotoluene	95-49-8		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
p-Chlorotoluene	106-43-4		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
1,2-Dibromo-3-chloropropane	96-12-8		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Hexachlorobutadiene	87-68-3		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
Isopropylbenzene	98-82-8		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7
p-Isopropyltoluene	99-87-6		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7		ND	2.5	0.7

Naphthalene	91-20-3		ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7			
n-Propylbenzene	103-65-1		ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7			
1,2,3-Trichlorobenzene	87-61-6		ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7			
1,2,4-Trichlorobenzene	120-82-1		ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7			
1,3,5-Trimethylbenzene	108-67-8		ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7			
1,2,4-Trimethylbenzene	95-63-6		ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7			
1,4-Dioxane	123-91-1		ND	250	61	ND	250	61	ND	250	61	ND	250	61	ND	250	61			
p-Diethylbenzene	105-05-5		ND	2	0.7	ND	2	0.7	ND	2	0.7	ND	2	0.7	ND	2	0.7			
p-Ethyltoluene	622-96-8		ND	2	0.7	ND	2	0.7	ND	2	0.7	ND	2	0.7	ND	2	0.7			
1,2,4,5-Tetramethylbenzene	95-93-2		ND	2	0.54	ND	2	0.54	ND	2	0.54	ND	2	0.54	ND	2	0.54			
Ethyl ether	60-29-7		ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7			
trans-1,4-Dichloro-2-butene	110-57-6		ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7	ND	2.5	0.7			
Total VOCs			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,4 DIOXANE BY 8270E-SIM																				
1,4-Dioxane	123-91-1		ND	0.134	0.0303	ND	0.144	0.0326	ND	0.144	0.0326	ND	0.139	0.0314	ND	0.139	0.0314			
SEMIVOLATILE ORGANICS BY GC/MS																				
1,2,4-Trichlorobenzene	120-82-1		ND	5	0.5	ND	5	0.5	ND	5	0.5	ND	5	0.5	ND	5	0.5			
Bis(2-chloroethyl)ether	111-44-4		ND	2	0.5	ND	2	0.5	ND	2	0.5	ND	2	0.5	ND	2	0.5			
1,2-Dichlorobenzene	95-50-1		ND	2	0.45	ND	2	0.45	ND	2	0.45	ND	2	0.45	ND	2	0.45			
1,3-Dichlorobenzene	541-73-1		ND	2	0.4	ND	2	0.4	ND	2	0.4	ND	2	0.4	ND	2	0.4			
1,4-Dichlorobenzene	106-46-7		ND	2	0.43	ND	2	0.43	ND	2	0.43	ND	2	0.43	ND	2	0.43			
3,3'-Dichlorobenzidine	91-94-1		ND	5	1.6	ND	5	1.6	ND	5	1.6	ND	5	1.6	ND	5	1.6			
2,4-Dinitrotoluene	121-14-2		ND	5	1.2	ND	5	1.2	ND	5	1.2	ND	5	1.2	ND	5	1.2			
2,6-Dinitrotoluene	606-20-2		ND	5	0.93	ND	5	0.93	ND	5	0.93	ND	5	0.93	ND	5	0.93			
4-Chlorophenyl phenyl ether	7005-72-3		ND	2	0.49	ND	2	0.49	ND	2	0.49	ND	2	0.49	ND	2	0.49			
4-Bromophenyl phenyl ether	101-55-3		ND	2	0.38	ND	2	0.38	ND	2	0.38	ND	2	0.38	ND	2	0.38			
Bis(2-chloroisopropyl)ether	108-60-1		ND	2	0.53	ND	2	0.53	ND	2	0.53	ND	2	0.53	ND	2	0.53			
Bis(2-chloroethoxy)methane	111-91-1		ND	5	0.5	ND	5	0.5	ND	5	0.5	ND	5	0.5	ND	5	0.5			
Hexachlorocyclopentadiene	77-47-4		ND	20	0.69	ND	20	0.69	ND	20	0.69	ND	20	0.69	ND	20	0.69			
Isophorone	78-59-1		ND	5	1.2	ND	5	1.2	ND	5	1.2	ND	5	1.2	ND	5	1.2			
Nitrobenzene	98-95-3		ND	2	0.77	ND	2	0.77	ND	2	0.77	ND	2	0.77	ND	2	0.77			
NDPA/DPA	86-30-6		ND	2	0.42	ND	2	0.42	ND	2	0.42	ND	2	0.42	ND	2	0.42			
n-Nitrosodi-n-propylamine	621-64-7		ND	5	0.64	ND	5	0.64	ND	5	0.64	ND	5	0.64	ND	5	0.64			
Bis(2-ethylhexyl)phthalate	117-81-7		ND	3	1.5	J	3	1.5	J	3	1.5	ND	3	1.5	ND	3	1.5			
Butyl benzyl phthalate	85-68-7		ND	5	1.2	ND	5	1.2	ND	5	1.2	ND	5	1.2	ND	5	1.2			
Di-n-butylphthalate	84-74-2		ND	5	0.39	ND	5	0.39	ND	5	0.39	ND	5	0.39	ND	5	0.39			
Di-n-octylphthalate	117-84-0		ND	5	1.3	ND	5	1.3	ND	5	1.3	ND	5	1.3	ND	5	1.3			
Diethyl phthalate	84-66-2		ND	5	0.38	ND	5	0.38	ND	5	0.38	ND	5	0.38	ND	5	0.38			
Dimethyl phthalate	131-11-3		ND	5	1.8	ND	5	1.8	ND	5	1.8	ND	5	1.8	ND	5	1.8			
Biphenyl	92-52-4		ND	2	0.46	ND	2	0.46	ND	2	0.46	ND	2	0.46	ND	2	0.46			
4-Chloroaniline	106-47-8		ND	5	1.1	ND	5	1.1	ND	5	1.1	ND	5	1.1	ND	5	1.1			
2-Nitroaniline	88-74-4		ND	5	0.5	ND	5	0.5	ND	5	0.5	ND	5	0.5	ND	5	0.5			
3-Nitroaniline	99-09-2		ND	5	0.81	ND	5	0.81	ND	5	0.81	ND	5	0.81	ND	5	0.81			
4-Nitroaniline	100-01-6		ND	5	0.8	ND	5	0.8	ND	5	0.8	ND	5	0.8	ND	5	0.8			
Dibenzofuran	132-64-9		ND	2	0.5	ND	2	0.5	ND	2	0.5	ND	2	0.5	ND	2	0.5			
1,2,4,5-Tetrachlorobenzene	95-94-3		ND	10	0.44	ND	10	0.44	ND	10	0.44	ND	10	0.44	ND	10	0.44			
Acetophenone	98-86-2		ND	5	0.53	ND	5	0.53	ND	5	0.53	ND	5	0.53	ND	5	0.53			
2,4,6-Trichlorophenol	88-06-2		ND	5	0.61	ND	5	0.61	ND	5	0.61	ND	5	0.61	ND	5	0.61			
p-Chloro-m-cresol	59-50-7		ND	2	0.35	ND	2	0.35	ND	2	0.35	ND	2	0.35	ND	2	0.35			
2-Chlorophenol	95-57-8		ND	2	0.48	ND	2	0.48	ND	2	0.48	ND	2	0.48	ND	2	0.48			
2,4-Dichlorophenol	120-83-2		ND	5	0.41	ND	5	0.41	ND	5	0.41	ND	5	0.41	ND	5	0.41			
2,4-Dimethylphenol	105-67-9		ND	5	1.8	ND	5	1.8	ND	5	1.8	ND	5	1.8	ND	5	1.8			
2-Nitrophenol	88-75-5		ND	10	0.85	ND	10	0.85	ND	10	0.85	ND	10	0.85	ND	10	0.85			
4-Nitrophenol	100-02-7		ND	10	0.67	ND	10	0.67	ND	10	0.67	ND	10	0.67	ND	10	0.67			
2,4-Dinitrophenol	51-28-5		ND	20	6.6	ND	20	6.6	ND	20	6.6	ND	20	6.6	ND	20	6.6			
4,6-Dinitro-o-cresol	534-62-1		ND	10	1.8	ND	10	1.8	ND	10	1.8	ND	10	1.8	ND	10	1.8			
Phenol	108-95-2		ND	5	0.57	ND	5	0.57	ND	5	0.57	ND	5	0.57	ND	5	0.57			
2-Methylphenol	95-48-7		ND	5	0.49	ND	5	0.49	ND	5	0.49	ND	5	0.49	ND	5	0.49			
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5		ND	5	0.48	ND	5	0.48	ND	5	0.48	ND	5	0.48	ND	5	0.48			
2,4,5-Trichlorophenol	95-95-4		ND	5	0.77	ND	5	0.77	ND	5	0.77	ND	5	0.77	ND	5	0.77			
Benzoic Acid	65-85-0		ND	50	2.6	ND	50	2.6	ND	50	2.6	ND	50	2.6	ND	50	2.6			
Benzyl Alcohol	100-51-6		ND	2	0.59	ND	2	0.59	ND	2	0.59	ND	2	0.59	ND	2	0.59			
Carbazole	86-74-8		ND	2	0.49	ND	2	0.49	ND	2	0.49	ND	2	0.49	ND	2	0.49			
Total SVOCs			-	-	-	-	-	-	2.4	-	-	-	-	-	-	-	-			
SEMIVOLATILE ORGANICS BY GC/MS-SIM																				
Acenaphthene	83-32-9		ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01			
2-Chloronaphthalene	91-58-7		ND	0.2	0.02	ND	0.2	0.02	ND	0.2	0.02	ND	0.2	0.02	ND	0.2	0.02			
Fluoranthene	206-44-0		ND	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02	0.02	J	0.1	0.02	ND	0.1	0.02		
Hexachlorobutadiene	87-68-3		ND	0.5	0.05	ND	0.5	0.05	ND	0.5	0.05	ND	0.5	0.05	ND	0.5	0.05			
Naphthalene	91-20-3		ND	0.1	0.05	0.09	J	0.1	0.05	0.07	J	0.1	0.05	ND	0.1	0.05	ND	0.1	0.05	
Benzo(a)anthracene	56-55-3		ND	0.1	0.02	ND	0.1	0.02	0.02	J	0.1	0.02	0.02	J	0.1	0.02	0.04	J	0.1	0.02
Benzo(a)pyrene	50-32-8		ND	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02
Benzo(b)fluoranthene	205-99-2		ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01
Benzo(k)fluoranthene	207-08-9		ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01

Chrysene	218-01-9			ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01				
Acenaphthylene	208-96-8			ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01				
Anthracene	120-12-7			ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01				
Benzo(ghi)perylene	191-24-2			ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	0.04	J	0.1	0.01	ND	0.1	0.01			
Fluorene	86-73-7			ND	0.1	0.01	ND	0.1	0.01	0.02	J	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01			
Phenanthrene	85-01-8			ND	0.1	0.02	ND	0.1	0.02	0.03	J	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02			
Dibenzo(a,h)anthracene	53-70-3			ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	0.06	J	0.1	0.01	ND	0.1	0.01			
Indeno(1,2,3-cd)pyrene	193-39-5			ND	0.1	0.01	ND	0.1	0.01	ND	0.1	0.01	0.07	J	0.1	0.01	ND	0.1	0.01			
Pyrene	129-00-0			ND	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02				
2-Methylnaphthalene	91-57-6			ND	0.1	0.02	ND	0.1	0.02	0.04	J	0.1	0.02	ND	0.1	0.02	ND	0.1	0.02			
Pentachlorophenol	87-86-5			ND	0.8	0.01	ND	0.8	0.01	ND	0.8	0.01	ND	0.8	0.01	ND	0.8	0.01				
Hexachlorobenzene	118-74-1			ND	0.8	0.01	ND	0.8	0.01	ND	0.8	0.01	ND	0.8	0.01	ND	0.8	0.01				
Hexachloroethane	67-72-1			ND	0.8	0.06	ND	0.8	0.06	ND	0.8	0.06	ND	0.8	0.06	ND	0.8	0.06				
Total SVOCs				-	-	-	-	0.09	-	-	-	-	0.18	-	-	-	0.21	-	-			
ORGANOCHLORINE PESTICIDES BY GC																						
Delta-BHC	319-86-8			ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003				
Lindane	58-89-9			ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003				
Alpha-BHC	319-84-6			ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003				
Beta-BHC	319-85-7			ND	0.014	0.004	ND	0.014	0.004	ND	0.014	0.004	ND	0.014	0.004	ND	0.014	0.004				
Heptachlor	76-44-8			ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002				
Aldrin	309-00-2			ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002				
Heptachlor epoxide	1024-57-3			ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003	ND	0.014	0.003				
Endrin	72-20-8			ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003				
Endrin aldehyde	7421-93-4			ND	0.029	0.006	ND	0.029	0.006	ND	0.029	0.006	ND	0.029	0.006	ND	0.029	0.006				
Endrin ketone	53494-70-5			ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003				
Dieldrin	60-57-1			ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003				
4,4'-DDE	72-55-9			ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003				
4,4'-DDD	72-54-8			ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003				
4,4'-DDT	50-29-3			ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003				
Endosulfan I	959-98-8			ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002	ND	0.014	0.002				
Endosulfan II	33213-65-9			ND	0.029	0.004	ND	0.029	0.004	ND	0.029	0.004	ND	0.029	0.004	ND	0.029	0.004				
Endosulfan sulfate	1031-07-8			ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003	ND	0.029	0.003				
Methoxychlor	72-43-5			ND	0.143	0.005	ND	0.143	0.005	ND	0.143	0.005	ND	0.143	0.005	ND	0.143	0.005				
Toxaphene	8001-35-2			ND	0.143	0.045	ND	0.143	0.045	ND	0.143	0.045	ND	0.143	0.045	ND	0.143	0.045				
cis-Chlordane	5103-71-9			ND	0.014	0.005	ND	0.014	0.005	ND	0.014	0.005	ND	0.014	0.005	ND	0.014	0.005				
trans-Chlordane	5103-74-2			ND	0.014	0.004	ND	0.014	0.004	ND	0.014	0.004	ND	0.014	0.004	ND	0.014	0.004				
Chlordane	57-74-9			ND	0.143	0.033	ND	0.143	0.033	ND	0.143	0.033	ND	0.143	0.033	ND	0.143	0.033				
PCB CONGENERS (NOAA LIST)																						
C12-BZ#8	34883-43-7			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	0.000532	J	0.00098	0.00049			
C13-BZ#18	37680-65-2			0.00195	0.00098	0.00049	0.00232	0.00099	0.000495	0.00176	0.00099	0.000495	0.00143	0.00098	0.00049	0.00361	0.00098	0.00049				
C13-BZ#28	7012-37-5			0.00164	0.00098	0.00049	0.00213	0.00099	0.000495	0.00182	0.00099	0.000495	0.00116	0.00098	0.00049	0.00299	0.00098	0.00049				
C14-BZ#44	41464-39-5			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049				
C14-BZ#49	41464-40-8			0.000924	J	0.00098	0.00049	0.00101	0.00099	0.000495	0.000848	J	0.00099	0.000495	0.000607	J	0.00098	0.00049	0.00148	0.00098	0.00049	
C14-BZ#52	35693-99-3			0.000929	J	0.00098	0.00049	0.00103	0.00099	0.000495	0.000864	J	0.00099	0.000495	0.000635	J	0.00098	0.00049	0.00166	0.00098	0.00049	
C14-BZ#66	32598-10-0			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C15-BZ#87	38380-02-8			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C15-BZ#101	37680-73-2			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C15-BZ#105	32598-14-4			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C15-BZ#118	31508-00-6			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C16-BZ#128	38380-07-3			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C16-BZ#138	35065-28-2			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C16-BZ#153	35065-27-1			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C17-BZ#170	35065-30-6			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C17-BZ#180	35065-29-3			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C17-BZ#183	52663-69-1			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C17-BZ#184	74472-48-3			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C17-BZ#187	52663-68-0			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C18-BZ#195	52663-78-2			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C19-BZ#206	40186-72-9			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
C10-BZ#209	2051-24-3			ND	0.00098	0.00049	ND	0.00099	0.000495	ND	0.00099	0.000495	ND	0.00098	0.00049	ND	0.00098	0.00049		0.00098	0.00049	
TOTAL METALS																						
Antimony, Total	7440-36-0			ND	4	0.42	ND	4	0.42	ND	4	0.42	ND	4	0.42	ND	4	0.42		4	0.42	
Arsenic, Total	7440-38-2			0.99	0.5	0.16	1.35	0.5	0.16	1.23	0.5	0.16	1.1	0.5	0.16	1.22	0.5	0.16		1.22	0.5	0.16
Barium, Total	7440-39-3			32.02	0.5	0.17	39.22	0.5	0.17	37.47	0.5	0.17	39.13	0.5	0.17	36.57	0.5	0.17		36.57	0.5	0.17
Beryllium, Total	7440-41-7			ND	0.5	0.1	ND	0.5	0.1	ND	0.5	0.1	ND	0.5	0.1	ND	0.5	0.1		ND	0.5	0.1
Cadmium, Total	7440-43-9			ND	0.2	0.05	ND	0.2	0.05	ND	0.2	0.05	ND	0.2	0.05	ND	0.2	0.05		ND	0.2	0.05
Chromium, Total	7440-47-3			1.55	1	0.17	2.51	1	0.17	1.56	1	0.17	1.91	1	0.17	1.76	1	0.17		1.76	1	0.17
Iron, Total	7439-89-6			640	50	19.1	1700	50	19.1	817	50	19.1	651	50	19.1	1240	50	19.1		1240	50	19.1
Manganese, Total	7439-96-5			56.61	1	0.44	131	1	0.44	68.68	1	0.44	67.47	1	0.44	90.77	1	0.44		90.77	1	0.44
Mercury, Total	7439-97-6			0.18	J	0.2	0.09	0.19	J	0.2	0.09											

Zinc, Total	7440-66-6		3.84	J	10	3.41	16.31	10	3.41	6.35	J	10	3.41	3.69	J	10	3.41	5.7	J	10	3.41	
GENERAL CHEMISTRY																						
Solids, Total Suspended	NONE		19000		5000	NA	49000		5000	NA	24000		5000	NA	20000		5000	NA	44000		5000	NA
Chloride	16887-00-6		410000		10000	8900	700000		10000	8900	870000		10000	8900	890000		20000	18000	640000		10000	8900
Fluoride	16984-48-8		110	J	200	10	150	J	200	10	150	J	200	10	140	J	200	10	140	J	200	10
Sulfate	14808-79-8		65000		25000	3400	98000		25000	3400	120000		50000	6800	130000		50000	6800	98000		25000	3400
Total Organic Carbon	7440-44-0		2460		500	97	1920		500	97	1800		500	97	1680		500	97	2040		500	97

* Comparison is not performed on parameters with non-numeric criteria.

NOCRIT: No Criteria Report -



Appendix 3
Tabulated Laboratory Results for Pump Sampling
Excluding “Non-Detect” Constituents

		1ST PRE-TRIAL				2ND PRE-TRIAL				3RD PRE-TRIAL				4TH PRE-TRIAL				IP-0HR-TRIAL				IP-30MIN-TRIAL				IP-1HR-TRIAL				IP-1HR 30MIN-TRIAL																					
SAMPLE ID:		L2249449-01				L2249449-02				L2249449-03				L2249449-04				L2249449-05				L2249449-06				L2249449-07				L2249449-08																					
LAB ID:		L2249449-01				L2249449-02				L2249449-03				L2249449-04				L2249449-05				L2249449-06				L2249449-07				L2249449-08																					
COLLECTION DATE:		9/9/2022				9/9/2022				9/9/2022				9/9/2022				9/9/2022				9/9/2022				9/9/2022																									
COLLECTION TIME:		7:00				7:30				8:00				8:30				9:20				9:50				10:20				10:50																					
SAMPLE MATRIX:		WATER				WATER				WATER				WATER				WATER				WATER				WATER																									
NOCRIT																																																			
ANALYTE		CAS		Conc		Q		RL		MDL		Conc		Q		RL		MDL		Conc		Q		RL		MDL		Conc		Q		RL		MDL		Conc		Q		RL		MDL									
VOLATILE ORGANICS BY GC/MS																																																			
Naphthalene		91-20-3		ND		2.5		0.7		1.1		J		2.5		0.7		ND		2.5		0.7		ND		2.5		0.7		ND		2.5		0.7		ND		2.5		0.7											
p-Diethylbenzene		105-05-5		ND		2		0.7		1.5		J		2		0.7		ND		2		0.7		ND		2		0.7		ND		2		0.7		ND		2		0.7											
1,2,4,5-Tetramethylbenzene		95-93-2		1.4		J		2		0.54		2.8		J		2		0.54		0.99		J		2		0.54		0.82		J		2		0.54		1		J		2		0.54									
Total VOCs				1.4						5.4								0.99								0.82						1						1.2													
1,4 DIOXANE BY 8270E-SIM																																																			
SEMIVOLATILE ORGANICS BY GC/MS																																																			
Benzoic Acid		65-85-0		ND		50		2.6		ND		50		2.6		ND		50		2.6		ND		50		2.6		ND		50		2.6		ND		50		2.6		8.3		J		50		2.6					
Total SVOCs				-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		8.3		-		-							
SEMIVOLATILE ORGANICS BY GC/MS-SIM																																																			
Acenaphthene		83-32-9		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01							
Fluoranthene		206-44-0		ND		0.1		0.02		ND		0.1		0.02		0.02		J		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		0.04		J		0.1		0.02									
Naphthalene		91-20-3		ND		0.1		0.05		0.24		0.1		0.05		0.16		0.1		0.05		0.09		J		0.1		0.05		0.14		0.1		0.05		0.16		0.1		0.05		0.1		0.05							
Benzo(a)anthracene		56-55-3		0.04		J		0.1		0.02		0.04		J		0.1		0.02		0.04		J		0.1		0.02		0.05		J		0.1		0.02		0.05		J		0.1		0.02									
Benzo(a)pyrene		50-32-8		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		0.06		J		0.1		0.02					
Benzo(b)fluoranthene		205-99-2		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		0.01		J		0.1		0.01		0.03		J		0.1		0.01		0.03		J		0.1		0.01							
Benzo(k)fluoranthene		207-08-9		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		0.02		J		0.1		0.01		0.01		J		0.1		0.01		0.01		J		0.1		0.01							
Chrysene		218-01-9		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		0.01		J		0.1		0.01					
Acenaphthylene		208-96-8		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01							
Anthracene		120-12-7		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01							
Benzo(ghi)perylene		191-24-2		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		0.03		J		0.1		0.01		0.02		J		0.1		0.01									
Fluorene		86-73-7		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01							
Phenanthrene		85-01-8		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		0.03		J		0.1		0.02					
Dibenzo(a,h)anthracene		53-70-3		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01							
Indeno(1,2,3-cd)pyrene		193-39-5		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		ND		0.1		0.01		0.04		J		0.1		0.01		0.02		J		0.1		0.01									
Pyrene		129-00-0		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		ND		0.1		0.02		0.03		J		0.1		0.02					
2-Methylnaphthalene		91-57-6		0.05		J		0.1		0.02		0.33		0.1		0.02		0.24		0.16		0.1		0.02		0.26		0.1		0.02		0.22		0.1		0.02		0.36		0.1		0.02									
Hexachlorobenzene		118-74-1		ND		0.8		0.01		ND		0.8		0.01		ND		0.8		0.01		ND		0.8		0.01		ND		0.8		0.01		ND		0.8		0.01		ND		0.8		0.01							
Total SVOCs				0.09				-		0.61				-		0.44				-		0.33				-		0.44				-		0.52				-		0.67				-							
ORGANOCHLORINE PESTICIDES BY GC																																																			
PCB CONGENERS (NOAA LIST)																																																			
Cl3-BZ#18		37690-65-2		0.00264		0.00101		0.000505		0.00265		0.00102		0.00051		0.00188		0.001		0.0005		0.00147		0.0012		0.000602		0.002		0.000995		0.000498		0.00195		0.001		0.0005		0.00185		0.001		0.000502		0.00178		0.00099		0.000495	
Cl3-BZ#28		7012-37-5		0.00206		0.00101		0.000505		0.00219		0.00102		0.00051		0.00164		0.001		0.0005		0.00144		0.0012		0.000602		0.00176		0.000995		0.000498		0.00154		0.001		0.0005		0.00144		0.001		0.000502		0.00152		0.00099		0.000495	
Cl4-BZ#49		41464-40-8		0.000799		J		0.00101		0.000505		0.000941		J		0.00102		0.00051		0.000846		J		0.001		0.0005		0.000698		J		0.0012		0.000602		0.000836		J		0.000995		0.000498		0.000815		J		0.001		0.0005	
Cl4-BZ#52		35693-99-3		0.00177		0.00101		0.000505		0.00138		0.00102		0.00051		0.00093		0.001		0.0005		0.000917		J		0.0012		0.000602		0.00102		0.000995		0.000498		0.00108		0.001		0.0005		0.000826		J		0.001		0.000502			
Cl5-BZ#101		37680-73-2		ND		0.00101		0.000505		ND		0.00102		0.00051		ND		0.001		0.0005		ND		0.0012		0.000602		ND		0.000995		0.000498		ND		0.001		0.0005		ND		0.001		0.000502		ND		0.00099		0.000495	
TOTAL METALS																																																			
Antimony, Total		7440-36-0		ND		4		0.42		ND		4		0.42		ND		4		0.42		ND		4		0.42		ND		4		0.42		ND		4		0.42		ND		4		0.42							
Arsenic, Total		7440-38-2		0.96		0.5		0.16		1.24		0.5		0.16		1.14		0.5		0.16		1		0.5		0.16		1.1		0.5		0.16		1.04		0.5		0.16		1.05		0.5		0.16							
Barium, Total		7440-39-3		31.26		0.5		0.17		32.3		0.5		0.17		32.69		0.5		0.17		31.86		0.5		0.17		30.77		0.5		0.17		33.02		0.5		0.17		33.02		0.5		0.17							
Chromium, Total		7440-47-3		0.89		J		1		0.17		0.89		J		1																																			

ANALYTE	CAS	IP-2HR-TRIAL		IP-2HR 30MIN-TRIAL				IP-3HR-TRIAL				IP-3HR 30MIN-TRIAL				IP-4HR-TRIAL				IP-4HR 30MIN-TRIAL				IP-5HR-TRIAL				IP-5HR 30MIN-TRIAL					
		LAB ID:		L2249449-09		L2249449-10		L2249449-11		L2249449-12		L2249449-13		L2249449-14		L2249449-15		L2249449-16															
		COLLECTION DATE:		9/9/2022		9/9/2022		9/9/2022		9/9/2022		9/9/2022		9/9/2022		9/9/2022		9/9/2022															
COLLECTION TIME:		11:20		12:20		12:50		13:20		14:20		14:35		14:55		15:30																	
SAMPLE MATRIX:		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER															
NOCRIT																																	
		Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL				
VOLATILE ORGANICS BY GC/MS																																	
Naphthalene	91-20-3	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7				
p-Diethylbenzene	105-05-5	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7				
1,2,4,5-Tetramethylbenzene	95-93-2	ND		2	0.54	ND		2	0.54	0.89	J	2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54				
Total VOCs		-	-	-	-	-	-	-	-	0.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1,4 DIOXANE BY 8270E-SIM																																	
SEMIVOLATILE ORGANICS BY GC/MS																																	
Benzoic Acid	65-85-0	ND		50	2.6	8.2	J	50	2.6	ND		50	2.6	ND		50	2.6	11	J	50	2.6	ND		50	2.6	ND		50	2.6				
Total SVOCs		-	-	-	-	8.2	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-				
SEMIVOLATILE ORGANICS BY GC/MS-SIM																																	
Acenaphthene	83-32-9	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01				
Fluoranthene	206-44-0	0.03	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.17		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02				
Naphthalene	91-20-3	0.09	J	0.1	0.05	0.1		0.1	0.05	0.09	J	0.1	0.05	0.07	J	0.1	0.05	ND		0.1	0.05	ND		0.1	0.05	ND		0.12	J	0.1	0.05		
Benzo(a)anthracene	56-55-3	0.05	J	0.1	0.02	0.05	J	0.1	0.02	0.05	J	0.1	0.02	0.23		0.1	0.02	0.04	J	0.1	0.02	0.05	J	0.1	0.02	0.04	J	0.1	0.02	0.05	J	0.1	0.02
Benzo(a)pyrene	50-32-8	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.2		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02
Benzo(b)fluoranthene	205-99-2	0.02	J	0.1	0.01	0.01	J	0.1	0.01	ND		0.1	0.01	0.34		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	0.01	J	0.1	0.01
Benzo(k)fluoranthene	207-08-9	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.11		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Chrysene	218-01-9	0.01	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.19		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Acenaphthylene	208-96-8	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.03	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Anthracene	120-12-7	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Benzo(ghi)perylene	191-24-2	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.23		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Fluorene	86-73-7	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Phenanthrene	85-01-8	0.02	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02
Dibenzo(a,h)anthracene	53-70-3	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.05	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Indeno(1,2,3-cd)pyrene	193-39-5	0.01	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	0.26		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01
Pyrene	129-00-0	0.03	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	0.17		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02	ND		0.1	0.02
2-Methylnaphthalene	91-57-6	0.2		0.1	0.02	0.24		0.1	0.02	0.22		0.1	0.02	0.18		0.1	0.02	0.08	J	0.1	0.02	ND		0.1	0.02	0.04	J	0.1	0.02	0.08	J	0.1	0.02
Hexachlorobenzene	118-74-1	0.02	J	0.8	0.01	0.02	J	0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01	ND		0.8	0.01
Total SVOCs		0.48	-	-	-	0.42	-	-	-	0.36	-	-	-	2.25	-	-	-	0.12	-	-	-	0.09	-	-	-	0.08	-	-	-	0.28	-	-	
ORGANOCHLORINE PESTICIDES BY GC																																	
PCB CONGENERS (NOAA LIST)																																	
C13-BZ#18	37690-65-2	0.0017		0.00101	0.000505	0.00196		0.001	0.0005	0.00225		0.000995	0.000498	0.00161		0.001	0.0005	0.00139		0.00099	0.000495	0.00171		0.00103	0.000515	0.00128		0.001	0.0005	0.00164		0.001	0.0005
C13-BZ#28	7012-37-5	0.00158		0.00101	0.000505	0.00189		0.001	0.0005	0.00208		0.000995	0.000498	0.00155		0.001	0.0005	0.0012		0.00099	0.000495	0.00142		0.00103	0.000515	0.00111		0.001	0.0005	0.00134		0.001	0.0005
C14-BZ#49	41464-40-8	0.000747	J	0.00101	0.000505	0.000932	J	0.001	0.0005	0.000914	J	0.000995	0.000498	0.00067	J	0.001	0.0005	0.000652	J	0.00099	0.000495	0.000691	J	0.00103	0.000515	0.000589	J	0.001	0.0005	0.000765	J	0.001	0.0005
C14-BZ#52	35693-99-3	0.000929	J	0.00101	0.000505	0.00102		0.001	0.0005	0.000984	J	0.000995	0.000498	0.000869	J	0.001	0.0005	0.000785	J	0.00099	0.000495	0.00097	J	0.00103	0.000515	0.000721	J	0.001	0.0005	0.000795	J	0.001	0.0005
C15-BZ#101	37680-73-2	ND		0.00101	0.000505	ND		0.001	0.0005	ND		0.000995	0.000498	ND		0.001	0.0005	ND		0.00099	0.000495	ND		0.00103	0.000515	ND		0.001	0.0005	ND		0.001	0.0005
TOTAL METALS																																	
Antimony, Total	7440-36-0	ND		4	0.42	ND		4	0.42	ND		4	0.42	ND		4	0.42	ND		4	0.42	ND		4	0.42	ND		4	0.42	ND		4	0.42
Arsenic, Total	7440-38-2	1.28		0.5	0.16	1.15		0.5	0.16	1.4		0.5	0.16	1.1		0.5	0.16	1.04		0.5	0.16	1.17		0.5	0.16	1.14		0.5	0.16	1.15		0.5	0.16
Barium, Total	7440-39-3	33.71		0.5	0.17	36		0.5	0.17	35.75		0.5	0.17	34.24		0.5	0.17	34.56		0.5	0.17	35.53		0.5	0.17	35.14		0.5	0.17	34.33		0.5	0.17
Chromium, Total	7440-47-3	0.59	J	1	0.17	1.02		1	0.17	0.97	J	1	0.17	0.47	J	1	0.17	0.54	J	1	0.17	0.61	J	1	0.17	0.57	J	1	0.17	0.54	J	1	0.17
Iron, Total	7439-89-6	534		50	19.1	828		50	19.1	889		50	19.1	480		50	19.1	373		50	19.1	688		50	19.1	399		50	19.1	504		50	19.1
Manganese, Total	7439-96-5	57.11		1	0.44	78.53		1	0.44	88.69		1	0.44	58.09		1	0.44	50.89		1	0.44	56.34		1	0.44	48.36		1	0.44	52.2		1	0.44
Mercury, Total	7439-97-6	0.13	J	0.2	0.09	0.13	J	0.2	0.09	0.12	J	0.2	0.09	0.13	J	0.2	0.09	0.13	J	0.2	0.09	0.13	J	0.2	0.09	0.11	J	0.2	0.09	0.11	J	0.2	0.09
Sodium, Total	7440-23-5	363000		100	29.3	376000		100	29.3	403000		100	29.3	450000		100	29.3	482000		100	29.3	454000		100	29.3	448000		100	29.3	420000		100	29.3
Thallium, Total																																	

ANALYTE	CAS	IP-6HR TRIAL				IP-6HR 30MIN TRIAL				IP-30MIN POST TRIAL				IP-1HR POST TRIAL				IP-1HR 30MIN POST TRIAL				IP-2HR POST TRIAL			
		SAMPLE ID:		IP-6HR TRIAL		IP-6HR 30MIN TRIAL		IP-30MIN POST TRIAL		IP-1HR POST TRIAL		IP-1HR 30MIN POST TRIAL		IP-2HR POST TRIAL											
		LAB ID:		L2249449-17		L2249449-18		L2249449-19		L2249449-20		L2249449-21		L2249449-22											
		COLLECTION DATE:		9/9/2022		9/9/2022		9/9/2022		9/9/2022		9/9/2022		9/9/2022											
		COLLECTION TIME:		16:00		16:30		17:35		18:05		18:35		19:05											
SAMPLE MATRIX:		WATER		WATER		WATER		WATER		WATER		WATER													
NOCRIT																									
		(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL			
VOLATILE ORGANICS BY GC/MS																									
Naphthalene	91-20-3		ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7	ND		2.5	0.7			
p-Diethylbenzene	105-05-5		ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7	ND		2	0.7			
1,2,4,5-Tetramethylbenzene	95-93-2		ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54	ND		2	0.54			
Total VOCs			-		-	-	-		-	-	-		-	-	-		-	-	-		-	-			
1,4 DIOXANE BY 8270E-SIM																									
SEMIVOLATILE ORGANICS BY GC/MS																									
Benzoic Acid	65-85-0		ND		50	2.6	ND		50	2.6	9.7	J	50	2.6	ND		50	2.6	ND		50	2.6			
Total SVOCs			-		-	-	-		-	-	9.7	-	-	-	-		-	-	-		-	-			
SEMIVOLATILE ORGANICS BY GC/MS-SIM																									
Acenaphthene	83-32-9		ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Fluoranthene	206-44-0		0.02	J	0.1	0.02	ND		0.1	0.02	0.03	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02			
Naphthalene	91-20-3		0.05	J	0.1	0.05	0.22		0.1	0.05	0.58		0.1	0.05	0.17		0.1	0.05	0.07	J	0.1	0.05			
Benzo(a)anthracene	56-55-3		0.05	J	0.1	0.02	0.04	J	0.1	0.02	0.06	J	0.1	0.02	0.04	J	0.1	0.02	0.04	J	0.1	0.02			
Benzo(a)pyrene	50-32-8		ND		0.1	0.02	ND		0.1	0.02	0.02	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02			
Benzo(b)fluoranthene	205-99-2		0.02	J	0.1	0.01	ND		0.1	0.01	0.03	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Benzo(k)fluoranthene	207-08-9		ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Chrysene	218-01-9		ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Acenaphthylene	208-96-8		ND		0.1	0.01	0.01	J	0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Anthracene	120-12-7		ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Benzo(ghi)perylene	191-24-2		ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Fluorene	86-73-7		ND		0.1	0.01	ND		0.1	0.01	0.02	J	0.1	0.01	0.02	J	0.1	0.01	ND		0.1	0.01			
Phenanthrene	85-01-8		ND		0.1	0.02	ND		0.1	0.02	0.04	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02			
Dibenzo(a,h)anthracene	53-70-3		ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Indeno(1,2,3-cd)pyrene	193-39-5		ND		0.1	0.01	ND		0.1	0.01	0.03	J	0.1	0.01	ND		0.1	0.01	ND		0.1	0.01			
Pyrene	129-00-0		0.02	J	0.1	0.02	ND		0.1	0.02	0.03	J	0.1	0.02	ND		0.1	0.02	ND		0.1	0.02			
2-Methylnaphthalene	91-57-6		0.13		0.1	0.02	0.09	J	0.1	0.02	0.17		0.1	0.02	0.08	J	0.1	0.02	0.09	J	0.1	0.02			
Hexachlorobenzene	118-74-1		ND		0.8	0.01	ND		0.8	0.01	0.01	J	0.8	0.01	0.01	J	0.8	0.01	ND		0.8	0.01			
Total SVOCs			0.29	-	-	-	0.36	-	-	-	1.12	-	-	-	0.15	-	-	-	0.3	-	-	-			
ORGANOCHLORINE PESTICIDES BY GC																									
PCB CONGENERS (NOAA LIST)																									
Cl3-BZ#18	37680-65-2		0.00179		0.00102	0.00051	0.00236		0.00099	0.000495	0.0019		0.001	0.0005	0.00304		0.001	0.0005	0.00261		0.00102	0.00051			
Cl3-BZ#28	7012-37-5		0.00143		0.00102	0.00051	0.00179		0.00099	0.000495	0.00141		0.001	0.0005	0.00248		0.001	0.0005	0.00218		0.00102	0.00051			
Cl4-BZ#49	41464-40-8		0.000806	J	0.00102	0.00051	0.00103		0.00099	0.000495	0.000893	J	0.001	0.0005	0.0014		0.001	0.0005	0.00108		0.00102	0.00051			
Cl4-BZ#52	35693-99-3		0.000812	J	0.00102	0.00051	0.00101		0.00099	0.000495	0.000815	J	0.001	0.0005	0.00138		0.001	0.0005	0.00117		0.00102	0.00051			
Cl5-BZ#101	37680-73-2		ND		0.00102	0.00051	0.000556	J	0.00099	0.000495	ND		0.001	0.0005	ND		0.001	0.0005	ND		0.00102	0.00051			
TOTAL METALS																									
Antimony, Total	7440-36-0		ND		4	0.42	ND		4	0.42	ND		4	0.42	ND		4	0.42	0.58	J	4	0.42			
Arsenic, Total	7440-38-2		1.24		0.5	0.16	1.16		0.5	0.16	1.17		0.5	0.16	1.11		0.5	0.16	1.11		0.5	0.16			
Barium, Total	7440-39-3		36.65		0.5	0.17	33.66		0.5	0.17	32.65		0.5	0.17	32.21		0.5	0.17	31.73		0.5	0.17			
Chromium, Total	7440-47-3		0.78	J	1	0.17	0.48	J	1	0.17	0.51	J	1	0.17	0.9	J	1	0.17	0.73	J	1	0.17			
Iron, Total	7439-89-6		613		50	19.1	409		50	19.1	364		50	19.1	414		50	19.1	477		50	19.1			
Manganese, Total	7439-96-5		58.4		1	0.44	45.97		1	0.44	44.37		1	0.44	46.77		1	0.44	44.13		1	0.44			
Mercury, Total	7439-97-6		0.11	J	0.2	0.09	0.11	J	0.2	0.09	0.11	J	0.2	0.09	0.12	J	0.2	0.09	0.11	J	0.2	0.09			
Sodium, Total	7440-23-5		425000		100	29.3	382000		100	29.3	314000		100	29.3	260000		100	29.3	198000		100	29.3			
Thallium, Total	7440-28-0		ND		1	0.14	ND		1	0.14	ND		1	0.14	ND		1	0.14	0.19	J	1	0.14			
Zinc, Total	7440-66-6		9.38	J	10	3.41	6.94	J	10	3.41	7.11	J	10	3.41	9.27	J	10	3.41	6.65	J	10	3.41			
GENERAL CHEMISTRY																									
Solids, Total Suspended	NONE		19000		5000	NA	14000		5000	NA	14000		5000	NA	18000		5000	NA	17000		5000	NA			
Chloride	16887-00-6		780000		10000	8900	710000		20000	18000	550000		10000	8900	490000		10000	8900	420000		10000	8900			
Fluoride	16984-48-8		150	J	200	10	150	J	200	10	130	J	200	10	110	J	200	10	120	J	200	10			
Sulfate	14808-79-8		98000		25000	3400	98000		25000	3400	85000		25000	3400	84000		25000	3400	73000		25000	3400			
Total Organic Carbon	7440-44-0		1320		500	97	1410		500	97	1570		500	97	1700		500	97	2440		500	97			

* Comparison is not performed on parameters with non-numeric criteria.

NOCRIT: No Criteria Report -



Appendix 4
Laboratory Results



**NEW JERSEY
CHAIN OF
CUSTODY**

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

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

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

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Date Rec'd
in Lab

ALPHA Job #

Client Information		Project Information		Deliverables		Billing Information	
Client: <i>Normandeau</i>		Project Name: <i>HUDSON RIVER WATER STUDY</i>		<input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		<input type="checkbox"/> Same as Client Info PO #	
Address:		Project Location: <i>CLIFSEA, NY</i>		Regulatory Requirement		Site Information	
Phone: <i>603-319-5013</i>		Project #		<input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other		Is this site impacted by Petroleum? Yes <input type="checkbox"/>	
Fax: <i>603-384-6399</i>		(Use Project name as Project #) <input type="checkbox"/>		Turn-Around Time		Petroleum Product:	
Email: <i>mtaylor@normandeau.com</i>		Project Manager: <i>Mike Taylor</i>		Standard <input type="checkbox"/> Due Date:			
		ALPHAQuote #: <i>19745</i>		Rush (only if pre approved) <input type="checkbox"/> # of Days:			

These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS						Sample Filtration		Total Bottle
For EPH, selection is REQUIRED:	For VOC, selection is REQUIRED:	Other project specific requirements/comments:						<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2	<input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011	Please specify Metals or TAL.									

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments
		Date	Time			PCB 8182-Low	Soil CLF	TSS 2540	8705101 LVI 115	1120001	1120001	TOTAL METALS	AZ-N-DIOXANE/THIOPH	PCB	TDC	
	1ST PRE-TRIAL	9/9/22	0700	W	KS	2	1	1	2	2	33	1	2			
	2nd PRE-TRIAL	9/9/22	0730	W	KS	2	1	1	2	2	33	1	2			
	3RD PRE-TRIAL	9/9/22	0800	W	KS	2	1	1	2	2	33	1	2			
	4th PRE-TRIAL	9/9/22	0830	W	KS	2	1	1	2	2	33	1	2			
	1st HR - TRIAL	9/9/22	0920	W	KS	2	1	1	2	2	33	1	2			
	1st 30 MIN - TRIAL	9/9/22	0950	W	KS	2	1	1	2	2	33	1	2			
	1P-1 HR - TRIAL	9/9/22	1020	W	KS	2	1	1	2	2	33	1	2			
	1P-1 HR 30 MIN WITH	9/9/22	1050	W	KS	2	1	1	2	2	33	1	2			
	1P-2 HR - TRIAL	9/9/22	1120	W	KS	2	1	1	2	2	33	1	2			
	1P-2 HR 30 MIN TRIAL	9/9/22	1200	W	KS	2	1	1	2	2	33	1	2			

Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type A B P A A V V P A	Preservative N N N N N B D C N	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
---	--	---	-------------------------------------	-----------------------------------	--

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Tom Dine</i>	9/12/22 1255	<i>Don Dam</i>	9/12/22 1305
<i>Don Dam</i>	9/12/22		

① PCB CONCENTRERS - EPA 8270D/NOAA



**NEW JERSEY
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CUSTODY**

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

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

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

Page

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Date Rec'd
in Lab

ALPHA Job #

Client Information

Client: *Normandean*
Address:
Phone: *603-319-5013*
Fax: *603-334-6397*
Email: *mtaylor@normandean.com*

Project Information

Project Name: *Hudson 7 River Water Study*
Project Location: *Chelsea NY*
Project #
(Use Project name as Project #)
Project Manager: *Mike Taylor*
ALPHAQuote #: *19745*

Turn-Around Time

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

Deliverables

NJ Full / Reduced
 EQuIS (1 File) EQuIS (4 File)
 Other

Regulatory Requirement

SRS Residential/Non Residential
 SRS Impact to Groundwater
 NJ Ground Water Quality Standards
 NJ IGW SPLP Leachate Criteria
 Other

Billing Information

Same as Client Info
PO#

Site Information

Is this site impacted by
Petroleum? Yes
Petroleum Product:

These samples have been previously analyzed by Alpha

**For EPH, selection is
REQUIRED:**

Category 1
 Category 2

**For VOC, selection
is REQUIRED:**

1,4-Dioxane
 8011

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

<i>PCB-8082 - Low</i>	<i>504 CL F</i>	<i>TSS 2540</i>	<i>1,7,8 PCB</i>	<i>1,2,3,4,6,7,8 PCB</i>	<i>MSL 62</i>	<i>TOTAL METALS</i>	<i>AZ-1,4-DIOXANE - PPE</i>
2	1	1	2	2	3	1	2

Sample Filtration

Done
 Lab to do
Preservation
 Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID
(Lab Use Only)

Sample ID
INTAKE PUMP SAMPLES

Collection
Date Time

Sample Matrix

Sampler's Initials

ALPHA Lab ID	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
	<i>IP-3HR TRIAL</i>	<i>9/9/22</i>	<i>1250</i>	<i>W</i>	<i>KS</i>
	<i>IP-3HR 30MIN TRIAL</i>	<i>9/9/22</i>	<i>1320</i>	<i>W</i>	<i>KS</i>
	<i>IP-4HR TRIAL</i>	<i>9/9/22</i>	<i>1420</i>	<i>W</i>	<i>KS</i>
	<i>IP-4HR 30MIN TRIAL</i>	<i>9/9/22</i>	<i>1435</i>	<i>W</i>	<i>KS</i>
	<i>IP-5HR TRIAL</i>	<i>9/9/22</i>	<i>1455</i>	<i>W</i>	<i>KS</i>
	<i>IP-5HR 30MIN TRIAL</i>	<i>9/9/22</i>	<i>1530</i>	<i>W</i>	<i>KS</i>
	<i>IP-6HR TRIAL</i>	<i>9/9/22</i>	<i>1600</i>	<i>W</i>	<i>KS</i>
	<i>IP-6HR 30MIN TRIAL</i>	<i>9/9/22</i>	<i>1630</i>	<i>W</i>	<i>KS</i>
	<i>IP-30 MIN Post Trial</i>	<i>9/9/22</i>	<i>1735</i>	<i>W</i>	<i>KS</i>
	<i>IP-1HR 30MIN Post Trial</i>	<i>9/9/22</i>	<i>1805</i>	<i>W</i>	<i>KS</i>

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

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

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type

Preservative

<i>A</i>	<i>P</i>	<i>P</i>	<i>A</i>	<i>A</i>	<i>V</i>	<i>V</i>	<i>P</i>	<i>A</i>
<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>B</i>	<i>D</i>	<i>C</i>	<i>N</i>

Relinquished By:

Date/Time

Received By:

Date/Time

<i>Tom Doherty</i>	<i>9/12/22 1255</i>	<i>Don Doherty</i>	<i>9/12/22 1305</i>
<i>Don Doherty</i>	<i>9/12/22</i>		

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

① PCB CONCENTERS - EPA 8270 D / NOAA



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Page

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Date Rec'd
in Lab

ALPHA Job #

Client Information		Project Information		Deliverables		Billing Information	
Client: NORMANDEAU		Project Name: HUDSON 7 RIVER WATER STUDY		<input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		<input type="checkbox"/> Same as Client Info PO #	
Address:		Project Location: CHELSEA, NY		Regulatory Requirement		Site Information	
Phone: 603-319-5013		Project #		<input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other		Is this site impacted by Petroleum? Yes <input type="checkbox"/>	
Fax: 603-334-6397		(Use Project name as Project #) <input type="checkbox"/>		Turn-Around Time		Petroleum Product:	
Email: MTAYLOR@NORMANDEAU.COM		Project Manager: MIKE TAYLOR		Standard <input type="checkbox"/> Due Date:			
		ALPHAQuote #: 19745		Rush (only if pre approved) <input type="checkbox"/> # of Days:			

These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS				Sample Filtration		
For EPH, selection is REQUIRED:	For VOC, selection is REQUIRED:	Other project specific requirements/comments:						<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	
<input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2	<input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011	Please specify Metals or TAL.							

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments			
		Date	Time																
	P-1 1hr 30 min Post Trial	9/9/22	1835	W	KS														
	P-2 1hr Post Trial	9/9/22	1905	W	KS														

Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type												Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)											
Form No: 01-14 HC (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time																							
		Tom Doherty		9/12/22 1255		Don Darr		9/12/22 1345																							
		Don Darr		9/12/22																											

Total Bottles



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Page

1 of 1

Date Rec'd
in Lab

ALPHA Job #

Client Information		Project Information		Deliverables		Billing Information	
Client: <u>Normandean</u>		Project Name: <u>HUDSON 7 RIVER WATER STUDY</u>		<input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<input type="checkbox"/> Same as Client Info PO #	
Address:		Project Location: <u>CHELSEA, NY</u>		Project #		Regulatory Requirement	
Phone: <u>603-319-5013 Mike</u>		(Use Project name as Project #) <input type="checkbox"/>		Project Manager: <u>Mike Taylor</u>		<input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other	
Fax: <u>603-334-6397 Taylor</u>		ALPHAQuote #: <u>19745</u>		Turn-Around Time		Site Information	
Email: <u>mtaylor@normandean.com</u>		Standard <input type="checkbox"/>		Due Date:		Is this site impacted by Petroleum? Yes <input type="checkbox"/>	
		Rush (only if pre approved) <input type="checkbox"/>		# of Days:		Petroleum Product:	

These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS										Sample Filtration		Total Bottles
For EPH, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2		For VOC, selection is REQUIRED: <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011		Other project specific requirements/comments: Please specify Metals or TAL.										<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments
		Date	Time			PCB 8082-LOW	SO4 CL F	TSS 2540	8270000 DMS	170025	18004	NO 8260	100	TOTAL 14 TOTAL METALS	AZ-14 DIOXANE IN - PPB	
	<u>1/4 MILE UPSTREAM</u>	<u>9-9-22</u>	<u>0815</u>	<u>W</u>	<u>WR</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>1</u>	<u>2</u>		
	<u>1/2 MILE UPSTREAM</u>	<u>9-9-22</u>	<u>1210</u>	<u>W</u>	<u>WR</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>1</u>	<u>2</u>		
	<u>NEAREST INTAKE</u>	<u>9-9-22</u>	<u>1414</u>	<u>W</u>	<u>WR</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>1</u>	<u>2</u>		
	<u>1/8 MILE DOWNSTREAM</u>	<u>9-9-22</u>	<u>1500</u>	<u>W</u>	<u>WR</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>1</u>	<u>2</u>		
	<u>1/4 MILE DOWNSTREAM</u>	<u>9-9-22</u>	<u>1708</u>	<u>W</u>	<u>WR</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>1</u>	<u>2</u>		

Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		<table border="1"> <tr> <td>A</td><td>P</td><td>P</td><td>A</td><td>A</td><td>V</td><td>V</td><td>P</td><td>A</td> <td>N</td><td>N</td><td>N</td><td>N</td><td>N</td><td>N</td><td>B</td><td>D</td><td>C</td><td>N</td> </tr> </table>										A	P	P	A	A	V	V	P	A	N	N	N	N	N	N	B	D	C	N	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
A	P	P	A	A	V	V	P	A	N	N	N	N	N	N	B	D	C	N																				
Form No: 01-14 HC (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time																														
		<u>Tom DeLore</u>		<u>9-9-22/1045</u>		<u>Tom DeLore</u>		<u>9/12/22 0715</u>																														
		<u>Don D'Arc</u>		<u>9/12/22/1255</u>		<u>Don D'Arc</u>		<u>9/12/22 1305</u>																														
		<u>Don D'Arc</u>		<u>9/12/22</u>																																		

⊕ PCB Congeners - EPA 8270D/NOAA



ANALYTICAL REPORT

Lab Number:	L2249449
Client:	Normandeau Associates, Inc. 600 Beach Road West Haverstraw, NY 10993
ATTN:	Mike Taylor
Phone:	(603) 637-1193
Project Name:	HUDSON 7 RIVER WATER STUDY
Project Number:	24711.001
Report Date:	10/04/22

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: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249449

Report Date: 10/04/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2249449-01	1ST PRE-TRIAL	WATER	CHELSEA, NY	09/09/22 07:00	09/12/22
L2249449-02	2ND PRE-TRIAL	WATER	CHELSEA, NY	09/09/22 07:30	09/12/22
L2249449-03	3RD PRE-TRIAL	WATER	CHELSEA, NY	09/09/22 08:00	09/12/22
L2249449-04	4TH PRE-TRIAL	WATER	CHELSEA, NY	09/09/22 08:30	09/12/22
L2249449-05	IP-0HR-TRIAL	WATER	CHELSEA, NY	09/09/22 09:20	09/12/22
L2249449-06	IP-30MIN-TRIAL	WATER	CHELSEA, NY	09/09/22 09:50	09/12/22
L2249449-07	IP-1HR-TRIAL	WATER	CHELSEA, NY	09/09/22 10:20	09/12/22
L2249449-08	IP-1HR 30MIN-TRIAL	WATER	CHELSEA, NY	09/09/22 10:50	09/12/22
L2249449-09	IP-2HR-TRIAL	WATER	CHELSEA, NY	09/09/22 11:20	09/12/22
L2249449-10	IP-2HR 30MIN-TRIAL	WATER	CHELSEA, NY	09/09/22 12:20	09/12/22
L2249449-11	IP-3HR-TRIAL	WATER	CHELSEA, NY	09/09/22 12:50	09/12/22
L2249449-12	IP-3HR 30MIN-TRIAL	WATER	CHELSEA, NY	09/09/22 13:20	09/12/22
L2249449-13	IP-4HR-TRIAL	WATER	CHELSEA, NY	09/09/22 14:20	09/12/22
L2249449-14	IP-4HR 30MIN-TRIAL	WATER	CHELSEA, NY	09/09/22 14:35	09/12/22
L2249449-15	IP-5HR-TRIAL	WATER	CHELSEA, NY	09/09/22 14:55	09/12/22
L2249449-16	IP-5HR 30MIN-TRIAL	WATER	CHELSEA, NY	09/09/22 15:30	09/12/22
L2249449-17	IP-6HR-TRIAL	WATER	CHELSEA, NY	09/09/22 16:00	09/12/22
L2249449-18	IP-6HR 30MIN-TRIAL	WATER	CHELSEA, NY	09/09/22 16:30	09/12/22
L2249449-19	IP-30MIN POST-TRIAL	WATER	CHELSEA, NY	09/09/22 17:35	09/12/22
L2249449-20	IP-1HR POST-TRIAL	WATER	CHELSEA, NY	09/09/22 18:05	09/12/22
L2249449-21	IP-1HR 30MIN POST-TRIAL	WATER	CHELSEA, NY	09/09/22 18:35	09/12/22
L2249449-22	IP-2HR POST-TRIAL	WATER	CHELSEA, NY	09/09/22 19:05	09/12/22

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

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: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

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.

Volatile Organics

The WG1690756-3/-4 LCS/LCSD recoveries, associated with L2249449-15, are below the individual acceptance criteria for vinyl acetate (69%/66%), 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.

Total Metals

The WG1687626-3 MS recovery for sodium (10%), performed on L2249449-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1687630-3 MS recovery for sodium (430%), performed on L2249449-21, does not apply because the sample concentration is greater than four times the spike amount added.

Chloride

The WG1693156-4 MS recovery, performed on L2249449-06, is outside the acceptance criteria for chloride (0%); however, the associated LCS recovery is within criteria. No further action was taken.

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

Authorized Signature:

 Elizabeth Porta

Title: Technical Director/Representative

Date: 10/04/22

ORGANICS

VOLATILES

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 13:01
 Analyst: PD

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	1.4	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	116		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 13:26
 Analyst: PD

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
Client ID: 2ND PRE-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
Date Received: 09/12/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.1	J	ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	1.5	J	ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	2.8		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	114		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 13:51
 Analyst: PD

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
Client ID: 3RD PRE-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
Date Received: 09/12/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	0.99	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	115		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 14:15
 Analyst: PD

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	0.82	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	118		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 14:41
 Analyst: PD

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	1.0	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	118		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 15:05
 Analyst: PD

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	113		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 19:41
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	1.2	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 20:00
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 20:20
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 20:39
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 20:59
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	0.89	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 21:19
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	109		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 21:38
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 21:58
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/22 19:40
 Analyst: MV

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 22:38
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 22:57
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 23:17
 Analyst: TMS

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	109		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 23:37
 Analyst: KJD

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	112		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 23:56
 Analyst: KJD

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/22 00:16
 Analyst: KJD

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
Client ID: IP-1HR 30MIN POST-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
Date Received: 09/12/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	109		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/22 00:36
 Analyst: KJD

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

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/22 11:21
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1690243-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: HUDSON 7 RIVER WATER STUDY
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Analytical Method: 1,8260C
Analytical Date: 09/20/22 11:21
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1690243-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

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Analytical Date: 09/20/22 11:21
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1690243-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/21/22 18:22
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 15 Batch: WG1690756-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: HUDSON 7 RIVER WATER STUDY
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/21/22 18:22
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 15 Batch: WG1690756-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: HUDSON 7 RIVER WATER STUDY
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Batch Quality Control

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Analytical Date: 09/21/22 18:22
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 15 Batch: WG1690756-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	107		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/22 18:48
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-14,16-22 Batch: WG1690954-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: HUDSON 7 RIVER WATER STUDY
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Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/22 18:48
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-14,16-22 Batch: WG1690954-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

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Analytical Date: 09/20/22 18:48
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-14,16-22 Batch: WG1690954-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1690243-3 WG1690243-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	120		120		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	160	Q	170	Q	62-150	6		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	96		96		70-130	0		20
cis-1,3-Dichloropropene	99		100		70-130	1		20
1,1-Dichloropropene	110		120		70-130	9		20
Bromoform	92		95		54-136	3		20
1,1,1,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	50		55		39-139	10		20

Lab Control Sample Analysis

Batch Quality Control

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Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1690243-3 WG1690243-4								
Vinyl chloride	130		140		55-140	7		20
Chloroethane	150	Q	150	Q	55-138	0		20
1,1-Dichloroethene	120		130		61-145	8		20
trans-1,2-Dichloroethene	120		120		70-130	0		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	100		110		70-130	10		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	89		92		63-130	3		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	110		120		70-130	9		20
Dibromomethane	110		110		70-130	0		20
1,2,3-Trichloropropane	95		96		64-130	1		20
Acrylonitrile	96		100		70-130	4		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	100		110		36-147	10		20
Acetone	65		69		58-148	6		20
Carbon disulfide	120		130		51-130	8		20
2-Butanone	97		100		63-138	3		20
Vinyl acetate	92		95		70-130	3		20
4-Methyl-2-pentanone	69		76		59-130	10		20
2-Hexanone	68		69		57-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1690243-3 WG1690243-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	110		120		63-133	9		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	94		96		64-130	2		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	100		90		70-130	11		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	90		96		41-144	6		20
Hexachlorobutadiene	96		100		63-130	4		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		110		70-130	10		20
Naphthalene	90		96		70-130	6		20
n-Propylbenzene	100		110		69-130	10		20
1,2,3-Trichlorobenzene	94		100		70-130	6		20
1,2,4-Trichlorobenzene	95		99		70-130	4		20
1,3,5-Trimethylbenzene	97		100		64-130	3		20
1,2,4-Trimethylbenzene	96		100		70-130	4		20
1,4-Dioxane	86		96		56-162	11		20
p-Diethylbenzene	99		100		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1690243-3 WG1690243-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	91		95		70-130	4		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	85		83		70-130	2		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	94		96		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	101		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1690756-3 WG1690756-4								
Methylene chloride	95		97		70-130	2		20
1,1-Dichloroethane	98		98		70-130	0		20
Chloroform	94		91		70-130	3		20
Carbon tetrachloride	96		96		63-132	0		20
1,2-Dichloropropane	95		93		70-130	2		20
Dibromochloromethane	87		84		63-130	4		20
1,1,2-Trichloroethane	85		84		70-130	1		20
Tetrachloroethene	95		93		70-130	2		20
Chlorobenzene	95		94		75-130	1		20
Trichlorofluoromethane	96		97		62-150	1		20
1,2-Dichloroethane	78		76		70-130	3		20
1,1,1-Trichloroethane	88		88		67-130	0		20
Bromodichloromethane	83		84		67-130	1		20
trans-1,3-Dichloropropene	87		88		70-130	1		20
cis-1,3-Dichloropropene	89		87		70-130	2		20
1,1-Dichloropropene	90		91		70-130	1		20
Bromoform	86		86		54-136	0		20
1,1,2,2-Tetrachloroethane	83		81		67-130	2		20
Benzene	98		96		70-130	2		20
Toluene	94		96		70-130	2		20
Ethylbenzene	96		96		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	65		64		39-139	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1690756-3 WG1690756-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	96		100		61-145	4		20
trans-1,2-Dichloroethene	89		93		70-130	4		20
Trichloroethene	96		95		70-130	1		20
1,2-Dichlorobenzene	93		89		70-130	4		20
1,3-Dichlorobenzene	96		92		70-130	4		20
1,4-Dichlorobenzene	94		89		70-130	5		20
Methyl tert butyl ether	63		63		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	92		93		70-130	1		20
Dibromomethane	85		80		70-130	6		20
1,2,3-Trichloropropane	85		78		64-130	9		20
Acrylonitrile	91		89		70-130	2		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	100		97		36-147	3		20
Acetone	100		100		58-148	0		20
Carbon disulfide	99		110		51-130	11		20
2-Butanone	86		85		63-138	1		20
Vinyl acetate	69	Q	66	Q	70-130	4		20
4-Methyl-2-pentanone	73		76		59-130	4		20
2-Hexanone	76		78		57-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1690756-3 WG1690756-4								
Bromochloromethane	91		92		70-130	1		20
2,2-Dichloropropane	86		82		63-133	5		20
1,2-Dibromoethane	86		83		70-130	4		20
1,3-Dichloropropane	88		86		70-130	2		20
1,1,1,2-Tetrachloroethane	92		90		64-130	2		20
Bromobenzene	91		88		70-130	3		20
n-Butylbenzene	96		94		53-136	2		20
sec-Butylbenzene	100		97		70-130	3		20
tert-Butylbenzene	97		94		70-130	3		20
o-Chlorotoluene	98		94		70-130	4		20
p-Chlorotoluene	98		93		70-130	5		20
1,2-Dibromo-3-chloropropane	93		87		41-144	7		20
Hexachlorobutadiene	86		82		63-130	5		20
Isopropylbenzene	99		95		70-130	4		20
p-Isopropyltoluene	97		92		70-130	5		20
Naphthalene	82		77		70-130	6		20
n-Propylbenzene	100		97		69-130	3		20
1,2,3-Trichlorobenzene	88		83		70-130	6		20
1,2,4-Trichlorobenzene	88		83		70-130	6		20
1,3,5-Trimethylbenzene	92		89		64-130	3		20
1,2,4-Trimethylbenzene	90		87		70-130	3		20
1,4-Dioxane	88		100		56-162	13		20
p-Diethylbenzene	92		87		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249449

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15 Batch: WG1690756-3 WG1690756-4								
p-Ethyltoluene	97		94		70-130	3		20
1,2,4,5-Tetramethylbenzene	83		80		70-130	4		20
Ethyl ether	68		74		59-134	8		20
trans-1,4-Dichloro-2-butene	84		78		70-130	7		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	85		85		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	102		98		70-130
Dibromofluoromethane	99		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-14,16-22 Batch: WG1690954-3 WG1690954-4								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	99		100		70-130	1		20
Chloroform	95		96		70-130	1		20
Carbon tetrachloride	99		100		63-132	1		20
1,2-Dichloropropane	92		96		70-130	4		20
Dibromochloromethane	90		91		63-130	1		20
1,1,2-Trichloroethane	89		92		70-130	3		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	98		99		75-130	1		20
Trichlorofluoromethane	100		98		62-150	2		20
1,2-Dichloroethane	81		85		70-130	5		20
1,1,1-Trichloroethane	94		94		67-130	0		20
Bromodichloromethane	86		89		67-130	3		20
trans-1,3-Dichloropropene	92		94		70-130	2		20
cis-1,3-Dichloropropene	92		94		70-130	2		20
1,1-Dichloropropene	94		97		70-130	3		20
Bromoform	92		94		54-136	2		20
1,1,2,2-Tetrachloroethane	84		87		67-130	4		20
Benzene	98		100		70-130	2		20
Toluene	99		100		70-130	1		20
Ethylbenzene	98		100		70-130	2		20
Chloromethane	100		100		64-130	0		20
Bromomethane	61		61		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-14,16-22 Batch: WG1690954-3 WG1690954-4								
Vinyl chloride	100		110		55-140	10		20
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	99		100		70-130	1		20
Trichloroethene	97		100		70-130	3		20
1,2-Dichlorobenzene	94		95		70-130	1		20
1,3-Dichlorobenzene	98		98		70-130	0		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	66		75		63-130	13		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	94		97		70-130	3		20
Dibromomethane	87		89		70-130	2		20
1,2,3-Trichloropropane	84		88		64-130	5		20
Acrylonitrile	84		86		70-130	2		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	96		110		58-148	14		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	80		90		63-138	12		20
Vinyl acetate	71		77		70-130	8		20
4-Methyl-2-pentanone	77		82		59-130	6		20
2-Hexanone	76		78		57-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-14,16-22 Batch: WG1690954-3 WG1690954-4								
Bromochloromethane	96		97		70-130	1		20
2,2-Dichloropropane	92		93		63-133	1		20
1,2-Dibromoethane	88		91		70-130	3		20
1,3-Dichloropropane	89		92		70-130	3		20
1,1,1,2-Tetrachloroethane	95		97		64-130	2		20
Bromobenzene	92		94		70-130	2		20
n-Butylbenzene	98		99		53-136	1		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	99		100		70-130	1		20
o-Chlorotoluene	97		99		70-130	2		20
p-Chlorotoluene	98		98		70-130	0		20
1,2-Dibromo-3-chloropropane	89		94		41-144	5		20
Hexachlorobutadiene	89		86		63-130	3		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	98		98		70-130	0		20
Naphthalene	82		84		70-130	2		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	89		89		70-130	0		20
1,2,4-Trichlorobenzene	90		90		70-130	0		20
1,3,5-Trimethylbenzene	94		95		64-130	1		20
1,2,4-Trimethylbenzene	93		93		70-130	0		20
1,4-Dioxane	94		100		56-162	6		20
p-Diethylbenzene	94		94		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-14,16-22 Batch: WG1690954-3 WG1690954-4								
p-Ethyltoluene	99		100		70-130	1		20
1,2,4,5-Tetramethylbenzene	85		84		70-130	1		20
Ethyl ether	82		85		59-134	4		20
trans-1,4-Dichloro-2-butene	71		78		70-130	9		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	86		88		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	100		98		70-130

SEMIVOLATILES

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/16/22 23:03
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	73		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 14:25
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	32		10-120
4-Terphenyl-d14	95		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 10:41
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			48		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/16/22 23:26
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	77		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 14:41
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.24		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.33		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	41		10-120
4-Terphenyl-d14	100		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 11:04
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			48		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/16/22 23:48
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	76		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 14:58
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.16		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.24		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	90		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 11:28
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			54		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 00:11
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	75		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 15:15
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.16		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	98		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 11:51
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			49		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 00:33
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	50		10-120
4-Terphenyl-d14	69		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 15:31
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.14		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.26		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	32		10-120
4-Terphenyl-d14	87		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 12:15
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	53		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 00:56
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	50		10-120
4-Terphenyl-d14	78		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 13:39
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.11		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.22		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	26		10-120
4-Terphenyl-d14	93		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 12:38
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	50		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 01:18
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	94		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 13:56
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.16		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	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	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.36		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	68		10-120
Nitrobenzene-d5	117		23-120
2-Fluorobiphenyl	105		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	115		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 13:02
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	52		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 01:41
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	8.3	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	84		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 14:13
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.10		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.23		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	96		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 13:26
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.156	0.0353	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			54		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 02:03
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	79		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 14:29
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-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	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	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	ND		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	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.02	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.20		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	0.02	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	92		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 13:50
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	50		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 02:26
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	8.2	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	44		10-120
4-Terphenyl-d14	86		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 14:46
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.10		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.24		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	0.02	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	37		10-120
4-Terphenyl-d14	100		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 14:14
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			53		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 02:49
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	47		10-120
4-Terphenyl-d14	87		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 15:02
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.22		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	44		10-120
4-Terphenyl-d14	99		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 14:38
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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1,4 Dioxane by 8270E-SIM - Mansfield Lab						
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1,4-Dioxane	ND		ug/l	0.139	0.0314	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
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1,4-Dioxane-d8	51		15-110
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Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 03:11
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	46		10-120
4-Terphenyl-d14	95		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 15:19
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.17		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.23		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.20		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.34		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.11		ug/l	0.10	0.01	1
Chrysene	0.19		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.23		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.26		ug/l	0.10	0.01	1
Pyrene	0.17		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.18		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	29		10-120
4-Terphenyl-d14	97		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 15:03
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	51		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 03:34
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	11.	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	97		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 15:36
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.08	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	105		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	112		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 15:27
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	51		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 03:56
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	44		10-120
4-Terphenyl-d14	80		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 15:52
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:50

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	34		10-120
4-Terphenyl-d14	93		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 15:51
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	52		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 04:19
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	47		10-120
4-Terphenyl-d14	79		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 16:09
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:50

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	44		10-120
4-Terphenyl-d14	94		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 16:15
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	50		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 04:42
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	98		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 15:48
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.12		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.08	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	66		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	46		10-120
4-Terphenyl-d14	115		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 16:39
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	49		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 05:04
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	50		10-120
4-Terphenyl-d14	81		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 16:04
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.05	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	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	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.13		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	45		10-120
4-Terphenyl-d14	97		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 17:03
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			49		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 05:27
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	75		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 16:21
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.22		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.01	J	ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.09	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	40		10-120
4-Terphenyl-d14	94		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 17:27
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	49		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 05:49
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	9.7	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	41		10-120
4-Terphenyl-d14	85		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 16:25
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	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	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.58		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	ND		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	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.03	J	ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.17		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	24		10-120
4-Terphenyl-d14	96		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 17:51
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	53		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/17/22 06:12
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	90		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 16:42
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.08	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	40		10-120
4-Terphenyl-d14	106		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 18:15
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	51		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/16/22 16:03
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	34		23-120
2-Fluorobiphenyl	39		15-120
2,4,6-Tribromophenol	32		10-120
4-Terphenyl-d14	42		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 16:59
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.17		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.09	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	22		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	43		23-120
2-Fluorobiphenyl	40		15-120
2,4,6-Tribromophenol	23		10-120
4-Terphenyl-d14	41		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 14:55
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			58		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/16/22 16:25
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	33		23-120
2-Fluorobiphenyl	38		15-120
2,4,6-Tribromophenol	36		10-120
4-Terphenyl-d14	43		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 17:15
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.08	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	43		15-120
2,4,6-Tribromophenol	29		10-120
4-Terphenyl-d14	44		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 15:14
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			60		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/15/22 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21-22 Batch: WG1687634-1					
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
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
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	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/15/22 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21-22 Batch: WG1687634-1					
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
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	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
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	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 09/15/22 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21-22 Batch: WG1687634-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	83		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/15/22 14:55
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 21-22 Batch: WG1687636-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	0.02	J	ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	0.02	J	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	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/15/22 14:55
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 21-22 Batch: WG1687636-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	84		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 09/16/22 09:30
Analyst: DMB

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 17:05

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01-20 Batch: WG1688001-1					
1,4-Dioxane	ND		ug/l	0.150	0.0339

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	57		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/16/22 21:11
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-20 Batch: WG1688002-1					
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
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
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	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/16/22 21:11
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-20 Batch: WG1688002-1					
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
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	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
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	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/16/22 21:11
Analyst: ALS

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-20 Batch: WG1688002-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	70		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/20/22 13:19
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-20 Batch: WG1688003-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	0.04	J	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	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/20/22 13:19
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 16:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-20 Batch: WG1688003-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	29		10-120
4-Terphenyl-d14	79		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 09/16/22 13:57
Analyst: DMB

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 21-22 Batch: WG1688037-1					
1,4-Dioxane	ND		ug/l	0.150	0.0339

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	68		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-22 Batch: WG1687634-2 WG1687634-3								
Acenaphthene	72		65		37-111	10		30
1,2,4-Trichlorobenzene	76		65		39-98	16		30
Hexachlorobenzene	77		71		40-140	8		30
Bis(2-chloroethyl)ether	66		58		40-140	13		30
2-Chloronaphthalene	73		64		40-140	13		30
1,2-Dichlorobenzene	67		60		40-140	11		30
1,3-Dichlorobenzene	67		60		40-140	11		30
1,4-Dichlorobenzene	69		61		36-97	12		30
3,3'-Dichlorobenzidine	63		61		40-140	3		30
2,4-Dinitrotoluene	70		64		48-143	9		30
2,6-Dinitrotoluene	68		65		40-140	5		30
Fluoranthene	71		67		40-140	6		30
4-Chlorophenyl phenyl ether	78		74		40-140	5		30
4-Bromophenyl phenyl ether	80		75		40-140	6		30
Bis(2-chloroisopropyl)ether	63		56		40-140	12		30
Bis(2-chloroethoxy)methane	70		63		40-140	11		30
Hexachlorobutadiene	78		70		40-140	11		30
Hexachlorocyclopentadiene	78		71		40-140	9		30
Hexachloroethane	69		61		40-140	12		30
Isophorone	66		60		40-140	10		30
Naphthalene	68		60		40-140	13		30
Nitrobenzene	70		62		40-140	12		30
NDPA/DPA	75		71		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-22 Batch: WG1687634-2 WG1687634-3								
n-Nitrosodi-n-propylamine	68		61		29-132	11		30
Bis(2-ethylhexyl)phthalate	80		77		40-140	4		30
Butyl benzyl phthalate	79		73		40-140	8		30
Di-n-butylphthalate	75		69		40-140	8		30
Di-n-octylphthalate	82		77		40-140	6		30
Diethyl phthalate	75		70		40-140	7		30
Dimethyl phthalate	72		66		40-140	9		30
Benzo(a)anthracene	77		72		40-140	7		30
Benzo(a)pyrene	80		75		40-140	6		30
Benzo(b)fluoranthene	78		75		40-140	4		30
Benzo(k)fluoranthene	76		73		40-140	4		30
Chrysene	74		70		40-140	6		30
Acenaphthylene	72		66		45-123	9		30
Anthracene	70		67		40-140	4		30
Benzo(ghi)perylene	68		61		40-140	11		30
Fluorene	73		68		40-140	7		30
Phenanthrene	67		63		40-140	6		30
Dibenzo(a,h)anthracene	71		66		40-140	7		30
Indeno(1,2,3-cd)pyrene	76		70		40-140	8		30
Pyrene	72		67		26-127	7		30
Biphenyl	76		69		40-140	10		30
4-Chloroaniline	68		63		40-140	8		30
2-Nitroaniline	64		60		52-143	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-22 Batch: WG1687634-2 WG1687634-3								
3-Nitroaniline	68		62		25-145	9		30
4-Nitroaniline	66		62		51-143	6		30
Dibenzofuran	72		68		40-140	6		30
2-Methylnaphthalene	75		67		40-140	11		30
1,2,4,5-Tetrachlorobenzene	84		75		2-134	11		30
Acetophenone	72		64		39-129	12		30
2,4,6-Trichlorophenol	78		72		30-130	8		30
p-Chloro-m-cresol	70		66		23-97	6		30
2-Chlorophenol	66		60		27-123	10		30
2,4-Dichlorophenol	79		71		30-130	11		30
2,4-Dimethylphenol	69		63		30-130	9		30
2-Nitrophenol	72		63		30-130	13		30
4-Nitrophenol	50		44		10-80	13		30
2,4-Dinitrophenol	74		51		20-130	37	Q	30
4,6-Dinitro-o-cresol	72		64		20-164	12		30
Pentachlorophenol	80		71		9-103	12		30
Phenol	40		37		12-110	8		30
2-Methylphenol	62		56		30-130	10		30
3-Methylphenol/4-Methylphenol	59		54		30-130	9		30
2,4,5-Trichlorophenol	78		74		30-130	5		30
Benzoic Acid	65		41		10-164	45	Q	30
Benzyl Alcohol	70		60		26-116	15		30
Carbazole	71		66		55-144	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-22 Batch: WG1687634-2 WG1687634-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		45		21-120
Phenol-d6	40		37		10-120
Nitrobenzene-d5	69		59		23-120
2-Fluorobiphenyl	72		67		15-120
2,4,6-Tribromophenol	82		76		10-120
4-Terphenyl-d14	79		72		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 21-22 Batch: WG1687636-2 WG1687636-3								
Acenaphthene	59		76		40-140	25		40
2-Chloronaphthalene	50		68		40-140	31		40
Fluoranthene	59		75		40-140	24		40
Hexachlorobutadiene	47		65		40-140	32		40
Naphthalene	53		73		40-140	32		40
Benzo(a)anthracene	62		77		40-140	22		40
Benzo(a)pyrene	54		67		40-140	21		40
Benzo(b)fluoranthene	60		74		40-140	21		40
Benzo(k)fluoranthene	59		77		40-140	26		40
Chrysene	62		76		40-140	20		40
Acenaphthylene	50		66		40-140	28		40
Anthracene	58		73		40-140	23		40
Benzo(ghi)perylene	64		78		40-140	20		40
Fluorene	61		77		40-140	23		40
Phenanthrene	58		73		40-140	23		40
Dibenzo(a,h)anthracene	65		80		40-140	21		40
Indeno(1,2,3-cd)pyrene	67		82		40-140	20		40
Pyrene	61		76		40-140	22		40
2-Methylnaphthalene	55		74		40-140	29		40
Pentachlorophenol	60		66		40-140	10		40
Hexachlorobenzene	61		76		40-140	22		40
Hexachloroethane	42		59		40-140	34		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 21-22 Batch: WG1687636-2 WG1687636-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	40		57		21-120
Phenol-d6	34		47		10-120
Nitrobenzene-d5	58		81		23-120
2-Fluorobiphenyl	53		69		15-120
2,4,6-Tribromophenol	78		92		10-120
4-Terphenyl-d14	61		74		41-149

Lab Control Sample Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01-20 Batch: WG1688001-2 WG1688001-3								
1,4-Dioxane	115		119		40-140	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	52		53		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 Batch: WG1688002-2 WG1688002-3								
Acenaphthene	57		72		37-111	23		30
1,2,4-Trichlorobenzene	52		68		39-98	27		30
Hexachlorobenzene	62		74		40-140	18		30
Bis(2-chloroethyl)ether	50		63		40-140	23		30
2-Chloronaphthalene	55		68		40-140	21		30
1,2-Dichlorobenzene	51		64		40-140	23		30
1,3-Dichlorobenzene	51		64		40-140	23		30
1,4-Dichlorobenzene	50		64		36-97	25		30
3,3'-Dichlorobenzidine	56		61		40-140	9		30
2,4-Dinitrotoluene	57		71		48-143	22		30
2,6-Dinitrotoluene	53		64		40-140	19		30
Fluoranthene	59		75		40-140	24		30
4-Chlorophenyl phenyl ether	62		76		40-140	20		30
4-Bromophenyl phenyl ether	64		79		40-140	21		30
Bis(2-chloroisopropyl)ether	48		61		40-140	24		30
Bis(2-chloroethoxy)methane	49		65		40-140	28		30
Hexachlorobutadiene	57		72		40-140	23		30
Hexachlorocyclopentadiene	53		70		40-140	28		30
Hexachloroethane	51		63		40-140	21		30
Isophorone	48		61		40-140	24		30
Naphthalene	53		65		40-140	20		30
Nitrobenzene	50		62		40-140	21		30
NDPA/DPA	60		76		40-140	24		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 Batch: WG1688002-2 WG1688002-3								
n-Nitrosodi-n-propylamine	50		61		29-132	20		30
Bis(2-ethylhexyl)phthalate	62		82		40-140	28		30
Butyl benzyl phthalate	60		79		40-140	27		30
Di-n-butylphthalate	56		75		40-140	29		30
Di-n-octylphthalate	62		85		40-140	31	Q	30
Diethyl phthalate	59		73		40-140	21		30
Dimethyl phthalate	54		68		40-140	23		30
Benzo(a)anthracene	67		82		40-140	20		30
Benzo(a)pyrene	67		84		40-140	23		30
Benzo(b)fluoranthene	66		84		40-140	24		30
Benzo(k)fluoranthene	68		83		40-140	20		30
Chrysene	64		79		40-140	21		30
Acenaphthylene	53		70		45-123	28		30
Anthracene	60		75		40-140	22		30
Benzo(ghi)perylene	60		76		40-140	24		30
Fluorene	60		73		40-140	20		30
Phenanthrene	58		72		40-140	22		30
Dibenzo(a,h)anthracene	62		77		40-140	22		30
Indeno(1,2,3-cd)pyrene	67		84		40-140	23		30
Pyrene	58		75		26-127	26		30
Biphenyl	56		72		40-140	25		30
4-Chloroaniline	48		69		40-140	36	Q	30
2-Nitroaniline	52		65		52-143	22		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 Batch: WG1688002-2 WG1688002-3								
3-Nitroaniline	51		60		25-145	16		30
4-Nitroaniline	54		64		51-143	17		30
Dibenzofuran	60		71		40-140	17		30
2-Methylnaphthalene	56		71		40-140	24		30
1,2,4,5-Tetrachlorobenzene	61		79		2-134	26		30
Acetophenone	52		66		39-129	24		30
2,4,6-Trichlorophenol	59		72		30-130	20		30
p-Chloro-m-cresol	56		72		23-97	25		30
2-Chlorophenol	51		65		27-123	24		30
2,4-Dichlorophenol	57		70		30-130	20		30
2,4-Dimethylphenol	42		64		30-130	42	Q	30
2-Nitrophenol	48		66		30-130	32	Q	30
4-Nitrophenol	49		63		10-80	25		30
2,4-Dinitrophenol	64		74		20-130	14		30
4,6-Dinitro-o-cresol	54		70		20-164	26		30
Pentachlorophenol	54		64		9-103	17		30
Phenol	36		44		12-110	20		30
2-Methylphenol	50		64		30-130	25		30
3-Methylphenol/4-Methylphenol	50		62		30-130	21		30
2,4,5-Trichlorophenol	62		77		30-130	22		30
Benzoic Acid	61		73		10-164	18		30
Benzyl Alcohol	48		59		26-116	21		30
Carbazole	61		77		55-144	23		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-20 Batch: WG1688002-2 WG1688002-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	48		58		21-120
Phenol-d6	40		48		10-120
Nitrobenzene-d5	50		68		23-120
2-Fluorobiphenyl	57		74		15-120
2,4,6-Tribromophenol	62		83		10-120
4-Terphenyl-d14	64		81		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-20 Batch: WG1688003-2 WG1688003-3								
Acenaphthene	86		86		40-140	0		40
2-Chloronaphthalene	82		82		40-140	0		40
Fluoranthene	105		96		40-140	9		40
Hexachlorobutadiene	79		77		40-140	3		40
Naphthalene	81		80		40-140	1		40
Benzo(a)anthracene	96		90		40-140	6		40
Benzo(a)pyrene	103		95		40-140	8		40
Benzo(b)fluoranthene	111		103		40-140	7		40
Benzo(k)fluoranthene	117		110		40-140	6		40
Chrysene	94		88		40-140	7		40
Acenaphthylene	84		84		40-140	0		40
Anthracene	95		89		40-140	7		40
Benzo(ghi)perylene	96		92		40-140	4		40
Fluorene	90		87		40-140	3		40
Phenanthrene	92		88		40-140	4		40
Dibenzo(a,h)anthracene	102		96		40-140	6		40
Indeno(1,2,3-cd)pyrene	98		92		40-140	6		40
Pyrene	103		95		40-140	8		40
2-Methylnaphthalene	83		83		40-140	0		40
Pentachlorophenol	107		103		40-140	4		40
Hexachlorobenzene	89		87		40-140	2		40
Hexachloroethane	74		72		40-140	3		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-20 Batch: WG1688003-2 WG1688003-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	59		57		21-120
Phenol-d6	53		55		10-120
Nitrobenzene-d5	75		78		23-120
2-Fluorobiphenyl	86		85		15-120
2,4,6-Tribromophenol	66		54		10-120
4-Terphenyl-d14	110		99		41-149

Lab Control Sample Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 21-22 Batch: WG1688037-2 WG1688037-3								
1,4-Dioxane	107		107		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	57		62		15-110

PCBS

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 14:59
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.01	0.505	1
CI3-BZ#18	2.64		ng/l	1.01	0.505	1
CI3-BZ#28	2.06		ng/l	1.01	0.505	1
CI4-BZ#44	ND		ng/l	1.01	0.505	1
CI4-BZ#49	0.799	J	ng/l	1.01	0.505	1
CI4-BZ#52	1.77		ng/l	1.01	0.505	1
CI4-BZ#66	ND		ng/l	1.01	0.505	1
CI5-BZ#87	ND		ng/l	1.01	0.505	1
CI5-BZ#101	ND		ng/l	1.01	0.505	1
CI5-BZ#105	ND		ng/l	1.01	0.505	1
CI5-BZ#118	ND		ng/l	1.01	0.505	1
CI6-BZ#128	ND		ng/l	1.01	0.505	1
CI6-BZ#138	ND		ng/l	1.01	0.505	1
CI6-BZ#153	ND		ng/l	1.01	0.505	1
CI7-BZ#170	ND		ng/l	1.01	0.505	1
CI7-BZ#180	ND		ng/l	1.01	0.505	1
CI7-BZ#183	ND		ng/l	1.01	0.505	1
CI7-BZ#184	ND		ng/l	1.01	0.505	1
CI7-BZ#187	ND		ng/l	1.01	0.505	1
CI8-BZ#195	ND		ng/l	1.01	0.505	1
CI9-BZ#206	ND		ng/l	1.01	0.505	1
CI10-BZ#209	ND		ng/l	1.01	0.505	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	95		50-125
BZ 198	101		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 15:27
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.02	0.510	1
CI3-BZ#18	2.65		ng/l	1.02	0.510	1
CI3-BZ#28	2.19		ng/l	1.02	0.510	1
CI4-BZ#44	ND		ng/l	1.02	0.510	1
CI4-BZ#49	0.941	J	ng/l	1.02	0.510	1
CI4-BZ#52	1.38		ng/l	1.02	0.510	1
CI4-BZ#66	ND		ng/l	1.02	0.510	1
CI5-BZ#87	ND		ng/l	1.02	0.510	1
CI5-BZ#101	ND		ng/l	1.02	0.510	1
CI5-BZ#105	ND		ng/l	1.02	0.510	1
CI5-BZ#118	ND		ng/l	1.02	0.510	1
CI6-BZ#128	ND		ng/l	1.02	0.510	1
CI6-BZ#138	ND		ng/l	1.02	0.510	1
CI6-BZ#153	ND		ng/l	1.02	0.510	1
CI7-BZ#170	ND		ng/l	1.02	0.510	1
CI7-BZ#180	ND		ng/l	1.02	0.510	1
CI7-BZ#183	ND		ng/l	1.02	0.510	1
CI7-BZ#184	ND		ng/l	1.02	0.510	1
CI7-BZ#187	ND		ng/l	1.02	0.510	1
CI8-BZ#195	ND		ng/l	1.02	0.510	1
CI9-BZ#206	ND		ng/l	1.02	0.510	1
CI10-BZ#209	ND		ng/l	1.02	0.510	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	93		50-125
BZ 198	95		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 16:02
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.500	1
CI3-BZ#18	1.88		ng/l	1.00	0.500	1
CI3-BZ#28	1.64		ng/l	1.00	0.500	1
CI4-BZ#44	ND		ng/l	1.00	0.500	1
CI4-BZ#49	0.846	J	ng/l	1.00	0.500	1
CI4-BZ#52	0.930	J	ng/l	1.00	0.500	1
CI4-BZ#66	ND		ng/l	1.00	0.500	1
CI5-BZ#87	ND		ng/l	1.00	0.500	1
CI5-BZ#101	ND		ng/l	1.00	0.500	1
CI5-BZ#105	ND		ng/l	1.00	0.500	1
CI5-BZ#118	ND		ng/l	1.00	0.500	1
CI6-BZ#128	ND		ng/l	1.00	0.500	1
CI6-BZ#138	ND		ng/l	1.00	0.500	1
CI6-BZ#153	ND		ng/l	1.00	0.500	1
CI7-BZ#170	ND		ng/l	1.00	0.500	1
CI7-BZ#180	ND		ng/l	1.00	0.500	1
CI7-BZ#183	ND		ng/l	1.00	0.500	1
CI7-BZ#184	ND		ng/l	1.00	0.500	1
CI7-BZ#187	ND		ng/l	1.00	0.500	1
CI8-BZ#195	ND		ng/l	1.00	0.500	1
CI9-BZ#206	ND		ng/l	1.00	0.500	1
CI10-BZ#209	ND		ng/l	1.00	0.500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	92		50-125
BZ 198	99		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 16:23
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.20	0.602	1
CI3-BZ#18	1.47		ng/l	1.20	0.602	1
CI3-BZ#28	1.44		ng/l	1.20	0.602	1
CI4-BZ#44	ND		ng/l	1.20	0.602	1
CI4-BZ#49	0.698	J	ng/l	1.20	0.602	1
CI4-BZ#52	0.917	J	ng/l	1.20	0.602	1
CI4-BZ#66	ND		ng/l	1.20	0.602	1
CI5-BZ#87	ND		ng/l	1.20	0.602	1
CI5-BZ#101	ND		ng/l	1.20	0.602	1
CI5-BZ#105	ND		ng/l	1.20	0.602	1
CI5-BZ#118	ND		ng/l	1.20	0.602	1
CI6-BZ#128	ND		ng/l	1.20	0.602	1
CI6-BZ#138	ND		ng/l	1.20	0.602	1
CI6-BZ#153	ND		ng/l	1.20	0.602	1
CI7-BZ#170	ND		ng/l	1.20	0.602	1
CI7-BZ#180	ND		ng/l	1.20	0.602	1
CI7-BZ#183	ND		ng/l	1.20	0.602	1
CI7-BZ#184	ND		ng/l	1.20	0.602	1
CI7-BZ#187	ND		ng/l	1.20	0.602	1
CI8-BZ#195	ND		ng/l	1.20	0.602	1
CI9-BZ#206	ND		ng/l	1.20	0.602	1
CI10-BZ#209	ND		ng/l	1.20	0.602	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	87		50-125
BZ 198	92		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 16:52
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.995	0.498	1
CI3-BZ#18	2.00		ng/l	0.995	0.498	1
CI3-BZ#28	1.76		ng/l	0.995	0.498	1
CI4-BZ#44	ND		ng/l	0.995	0.498	1
CI4-BZ#49	0.836	J	ng/l	0.995	0.498	1
CI4-BZ#52	1.02		ng/l	0.995	0.498	1
CI4-BZ#66	ND		ng/l	0.995	0.498	1
CI5-BZ#87	ND		ng/l	0.995	0.498	1
CI5-BZ#101	ND		ng/l	0.995	0.498	1
CI5-BZ#105	ND		ng/l	0.995	0.498	1
CI5-BZ#118	ND		ng/l	0.995	0.498	1
CI6-BZ#128	ND		ng/l	0.995	0.498	1
CI6-BZ#138	ND		ng/l	0.995	0.498	1
CI6-BZ#153	ND		ng/l	0.995	0.498	1
CI7-BZ#170	ND		ng/l	0.995	0.498	1
CI7-BZ#180	ND		ng/l	0.995	0.498	1
CI7-BZ#183	ND		ng/l	0.995	0.498	1
CI7-BZ#184	ND		ng/l	0.995	0.498	1
CI7-BZ#187	ND		ng/l	0.995	0.498	1
CI8-BZ#195	ND		ng/l	0.995	0.498	1
CI9-BZ#206	ND		ng/l	0.995	0.498	1
CI10-BZ#209	ND		ng/l	0.995	0.498	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	96		50-125
BZ 198	101		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 17:20
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.500	1
CI3-BZ#18	1.95		ng/l	1.00	0.500	1
CI3-BZ#28	1.54		ng/l	1.00	0.500	1
CI4-BZ#44	ND		ng/l	1.00	0.500	1
CI4-BZ#49	0.815	J	ng/l	1.00	0.500	1
CI4-BZ#52	1.08		ng/l	1.00	0.500	1
CI4-BZ#66	ND		ng/l	1.00	0.500	1
CI5-BZ#87	ND		ng/l	1.00	0.500	1
CI5-BZ#101	ND		ng/l	1.00	0.500	1
CI5-BZ#105	ND		ng/l	1.00	0.500	1
CI5-BZ#118	ND		ng/l	1.00	0.500	1
CI6-BZ#128	ND		ng/l	1.00	0.500	1
CI6-BZ#138	ND		ng/l	1.00	0.500	1
CI6-BZ#153	ND		ng/l	1.00	0.500	1
CI7-BZ#170	ND		ng/l	1.00	0.500	1
CI7-BZ#180	ND		ng/l	1.00	0.500	1
CI7-BZ#183	ND		ng/l	1.00	0.500	1
CI7-BZ#184	ND		ng/l	1.00	0.500	1
CI7-BZ#187	ND		ng/l	1.00	0.500	1
CI8-BZ#195	ND		ng/l	1.00	0.500	1
CI9-BZ#206	ND		ng/l	1.00	0.500	1
CI10-BZ#209	ND		ng/l	1.00	0.500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	94		50-125
BZ 198	93		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 17:48
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.502	1
CI3-BZ#18	1.85		ng/l	1.00	0.502	1
CI3-BZ#28	1.44		ng/l	1.00	0.502	1
CI4-BZ#44	ND		ng/l	1.00	0.502	1
CI4-BZ#49	0.763	J	ng/l	1.00	0.502	1
CI4-BZ#52	0.826	J	ng/l	1.00	0.502	1
CI4-BZ#66	ND		ng/l	1.00	0.502	1
CI5-BZ#87	ND		ng/l	1.00	0.502	1
CI5-BZ#101	ND		ng/l	1.00	0.502	1
CI5-BZ#105	ND		ng/l	1.00	0.502	1
CI5-BZ#118	ND		ng/l	1.00	0.502	1
CI6-BZ#128	ND		ng/l	1.00	0.502	1
CI6-BZ#138	ND		ng/l	1.00	0.502	1
CI6-BZ#153	ND		ng/l	1.00	0.502	1
CI7-BZ#170	ND		ng/l	1.00	0.502	1
CI7-BZ#180	ND		ng/l	1.00	0.502	1
CI7-BZ#183	ND		ng/l	1.00	0.502	1
CI7-BZ#184	ND		ng/l	1.00	0.502	1
CI7-BZ#187	ND		ng/l	1.00	0.502	1
CI8-BZ#195	ND		ng/l	1.00	0.502	1
CI9-BZ#206	ND		ng/l	1.00	0.502	1
CI10-BZ#209	ND		ng/l	1.00	0.502	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	100		50-125
BZ 198	96		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 18:16
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.990	0.495	1
CI3-BZ#18	1.78		ng/l	0.990	0.495	1
CI3-BZ#28	1.52		ng/l	0.990	0.495	1
CI4-BZ#44	ND		ng/l	0.990	0.495	1
CI4-BZ#49	0.806	J	ng/l	0.990	0.495	1
CI4-BZ#52	0.868	J	ng/l	0.990	0.495	1
CI4-BZ#66	ND		ng/l	0.990	0.495	1
CI5-BZ#87	ND		ng/l	0.990	0.495	1
CI5-BZ#101	ND		ng/l	0.990	0.495	1
CI5-BZ#105	ND		ng/l	0.990	0.495	1
CI5-BZ#118	ND		ng/l	0.990	0.495	1
CI6-BZ#128	ND		ng/l	0.990	0.495	1
CI6-BZ#138	ND		ng/l	0.990	0.495	1
CI6-BZ#153	ND		ng/l	0.990	0.495	1
CI7-BZ#170	ND		ng/l	0.990	0.495	1
CI7-BZ#180	ND		ng/l	0.990	0.495	1
CI7-BZ#183	ND		ng/l	0.990	0.495	1
CI7-BZ#184	ND		ng/l	0.990	0.495	1
CI7-BZ#187	ND		ng/l	0.990	0.495	1
CI8-BZ#195	ND		ng/l	0.990	0.495	1
CI9-BZ#206	ND		ng/l	0.990	0.495	1
CI10-BZ#209	ND		ng/l	0.990	0.495	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	91		50-125
BZ 198	94		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 18:44
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.01	0.505	1
CI3-BZ#18	1.70		ng/l	1.01	0.505	1
CI3-BZ#28	1.58		ng/l	1.01	0.505	1
CI4-BZ#44	ND		ng/l	1.01	0.505	1
CI4-BZ#49	0.747	J	ng/l	1.01	0.505	1
CI4-BZ#52	0.929	J	ng/l	1.01	0.505	1
CI4-BZ#66	ND		ng/l	1.01	0.505	1
CI5-BZ#87	ND		ng/l	1.01	0.505	1
CI5-BZ#101	ND		ng/l	1.01	0.505	1
CI5-BZ#105	ND		ng/l	1.01	0.505	1
CI5-BZ#118	ND		ng/l	1.01	0.505	1
CI6-BZ#128	ND		ng/l	1.01	0.505	1
CI6-BZ#138	ND		ng/l	1.01	0.505	1
CI6-BZ#153	ND		ng/l	1.01	0.505	1
CI7-BZ#170	ND		ng/l	1.01	0.505	1
CI7-BZ#180	ND		ng/l	1.01	0.505	1
CI7-BZ#183	ND		ng/l	1.01	0.505	1
CI7-BZ#184	ND		ng/l	1.01	0.505	1
CI7-BZ#187	ND		ng/l	1.01	0.505	1
CI8-BZ#195	ND		ng/l	1.01	0.505	1
CI9-BZ#206	ND		ng/l	1.01	0.505	1
CI10-BZ#209	ND		ng/l	1.01	0.505	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	93		50-125
BZ 198	90		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 19:12
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.500	1
CI3-BZ#18	1.96		ng/l	1.00	0.500	1
CI3-BZ#28	1.89		ng/l	1.00	0.500	1
CI4-BZ#44	ND		ng/l	1.00	0.500	1
CI4-BZ#49	0.932	J	ng/l	1.00	0.500	1
CI4-BZ#52	1.02		ng/l	1.00	0.500	1
CI4-BZ#66	ND		ng/l	1.00	0.500	1
CI5-BZ#87	ND		ng/l	1.00	0.500	1
CI5-BZ#101	ND		ng/l	1.00	0.500	1
CI5-BZ#105	ND		ng/l	1.00	0.500	1
CI5-BZ#118	ND		ng/l	1.00	0.500	1
CI6-BZ#128	ND		ng/l	1.00	0.500	1
CI6-BZ#138	ND		ng/l	1.00	0.500	1
CI6-BZ#153	ND		ng/l	1.00	0.500	1
CI7-BZ#170	ND		ng/l	1.00	0.500	1
CI7-BZ#180	ND		ng/l	1.00	0.500	1
CI7-BZ#183	ND		ng/l	1.00	0.500	1
CI7-BZ#184	ND		ng/l	1.00	0.500	1
CI7-BZ#187	ND		ng/l	1.00	0.500	1
CI8-BZ#195	ND		ng/l	1.00	0.500	1
CI9-BZ#206	ND		ng/l	1.00	0.500	1
CI10-BZ#209	ND		ng/l	1.00	0.500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	91		50-125
BZ 198	89		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 19:40
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.995	0.498	1
CI3-BZ#18	2.25		ng/l	0.995	0.498	1
CI3-BZ#28	2.08		ng/l	0.995	0.498	1
CI4-BZ#44	ND		ng/l	0.995	0.498	1
CI4-BZ#49	0.914	J	ng/l	0.995	0.498	1
CI4-BZ#52	0.984	J	ng/l	0.995	0.498	1
CI4-BZ#66	ND		ng/l	0.995	0.498	1
CI5-BZ#87	ND		ng/l	0.995	0.498	1
CI5-BZ#101	ND		ng/l	0.995	0.498	1
CI5-BZ#105	ND		ng/l	0.995	0.498	1
CI5-BZ#118	ND		ng/l	0.995	0.498	1
CI6-BZ#128	ND		ng/l	0.995	0.498	1
CI6-BZ#138	ND		ng/l	0.995	0.498	1
CI6-BZ#153	ND		ng/l	0.995	0.498	1
CI7-BZ#170	ND		ng/l	0.995	0.498	1
CI7-BZ#180	ND		ng/l	0.995	0.498	1
CI7-BZ#183	ND		ng/l	0.995	0.498	1
CI7-BZ#184	ND		ng/l	0.995	0.498	1
CI7-BZ#187	ND		ng/l	0.995	0.498	1
CI8-BZ#195	ND		ng/l	0.995	0.498	1
CI9-BZ#206	ND		ng/l	0.995	0.498	1
CI10-BZ#209	ND		ng/l	0.995	0.498	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	96		50-125
BZ 198	95		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 20:09
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.500	1
CI3-BZ#18	1.61		ng/l	1.00	0.500	1
CI3-BZ#28	1.55		ng/l	1.00	0.500	1
CI4-BZ#44	ND		ng/l	1.00	0.500	1
CI4-BZ#49	0.670	J	ng/l	1.00	0.500	1
CI4-BZ#52	0.869	J	ng/l	1.00	0.500	1
CI4-BZ#66	ND		ng/l	1.00	0.500	1
CI5-BZ#87	ND		ng/l	1.00	0.500	1
CI5-BZ#101	ND		ng/l	1.00	0.500	1
CI5-BZ#105	ND		ng/l	1.00	0.500	1
CI5-BZ#118	ND		ng/l	1.00	0.500	1
CI6-BZ#128	ND		ng/l	1.00	0.500	1
CI6-BZ#138	ND		ng/l	1.00	0.500	1
CI6-BZ#153	ND		ng/l	1.00	0.500	1
CI7-BZ#170	ND		ng/l	1.00	0.500	1
CI7-BZ#180	ND		ng/l	1.00	0.500	1
CI7-BZ#183	ND		ng/l	1.00	0.500	1
CI7-BZ#184	ND		ng/l	1.00	0.500	1
CI7-BZ#187	ND		ng/l	1.00	0.500	1
CI8-BZ#195	ND		ng/l	1.00	0.500	1
CI9-BZ#206	ND		ng/l	1.00	0.500	1
CI10-BZ#209	ND		ng/l	1.00	0.500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	90		50-125
BZ 198	96		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 20:36
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.990	0.495	1
CI3-BZ#18	1.39		ng/l	0.990	0.495	1
CI3-BZ#28	1.20		ng/l	0.990	0.495	1
CI4-BZ#44	ND		ng/l	0.990	0.495	1
CI4-BZ#49	0.652	J	ng/l	0.990	0.495	1
CI4-BZ#52	0.785	J	ng/l	0.990	0.495	1
CI4-BZ#66	ND		ng/l	0.990	0.495	1
CI5-BZ#87	ND		ng/l	0.990	0.495	1
CI5-BZ#101	ND		ng/l	0.990	0.495	1
CI5-BZ#105	ND		ng/l	0.990	0.495	1
CI5-BZ#118	ND		ng/l	0.990	0.495	1
CI6-BZ#128	ND		ng/l	0.990	0.495	1
CI6-BZ#138	ND		ng/l	0.990	0.495	1
CI6-BZ#153	ND		ng/l	0.990	0.495	1
CI7-BZ#170	ND		ng/l	0.990	0.495	1
CI7-BZ#180	ND		ng/l	0.990	0.495	1
CI7-BZ#183	ND		ng/l	0.990	0.495	1
CI7-BZ#184	ND		ng/l	0.990	0.495	1
CI7-BZ#187	ND		ng/l	0.990	0.495	1
CI8-BZ#195	ND		ng/l	0.990	0.495	1
CI9-BZ#206	ND		ng/l	0.990	0.495	1
CI10-BZ#209	ND		ng/l	0.990	0.495	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	96		50-125
BZ 198	97		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 21:04
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.03	0.515	1
CI3-BZ#18	1.71		ng/l	1.03	0.515	1
CI3-BZ#28	1.42		ng/l	1.03	0.515	1
CI4-BZ#44	ND		ng/l	1.03	0.515	1
CI4-BZ#49	0.691	J	ng/l	1.03	0.515	1
CI4-BZ#52	0.970	J	ng/l	1.03	0.515	1
CI4-BZ#66	ND		ng/l	1.03	0.515	1
CI5-BZ#87	ND		ng/l	1.03	0.515	1
CI5-BZ#101	ND		ng/l	1.03	0.515	1
CI5-BZ#105	ND		ng/l	1.03	0.515	1
CI5-BZ#118	ND		ng/l	1.03	0.515	1
CI6-BZ#128	ND		ng/l	1.03	0.515	1
CI6-BZ#138	ND		ng/l	1.03	0.515	1
CI6-BZ#153	ND		ng/l	1.03	0.515	1
CI7-BZ#170	ND		ng/l	1.03	0.515	1
CI7-BZ#180	ND		ng/l	1.03	0.515	1
CI7-BZ#183	ND		ng/l	1.03	0.515	1
CI7-BZ#184	ND		ng/l	1.03	0.515	1
CI7-BZ#187	ND		ng/l	1.03	0.515	1
CI8-BZ#195	ND		ng/l	1.03	0.515	1
CI9-BZ#206	ND		ng/l	1.03	0.515	1
CI10-BZ#209	ND		ng/l	1.03	0.515	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	90		50-125
BZ 198	102		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 21:32
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.500	1
CI3-BZ#18	1.28		ng/l	1.00	0.500	1
CI3-BZ#28	1.11		ng/l	1.00	0.500	1
CI4-BZ#44	ND		ng/l	1.00	0.500	1
CI4-BZ#49	0.589	J	ng/l	1.00	0.500	1
CI4-BZ#52	0.721	J	ng/l	1.00	0.500	1
CI4-BZ#66	ND		ng/l	1.00	0.500	1
CI5-BZ#87	ND		ng/l	1.00	0.500	1
CI5-BZ#101	ND		ng/l	1.00	0.500	1
CI5-BZ#105	ND		ng/l	1.00	0.500	1
CI5-BZ#118	ND		ng/l	1.00	0.500	1
CI6-BZ#128	ND		ng/l	1.00	0.500	1
CI6-BZ#138	ND		ng/l	1.00	0.500	1
CI6-BZ#153	ND		ng/l	1.00	0.500	1
CI7-BZ#170	ND		ng/l	1.00	0.500	1
CI7-BZ#180	ND		ng/l	1.00	0.500	1
CI7-BZ#183	ND		ng/l	1.00	0.500	1
CI7-BZ#184	ND		ng/l	1.00	0.500	1
CI7-BZ#187	ND		ng/l	1.00	0.500	1
CI8-BZ#195	ND		ng/l	1.00	0.500	1
CI9-BZ#206	ND		ng/l	1.00	0.500	1
CI10-BZ#209	ND		ng/l	1.00	0.500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	92		50-125
BZ 198	100		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/27/22 22:00
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.500	1
CI3-BZ#18	1.64		ng/l	1.00	0.500	1
CI3-BZ#28	1.34		ng/l	1.00	0.500	1
CI4-BZ#44	ND		ng/l	1.00	0.500	1
CI4-BZ#49	0.765	J	ng/l	1.00	0.500	1
CI4-BZ#52	0.795	J	ng/l	1.00	0.500	1
CI4-BZ#66	ND		ng/l	1.00	0.500	1
CI5-BZ#87	ND		ng/l	1.00	0.500	1
CI5-BZ#101	ND		ng/l	1.00	0.500	1
CI5-BZ#105	ND		ng/l	1.00	0.500	1
CI5-BZ#118	ND		ng/l	1.00	0.500	1
CI6-BZ#128	ND		ng/l	1.00	0.500	1
CI6-BZ#138	ND		ng/l	1.00	0.500	1
CI6-BZ#153	ND		ng/l	1.00	0.500	1
CI7-BZ#170	ND		ng/l	1.00	0.500	1
CI7-BZ#180	ND		ng/l	1.00	0.500	1
CI7-BZ#183	ND		ng/l	1.00	0.500	1
CI7-BZ#184	ND		ng/l	1.00	0.500	1
CI7-BZ#187	ND		ng/l	1.00	0.500	1
CI8-BZ#195	ND		ng/l	1.00	0.500	1
CI9-BZ#206	ND		ng/l	1.00	0.500	1
CI10-BZ#209	ND		ng/l	1.00	0.500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	89		50-125
BZ 198	94		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 13:14
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.02	0.510	1
CI3-BZ#18	1.79		ng/l	1.02	0.510	1
CI3-BZ#28	1.43		ng/l	1.02	0.510	1
CI4-BZ#44	ND		ng/l	1.02	0.510	1
CI4-BZ#49	0.806	J	ng/l	1.02	0.510	1
CI4-BZ#52	0.812	J	ng/l	1.02	0.510	1
CI4-BZ#66	ND		ng/l	1.02	0.510	1
CI5-BZ#87	ND		ng/l	1.02	0.510	1
CI5-BZ#101	ND		ng/l	1.02	0.510	1
CI5-BZ#105	ND		ng/l	1.02	0.510	1
CI5-BZ#118	ND		ng/l	1.02	0.510	1
CI6-BZ#128	ND		ng/l	1.02	0.510	1
CI6-BZ#138	ND		ng/l	1.02	0.510	1
CI6-BZ#153	ND		ng/l	1.02	0.510	1
CI7-BZ#170	ND		ng/l	1.02	0.510	1
CI7-BZ#180	ND		ng/l	1.02	0.510	1
CI7-BZ#183	ND		ng/l	1.02	0.510	1
CI7-BZ#184	ND		ng/l	1.02	0.510	1
CI7-BZ#187	ND		ng/l	1.02	0.510	1
CI8-BZ#195	ND		ng/l	1.02	0.510	1
CI9-BZ#206	ND		ng/l	1.02	0.510	1
CI10-BZ#209	ND		ng/l	1.02	0.510	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	82		50-125
BZ 198	95		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 13:42
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.990	0.495	1
CI3-BZ#18	2.36		ng/l	0.990	0.495	1
CI3-BZ#28	1.79		ng/l	0.990	0.495	1
CI4-BZ#44	ND		ng/l	0.990	0.495	1
CI4-BZ#49	1.03		ng/l	0.990	0.495	1
CI4-BZ#52	1.01		ng/l	0.990	0.495	1
CI4-BZ#66	ND		ng/l	0.990	0.495	1
CI5-BZ#87	ND		ng/l	0.990	0.495	1
CI5-BZ#101	0.556	J	ng/l	0.990	0.495	1
CI5-BZ#105	ND		ng/l	0.990	0.495	1
CI5-BZ#118	ND		ng/l	0.990	0.495	1
CI6-BZ#128	ND		ng/l	0.990	0.495	1
CI6-BZ#138	ND		ng/l	0.990	0.495	1
CI6-BZ#153	ND		ng/l	0.990	0.495	1
CI7-BZ#170	ND		ng/l	0.990	0.495	1
CI7-BZ#180	ND		ng/l	0.990	0.495	1
CI7-BZ#183	ND		ng/l	0.990	0.495	1
CI7-BZ#184	ND		ng/l	0.990	0.495	1
CI7-BZ#187	ND		ng/l	0.990	0.495	1
CI8-BZ#195	ND		ng/l	0.990	0.495	1
CI9-BZ#206	ND		ng/l	0.990	0.495	1
CI10-BZ#209	ND		ng/l	0.990	0.495	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	89		50-125
BZ 198	104		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 16:29
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.500	1
CI3-BZ#18	1.90		ng/l	1.00	0.500	1
CI3-BZ#28	1.41		ng/l	1.00	0.500	1
CI4-BZ#44	ND		ng/l	1.00	0.500	1
CI4-BZ#49	0.893	J	ng/l	1.00	0.500	1
CI4-BZ#52	0.815	J	ng/l	1.00	0.500	1
CI4-BZ#66	ND		ng/l	1.00	0.500	1
CI5-BZ#87	ND		ng/l	1.00	0.500	1
CI5-BZ#101	ND		ng/l	1.00	0.500	1
CI5-BZ#105	ND		ng/l	1.00	0.500	1
CI5-BZ#118	ND		ng/l	1.00	0.500	1
CI6-BZ#128	ND		ng/l	1.00	0.500	1
CI6-BZ#138	ND		ng/l	1.00	0.500	1
CI6-BZ#153	ND		ng/l	1.00	0.500	1
CI7-BZ#170	ND		ng/l	1.00	0.500	1
CI7-BZ#180	ND		ng/l	1.00	0.500	1
CI7-BZ#183	ND		ng/l	1.00	0.500	1
CI7-BZ#184	ND		ng/l	1.00	0.500	1
CI7-BZ#187	ND		ng/l	1.00	0.500	1
CI8-BZ#195	ND		ng/l	1.00	0.500	1
CI9-BZ#206	ND		ng/l	1.00	0.500	1
CI10-BZ#209	ND		ng/l	1.00	0.500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	82		50-125
BZ 198	91		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 16:57
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.00	0.500	1
CI3-BZ#18	3.04		ng/l	1.00	0.500	1
CI3-BZ#28	2.48		ng/l	1.00	0.500	1
CI4-BZ#44	ND		ng/l	1.00	0.500	1
CI4-BZ#49	1.40		ng/l	1.00	0.500	1
CI4-BZ#52	1.38		ng/l	1.00	0.500	1
CI4-BZ#66	ND		ng/l	1.00	0.500	1
CI5-BZ#87	ND		ng/l	1.00	0.500	1
CI5-BZ#101	ND		ng/l	1.00	0.500	1
CI5-BZ#105	ND		ng/l	1.00	0.500	1
CI5-BZ#118	ND		ng/l	1.00	0.500	1
CI6-BZ#128	ND		ng/l	1.00	0.500	1
CI6-BZ#138	ND		ng/l	1.00	0.500	1
CI6-BZ#153	ND		ng/l	1.00	0.500	1
CI7-BZ#170	ND		ng/l	1.00	0.500	1
CI7-BZ#180	ND		ng/l	1.00	0.500	1
CI7-BZ#183	ND		ng/l	1.00	0.500	1
CI7-BZ#184	ND		ng/l	1.00	0.500	1
CI7-BZ#187	ND		ng/l	1.00	0.500	1
CI8-BZ#195	ND		ng/l	1.00	0.500	1
CI9-BZ#206	ND		ng/l	1.00	0.500	1
CI10-BZ#209	ND		ng/l	1.00	0.500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	92		50-125
BZ 198	94		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
Client ID: IP-1HR 30MIN POST-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
Date Received: 09/12/22
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 09/28/22 17:25
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	1.02	0.510	1
CI3-BZ#18	2.61		ng/l	1.02	0.510	1
CI3-BZ#28	2.18		ng/l	1.02	0.510	1
CI4-BZ#44	ND		ng/l	1.02	0.510	1
CI4-BZ#49	1.08		ng/l	1.02	0.510	1
CI4-BZ#52	1.17		ng/l	1.02	0.510	1
CI4-BZ#66	ND		ng/l	1.02	0.510	1
CI5-BZ#87	ND		ng/l	1.02	0.510	1
CI5-BZ#101	ND		ng/l	1.02	0.510	1
CI5-BZ#105	ND		ng/l	1.02	0.510	1
CI5-BZ#118	ND		ng/l	1.02	0.510	1
CI6-BZ#128	ND		ng/l	1.02	0.510	1
CI6-BZ#138	ND		ng/l	1.02	0.510	1
CI6-BZ#153	ND		ng/l	1.02	0.510	1
CI7-BZ#170	ND		ng/l	1.02	0.510	1
CI7-BZ#180	ND		ng/l	1.02	0.510	1
CI7-BZ#183	ND		ng/l	1.02	0.510	1
CI7-BZ#184	ND		ng/l	1.02	0.510	1
CI7-BZ#187	ND		ng/l	1.02	0.510	1
CI8-BZ#195	ND		ng/l	1.02	0.510	1
CI9-BZ#206	ND		ng/l	1.02	0.510	1
CI10-BZ#209	ND		ng/l	1.02	0.510	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	86		50-125
BZ 198	96		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 17:53
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.990	0.495	1
CI3-BZ#18	2.86		ng/l	0.990	0.495	1
CI3-BZ#28	2.61		ng/l	0.990	0.495	1
CI4-BZ#44	ND		ng/l	0.990	0.495	1
CI4-BZ#49	1.35		ng/l	0.990	0.495	1
CI4-BZ#52	1.30		ng/l	0.990	0.495	1
CI4-BZ#66	ND		ng/l	0.990	0.495	1
CI5-BZ#87	ND		ng/l	0.990	0.495	1
CI5-BZ#101	ND		ng/l	0.990	0.495	1
CI5-BZ#105	ND		ng/l	0.990	0.495	1
CI5-BZ#118	ND		ng/l	0.990	0.495	1
CI6-BZ#128	ND		ng/l	0.990	0.495	1
CI6-BZ#138	ND		ng/l	0.990	0.495	1
CI6-BZ#153	ND		ng/l	0.990	0.495	1
CI7-BZ#170	ND		ng/l	0.990	0.495	1
CI7-BZ#180	ND		ng/l	0.990	0.495	1
CI7-BZ#183	ND		ng/l	0.990	0.495	1
CI7-BZ#184	ND		ng/l	0.990	0.495	1
CI7-BZ#187	ND		ng/l	0.990	0.495	1
CI8-BZ#195	ND		ng/l	0.990	0.495	1
CI9-BZ#206	ND		ng/l	0.990	0.495	1
CI10-BZ#209	ND		ng/l	0.990	0.495	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	88		50-125
BZ 198	95		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 09/27/22 11:41
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 12:27

Parameter	Result	Qualifier	Units	RL	MDL
PCB Congeners (NOAA List) - Mansfield Lab for sample(s): 01-13 Batch: WG1688308-1					
CI2-BZ#8	ND		ng/l	1.00	0.500
CI3-BZ#18	ND		ng/l	1.00	0.500
CI3-BZ#28	ND		ng/l	1.00	0.500
CI4-BZ#44	ND		ng/l	1.00	0.500
CI4-BZ#49	ND		ng/l	1.00	0.500
CI4-BZ#52	ND		ng/l	1.00	0.500
CI4-BZ#66	ND		ng/l	1.00	0.500
CI5-BZ#87	ND		ng/l	1.00	0.500
CI5-BZ#101	ND		ng/l	1.00	0.500
CI5-BZ#105	ND		ng/l	1.00	0.500
CI5-BZ#118	ND		ng/l	1.00	0.500
CI6-BZ#128	ND		ng/l	1.00	0.500
CI6-BZ#138	ND		ng/l	1.00	0.500
CI6-BZ#153	ND		ng/l	1.00	0.500
CI7-BZ#170	ND		ng/l	1.00	0.500
CI7-BZ#180	ND		ng/l	1.00	0.500
CI7-BZ#183	ND		ng/l	1.00	0.500
CI7-BZ#184	ND		ng/l	1.00	0.500
CI7-BZ#187	ND		ng/l	1.00	0.500
CI8-BZ#195	ND		ng/l	1.00	0.500
CI9-BZ#206	ND		ng/l	1.00	0.500
CI10-BZ#209	ND		ng/l	1.00	0.500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
DBOB	86		50-125
BZ 198	101		50-125



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 09/28/22 11:50
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 16:20

Parameter	Result	Qualifier	Units	RL	MDL
PCB Congeners (NOAA List) - Mansfield Lab for sample(s): 14-22 Batch: WG1688460-1					
CI2-BZ#8	ND		ng/l	1.00	0.500
CI3-BZ#18	ND		ng/l	1.00	0.500
CI3-BZ#28	ND		ng/l	1.00	0.500
CI4-BZ#44	ND		ng/l	1.00	0.500
CI4-BZ#49	ND		ng/l	1.00	0.500
CI4-BZ#52	ND		ng/l	1.00	0.500
CI4-BZ#66	ND		ng/l	1.00	0.500
CI5-BZ#87	ND		ng/l	1.00	0.500
CI5-BZ#101	ND		ng/l	1.00	0.500
CI5-BZ#105	ND		ng/l	1.00	0.500
CI5-BZ#118	ND		ng/l	1.00	0.500
CI6-BZ#128	ND		ng/l	1.00	0.500
CI6-BZ#138	ND		ng/l	1.00	0.500
CI6-BZ#153	ND		ng/l	1.00	0.500
CI7-BZ#170	ND		ng/l	1.00	0.500
CI7-BZ#180	ND		ng/l	1.00	0.500
CI7-BZ#183	ND		ng/l	1.00	0.500
CI7-BZ#184	ND		ng/l	1.00	0.500
CI7-BZ#187	ND		ng/l	1.00	0.500
CI8-BZ#195	ND		ng/l	1.00	0.500
CI9-BZ#206	ND		ng/l	1.00	0.500
CI10-BZ#209	ND		ng/l	1.00	0.500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
DBOB	100		50-125
BZ 198	92		50-125



Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Congeners (NOAA List) - Mansfield Lab Associated sample(s): 01-13 Batch: WG1688308-2 WG1688308-3								
Cl2-BZ#8	84		54		40-140	43	Q	30
Cl3-BZ#18	84		54		40-140	43	Q	30
Cl3-BZ#28	86		57		40-140	41	Q	30
Cl4-BZ#44	96		64		40-140	40	Q	30
Cl4-BZ#49	89		59		40-140	41	Q	30
Cl4-BZ#52	91		59		40-140	43	Q	30
Cl4-BZ#66	102		68		40-140	40	Q	30
Cl5-BZ#87	100		67		40-140	40	Q	30
Cl5-BZ#101	95		64		40-140	39	Q	30
Cl5-BZ#105	102		71		40-140	36	Q	30
Cl5-BZ#118	95		66		40-140	36	Q	30
Cl6-BZ#128	101		71		40-140	35	Q	30
Cl6-BZ#138	96		67		40-140	36	Q	30
Cl6-BZ#153	97		69		40-140	34	Q	30
Cl7-BZ#170	124		89		40-140	33	Q	30
Cl7-BZ#180	91		68		40-140	29		30
Cl7-BZ#183	92		66		40-140	33	Q	30
Cl7-BZ#184	89		64		40-140	33	Q	30
Cl7-BZ#187	95		67		40-140	35	Q	30
Cl8-BZ#195	98		73		40-140	29		30
Cl9-BZ#206	90		70		40-140	25		30
Cl10-BZ#209	84		66		40-140	24		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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PCB Congeners (NOAA List) - Mansfield Lab Associated sample(s): 01-13 Batch: WG1688308-2 WG1688308-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
DBOB	104		73		50-125
BZ 198	119		75		50-125

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Congeners (NOAA List) - Mansfield Lab Associated sample(s): 14-22 Batch: WG1688460-2 WG1688460-3								
CI2-BZ#8	90		82		40-140	9		30
CI3-BZ#18	89		80		40-140	11		30
CI3-BZ#28	93		87		40-140	7		30
CI4-BZ#44	101		96		40-140	5		30
CI4-BZ#49	98		92		40-140	6		30
CI4-BZ#52	94		86		40-140	9		30
CI4-BZ#66	108		102		40-140	6		30
CI5-BZ#87	112		105		40-140	6		30
CI5-BZ#101	107		100		40-140	7		30
CI5-BZ#105	117		110		40-140	6		30
CI5-BZ#118	106		101		40-140	5		30
CI6-BZ#128	120		112		40-140	7		30
CI6-BZ#138	112		106		40-140	6		30
CI6-BZ#153	114		109		40-140	4		30
CI7-BZ#170	158	Q	148	Q	40-140	7		30
CI7-BZ#180	112		109		40-140	3		30
CI7-BZ#183	113		108		40-140	5		30
CI7-BZ#184	113		105		40-140	7		30
CI7-BZ#187	115		108		40-140	6		30
CI8-BZ#195	125		119		40-140	5		30
CI9-BZ#206	126		121		40-140	4		30
CI10-BZ#209	117		113		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
PCB Congeners (NOAA List) - Mansfield Lab Associated sample(s): 14-22 Batch: WG1688460-2 WG1688460-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
DBOB	109		107		50-125
BZ 198	123		124		50-125

PESTICIDES

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 19:08
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 19:21
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
 Client ID: 2ND PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 19:33
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
 Client ID: 3RD PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 19:46
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
 Client ID: 4TH PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 19:59
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 20:11
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
 Client ID: IP-30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 20:49
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
 Client ID: IP-1HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:00
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
 Client ID: IP-1HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:10
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:20
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
 Client ID: IP-2HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 20:24
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 20:36
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
 Client ID: IP-3HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 20:49
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:01
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
 Client ID: IP-4HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:31
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:14
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
 Client ID: IP-5HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:41
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
 Client ID: IP-6HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:52
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
 Client ID: IP-6HR 30MIN-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:26
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
 Client ID: IP-30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 18:56
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
 Client ID: IP-1HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:39
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
 Client ID: IP-1HR 30MIN POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 21:52
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
 Client ID: IP-2HR POST-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/18/22 19:26
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06,11-14,16,19,21-22 Batch: WG1688219-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 09/18/22 19:26
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06,11-14,16,19,21-22 Batch: WG1688219-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/18/22 20:08
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-10,15,17-18,20 Batch: WG1688342-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/18/22 20:08
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07-10,15,17-18,20 Batch: WG1688342-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	77		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06,11-14,16,19,21-22 Batch: WG1688219-2 WG1688219-3									
Delta-BHC	62		85		30-150	32	Q	20	A
Lindane	66		88		30-150	29	Q	20	A
Alpha-BHC	67		90		30-150	29	Q	20	A
Beta-BHC	59		78		30-150	28	Q	20	A
Heptachlor	69		92		30-150	29	Q	20	A
Aldrin	68		92		30-150	31	Q	20	A
Heptachlor epoxide	66		92		30-150	33	Q	20	A
Endrin	68		96		30-150	34	Q	20	A
Endrin aldehyde	57		87		30-150	42	Q	20	A
Endrin ketone	70		100		30-150	36	Q	20	A
Dieldrin	68		95		30-150	33	Q	20	A
4,4'-DDE	70		100		30-150	35	Q	20	A
4,4'-DDD	75		108		30-150	36	Q	20	A
4,4'-DDT	76		110		30-150	36	Q	20	A
Endosulfan I	64		94		30-150	37	Q	20	A
Endosulfan II	67		96		30-150	35	Q	20	A
Endosulfan sulfate	66		94		30-150	35	Q	20	A
Methoxychlor	76		112		30-150	38	Q	20	A
cis-Chlordane	64		85		30-150	29	Q	20	A
trans-Chlordane	80		110		30-150	31	Q	20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06,11-14,16,19,21-22 Batch: WG1688219-2 WG1688219-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	60		81		30-150	A
Decachlorobiphenyl	70		101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		80		30-150	B
Decachlorobiphenyl	53		79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-10,15,17-18,20 Batch: WG1688342-2 WG1688342-3									
Delta-BHC	63		74		30-150	15		20	A
Lindane	68		80		30-150	16		20	A
Alpha-BHC	70		83		30-150	17		20	A
Beta-BHC	62		73		30-150	15		20	A
Heptachlor	72		84		30-150	15		20	A
Aldrin	71		83		30-150	16		20	A
Heptachlor epoxide	71		82		30-150	15		20	A
Endrin	72		84		30-150	15		20	A
Endrin aldehyde	65		71		30-150	9		20	A
Endrin ketone	76		87		30-150	13		20	A
Dieldrin	72		84		30-150	15		20	A
4,4'-DDE	74		88		30-150	17		20	A
4,4'-DDD	81		94		30-150	15		20	A
4,4'-DDT	83		96		30-150	14		20	A
Endosulfan I	71		83		30-150	15		20	A
Endosulfan II	72		83		30-150	14		20	A
Endosulfan sulfate	70		81		30-150	14		20	A
Methoxychlor	87		95		30-150	9		20	A
cis-Chlordane	67		77		30-150	14		20	A
trans-Chlordane	84		99		30-150	16		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-10,15,17-18,20 Batch: WG1688342-2 WG1688342-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	62		75		30-150	A
Decachlorobiphenyl	79		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		73		30-150	B
Decachlorobiphenyl	60		67		30-150	B

METALS

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-01
 Client ID: 1ST PRE-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
 Date Received: 09/12/22
 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	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00096		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Barium, Total	0.03126		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00089	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Iron, Total	1.24		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Manganese, Total	0.06116		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:38	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Sodium, Total	250.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP
Zinc, Total	0.05042		mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 22:26	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-02

Date Collected: 09/09/22 07:30

Client ID: 2ND PRE-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00124		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Barium, Total	0.03230		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00089	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Iron, Total	0.750		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05995		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:17	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Sodium, Total	232.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP
Zinc, Total	0.02805		mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 22:36	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-03

Date Collected: 09/09/22 08:00

Client ID: 3RD PRE-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00114		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Barium, Total	0.03269		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00065	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Iron, Total	0.537		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05301		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:41	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Sodium, Total	222.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP
Zinc, Total	0.01120		mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 22:41	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-04

Date Collected: 09/09/22 08:30

Client ID: 4TH PRE-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00100		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Barium, Total	0.03186		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00056	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Iron, Total	0.460		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Manganese, Total	0.04823		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00012	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:44	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Sodium, Total	237.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00945	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:00	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-05
 Client ID: IP-0HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
 Date Received: 09/12/22
 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	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00110		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Barium, Total	0.03077		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00073	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Iron, Total	0.589		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05428		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:48	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Sodium, Total	273.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00822	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:05	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-06

Date Collected: 09/09/22 09:50

Client ID: IP-30MIN-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00104		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Barium, Total	0.03302		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00071	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Iron, Total	0.526		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05424		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:51	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Sodium, Total	285.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00860	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:10	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-07

Date Collected: 09/09/22 10:20

Client ID: IP-1HR-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00105		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Barium, Total	0.03302		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00077	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Iron, Total	0.506		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05204		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:54	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Sodium, Total	294.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP
Zinc, Total	0.01345		mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:15	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-08

Date Collected: 09/09/22 10:50

Client ID: IP-1HR 30MIN-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00115		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Barium, Total	0.03274		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00065	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Iron, Total	0.439		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05329		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:58	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Sodium, Total	322.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00633	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:19	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-09
 Client ID: IP-2HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
 Date Received: 09/12/22
 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	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00128		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Barium, Total	0.03371		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00059	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Iron, Total	0.534		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05711		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:01	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Sodium, Total	363.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00794	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:24	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-10

Date Collected: 09/09/22 12:20

Client ID: IP-2HR 30MIN-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00115		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Barium, Total	0.03600		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00102		mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Iron, Total	0.828		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Manganese, Total	0.07853		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:04	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Sodium, Total	376.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00997	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:29	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-11
 Client ID: IP-3HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
 Date Received: 09/12/22
 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	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00140		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Barium, Total	0.03575		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00097	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Iron, Total	0.889		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Manganese, Total	0.08869		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00012	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:18	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Sodium, Total	403.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP
Zinc, Total	0.01412		mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:34	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-12

Date Collected: 09/09/22 13:20

Client ID: IP-3HR 30MIN-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00110		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Barium, Total	0.03424		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00047	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Iron, Total	0.480		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05809		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:22	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Sodium, Total	450.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00658	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:39	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-13
 Client ID: IP-4HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
 Date Received: 09/12/22
 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	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00104		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Barium, Total	0.03456		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00054	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Iron, Total	0.373		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05089		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:25	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Sodium, Total	482.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00774	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:44	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-14

Date Collected: 09/09/22 14:35

Client ID: IP-4HR 30MIN-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00117		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Barium, Total	0.03553		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00061	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Iron, Total	0.688		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05634		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:28	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Sodium, Total	454.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP
Zinc, Total	0.01550		mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 23:58	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-15
 Client ID: IP-5HR-TRIAL
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
 Date Received: 09/12/22
 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	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00114		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Barium, Total	0.03514		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00057	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Iron, Total	0.399		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Manganese, Total	0.04836		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:32	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Sodium, Total	448.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00839	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/04/22 00:03	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-16

Date Collected: 09/09/22 15:30

Client ID: IP-5HR 30MIN-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00115		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Barium, Total	0.03433		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00054	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Iron, Total	0.504		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05220		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:35	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Sodium, Total	420.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP
Zinc, Total	0.01083		mg/l	0.01000	0.00341	1	09/15/22 12:52	10/04/22 00:08	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-17

Date Collected: 09/09/22 16:00

Client ID: IP-6HR-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00124		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Barium, Total	0.03665		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00078	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Iron, Total	0.613		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Manganese, Total	0.05840		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:38	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Sodium, Total	425.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00938	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/04/22 00:13	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-18

Date Collected: 09/09/22 16:30

Client ID: IP-6HR 30MIN-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00116		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Barium, Total	0.03366		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00048	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Iron, Total	0.409		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Manganese, Total	0.04597		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:41	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Sodium, Total	382.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00694	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/04/22 00:17	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-19

Date Collected: 09/09/22 17:35

Client ID: IP-30MIN POST-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00117		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Barium, Total	0.03265		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00051	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Iron, Total	0.364		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Manganese, Total	0.04437		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:45	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Sodium, Total	314.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00711	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/04/22 00:22	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-20

Date Collected: 09/09/22 18:05

Client ID: IP-1HR POST-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00111		mg/l	0.00050	0.00016	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Barium, Total	0.03221		mg/l	0.00050	0.00017	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00090	J	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Iron, Total	0.414		mg/l	0.0500	0.0191	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Manganese, Total	0.04677		mg/l	0.00100	0.00044	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00012	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 15:48	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Sodium, Total	260.		mg/l	0.100	0.0293	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00927	J	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/04/22 00:27	EPA 3005A	1,6020B	WKP



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-21

Date Collected: 09/09/22 18:35

Client ID: IP-1HR 30MIN POST-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	0.00058	J	mg/l	0.00400	0.00042	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00111		mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Barium, Total	0.03173		mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Chromium, Total	0.00073	J	mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Iron, Total	0.477		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Manganese, Total	0.04413		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 11:03	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Sodium, Total	198.		mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Thallium, Total	0.00019	J	mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV
Zinc, Total	0.00665	J	mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 13:54	EPA 3005A	1,6020B	SV



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**SAMPLE RESULTS**

Lab ID: L2249449-22

Date Collected: 09/09/22 19:05

Client ID: IP-2HR POST-TRIAL

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	0.00048	J	mg/l	0.00400	0.00042	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00110		mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Barium, Total	0.03137		mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Chromium, Total	0.00061	J	mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Iron, Total	0.434		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Manganese, Total	0.04253		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Mercury, Total	0.00015	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 10:53	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Sodium, Total	186.		mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV
Zinc, Total	0.00660	J	mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 13:59	EPA 3005A	1,6020B	SV



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

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): 01-20 Batch: WG1687626-1									
Antimony, Total	ND	mg/l	0.00400	0.00042	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Barium, Total	ND	mg/l	0.00050	0.00017	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Chromium, Total	ND	mg/l	0.00100	0.00017	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Iron, Total	ND	mg/l	0.0500	0.0191	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Manganese, Total	ND	mg/l	0.00100	0.00044	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Selenium, Total	ND	mg/l	0.00500	0.00173	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Silver, Total	ND	mg/l	0.00040	0.00016	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Sodium, Total	ND	mg/l	0.100	0.0293	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Thallium, Total	ND	mg/l	0.00100	0.00014	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP
Zinc, Total	ND	mg/l	0.01000	0.00341	1	09/15/22 12:52	10/03/22 21:57	1,6020B	WKP

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): 01-20 Batch: WG1687629-1										
Mercury, Total	0.00010	J	mg/l	0.00020	0.00009	1	09/15/22 14:00	09/19/22 14:10	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21-22 Batch: WG1687630-1									
Antimony, Total	ND	mg/l	0.00400	0.00042	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Barium, Total	ND	mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Method Blank Analysis Batch Quality Control

Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Sodium, Total	0.0317	J	mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Thallium, Total	0.00018	J	mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV

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): 21-22 Batch: WG1690100-1										
Mercury, Total	0.00018	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 10:38	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249449

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1687626-2								
Antimony, Total	87		-		80-120	-		
Arsenic, Total	99		-		80-120	-		
Barium, Total	95		-		80-120	-		
Beryllium, Total	105		-		80-120	-		
Cadmium, Total	97		-		80-120	-		
Chromium, Total	94		-		80-120	-		
Iron, Total	100		-		80-120	-		
Manganese, Total	94		-		80-120	-		
Selenium, Total	100		-		80-120	-		
Silver, Total	100		-		80-120	-		
Sodium, Total	99		-		80-120	-		
Thallium, Total	98		-		80-120	-		
Zinc, Total	92		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-20 Batch: WG1687629-2								
Mercury, Total	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249449

Report Date: 10/04/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-22 Batch: WG1687630-2					
Antimony, Total	95	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	110	-	80-120	-	
Cadmium, Total	100	-	80-120	-	
Chromium, Total	96	-	80-120	-	
Iron, Total	101	-	80-120	-	
Manganese, Total	97	-	80-120	-	
Selenium, Total	97	-	80-120	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	104	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Zinc, Total	94	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 21-22 Batch: WG1690100-2					
Mercury, Total	111	-	80-120	-	

Matrix Spike Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1687626-3 QC Sample: L2249449-01 Client ID: 1ST PRE-TRIAL												
Antimony, Total	ND	0.5	0.4537	91		-	-		75-125	-		20
Arsenic, Total	0.00096	0.12	0.1261	104		-	-		75-125	-		20
Barium, Total	0.03126	2	1.926	95		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05271	105		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05107	96		-	-		75-125	-		20
Chromium, Total	0.00089J	0.2	0.1912	96		-	-		75-125	-		20
Iron, Total	1.24	1	2.14	90		-	-		75-125	-		20
Manganese, Total	0.06116	0.5	0.5430	96		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.115	96		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05004	100		-	-		75-125	-		20
Sodium, Total	250.	10	251	10	Q	-	-		75-125	-		20
Thallium, Total	ND	0.12	0.1212	101		-	-		75-125	-		20
Zinc, Total	0.05042	0.5	0.5109	92		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1687629-3 QC Sample: L2249449-02 Client ID: 2ND PRE-TRIAL												
Mercury, Total	0.00011J	0.005	0.00465	93		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-22 QC Batch ID: WG1687630-3 QC Sample: L2249449-21 Client ID: IP-1HR 30MIN POST-TRIAL									
Antimony, Total	0.00058J	0.5	0.4792	96	-	-	75-125	-	20
Arsenic, Total	0.00111	0.12	0.1242	102	-	-	75-125	-	20
Barium, Total	0.03173	2	1.998	98	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05373	107	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05266	99	-	-	75-125	-	20
Chromium, Total	0.00073J	0.2	0.1898	95	-	-	75-125	-	20
Iron, Total	0.477	1	1.46	98	-	-	75-125	-	20
Manganese, Total	0.04413	0.5	0.5203	95	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.124	103	-	-	75-125	-	20
Silver, Total	ND	0.05	0.05118	102	-	-	75-125	-	20
Sodium, Total	198.	10	241	430	Q	-	75-125	-	20
Thallium, Total	0.00019J	0.12	0.1251	104	-	-	75-125	-	20
Zinc, Total	0.00665J	0.5	0.4602	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 21-22 QC Batch ID: WG1690100-3 QC Sample: L2249449-22 Client ID: IP-2HR POST-TRIAL									
Mercury, Total	0.00015J	0.005	0.00472	94	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249449

Report Date: 10/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1687626-4 QC Sample: L2249449-01 Client ID: 1ST PRE-TRIAL						
Antimony, Total	ND	0.00053J	mg/l	NC		20
Arsenic, Total	0.00096	0.00099	mg/l	3		20
Barium, Total	0.03126	0.03156	mg/l	1		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	0.00006J	mg/l	NC		20
Chromium, Total	0.00089J	0.00092J	mg/l	NC		20
Iron, Total	1.24	1.17	mg/l	6		20
Manganese, Total	0.06116	0.05623	mg/l	8		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	250.	228	mg/l	9		20
Thallium, Total	ND	0.00041J	mg/l	NC		20
Zinc, Total	0.05042	0.04736	mg/l	6		20
Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1687629-4 QC Sample: L2249449-02 Client ID: 2ND PRE-TRIAL						
Mercury, Total	0.00011J	0.00011J	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249449

Report Date: 10/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21-22 QC Batch ID: WG1687630-4 QC Sample: L2249449-21 Client ID: IP-1HR 30MIN POST-TRIAL					
Antimony, Total	0.00058J	0.00092J	mg/l	NC	20
Arsenic, Total	0.00111	0.00108	mg/l	3	20
Barium, Total	0.03173	0.03211	mg/l	1	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	0.00073J	0.00075J	mg/l	NC	20
Iron, Total	0.477	0.504	mg/l	6	20
Manganese, Total	0.04413	0.04530	mg/l	3	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	198.	198	mg/l	0	20
Thallium, Total	0.00019J	0.00069J	mg/l	NC	20
Zinc, Total	0.00665J	0.00687J	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 21-22 QC Batch ID: WG1690100-4 QC Sample: L2249449-22 Client ID: IP-2HR POST-TRIAL					
Mercury, Total	0.00015J	0.00013J	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-01
Client ID: 1ST PRE-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:00
Date Received: 09/12/22
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										
Solids, Total Suspended	23.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MD
Chloride	450		mg/l	10	8.9	10	-	09/26/22 22:27	121,4500CL-E	TL
Fluoride	0.12	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	68.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	2.14		mg/l	0.500	0.097	1	-	09/28/22 06:44	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-02
Client ID: 2ND PRE-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 07:30
Date Received: 09/12/22
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										
Solids, Total Suspended	22.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MD
Chloride	430		mg/l	10	8.9	10	-	09/26/22 22:29	121,4500CL-E	TL
Fluoride	0.13	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	62.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.89		mg/l	0.500	0.097	1	-	09/28/22 07:06	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-03
Client ID: 3RD PRE-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:00
Date Received: 09/12/22
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										
Solids, Total Suspended	18.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MD
Chloride	410		mg/l	20	18.	20	-	09/26/22 20:59	121,4500CL-E	TL
Fluoride	0.11	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	66.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.88		mg/l	0.500	0.097	1	-	09/28/22 07:28	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-04
Client ID: 4TH PRE-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:30
Date Received: 09/12/22
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										
Solids, Total Suspended	16.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MD
Chloride	430		mg/l	10	8.9	10	-	09/26/22 22:31	121,4500CL-E	TL
Fluoride	0.12	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	72.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.85		mg/l	0.500	0.097	1	-	09/28/22 07:50	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-05
Client ID: IP-0HR-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:20
Date Received: 09/12/22
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										
Solids, Total Suspended	21.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	510		mg/l	10	8.9	10	-	09/26/22 22:33	121,4500CL-E	TL
Fluoride	0.12	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	85.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.76		mg/l	0.500	0.097	1	-	09/28/22 08:12	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-06
Client ID: IP-30MIN-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 09:50
Date Received: 09/12/22
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										
Solids, Total Suspended	21.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	530		mg/l	10	8.9	10	-	09/28/22 20:53	121,4500CL-E	TL
Fluoride	0.12	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	85.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC
Total Organic Carbon	1.66		mg/l	0.500	0.097	1	-	09/28/22 08:33	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-07
Client ID: IP-1HR-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:20
Date Received: 09/12/22
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										
Solids, Total Suspended	14.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	560		mg/l	10	8.9	10	-	09/28/22 21:02	121,4500CL-E	TL
Fluoride	0.12	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	90.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.65		mg/l	0.500	0.097	1	-	09/28/22 08:55	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-08
Client ID: IP-1HR 30MIN-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 10:50
Date Received: 09/12/22
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										
Solids, Total Suspended	20.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	600		mg/l	20	18.	20	-	09/28/22 19:51	121,4500CL-E	TL
Fluoride	0.12	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	94.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.52		mg/l	0.500	0.097	1	-	09/28/22 09:17	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-09
Client ID: IP-2HR-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 11:20
Date Received: 09/12/22
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										
Solids, Total Suspended	20.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	660		mg/l	10	8.9	10	-	09/28/22 21:04	121,4500CL-E	TL
Fluoride	0.12	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	100		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC
Total Organic Carbon	1.55		mg/l	0.500	0.097	1	-	09/28/22 10:54	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-10
Client ID: IP-2HR 30MIN-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:20
Date Received: 09/12/22
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										
Solids, Total Suspended	28.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	700		mg/l	10	8.9	10	-	09/28/22 21:06	121,4500CL-E	TL
Fluoride	0.13	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	96.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC
Total Organic Carbon	1.48		mg/l	0.500	0.097	1	-	09/28/22 11:16	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-11
Client ID: IP-3HR-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:50
Date Received: 09/12/22
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										
Solids, Total Suspended	30.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	740		mg/l	10	8.9	10	-	09/28/22 21:08	121,4500CL-E	TL
Fluoride	0.13	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	93.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.47		mg/l	0.500	0.097	1	-	09/28/22 12:37	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-12
Client ID: IP-3HR 30MIN-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 13:20
Date Received: 09/12/22
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										
Solids, Total Suspended	21.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	830		mg/l	10	8.9	10	-	09/28/22 21:10	121,4500CL-E	TL
Fluoride	0.14	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	97.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.42		mg/l	0.500	0.097	1	-	09/28/22 12:59	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-13
Client ID: IP-4HR-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:20
Date Received: 09/12/22
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										
Solids, Total Suspended	20.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	860		mg/l	10	8.9	10	-	09/28/22 21:12	121,4500CL-E	TL
Fluoride	0.14	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	98.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC
Total Organic Carbon	1.30		mg/l	0.500	0.097	1	-	09/28/22 13:21	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-14
Client ID: IP-4HR 30MIN-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:35
Date Received: 09/12/22
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										
Solids, Total Suspended	30.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	870		mg/l	10	8.9	10	-	09/28/22 21:14	121,4500CL-E	TL
Fluoride	0.14	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	96.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC
Total Organic Carbon	1.27		mg/l	0.500	0.097	1	-	09/28/22 13:43	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-15
Client ID: IP-5HR-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:55
Date Received: 09/12/22
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										
Solids, Total Suspended	18.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	840		mg/l	10	8.9	10	-	09/28/22 21:17	121,4500CL-E	TL
Fluoride	0.14	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	100		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.24		mg/l	0.500	0.097	1	-	09/28/22 14:05	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-16
Client ID: IP-5HR 30MIN-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:30
Date Received: 09/12/22
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										
Solids, Total Suspended	18.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	780		mg/l	10	8.9	10	-	09/28/22 21:19	121,4500CL-E	TL
Fluoride	0.13	J	mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
Sulfate	98.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.37		mg/l	0.500	0.097	1	-	09/28/22 14:27	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-17
Client ID: IP-6HR-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:00
Date Received: 09/12/22
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										
Solids, Total Suspended	19.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	780		mg/l	10	8.9	10	-	09/28/22 21:21	121,4500CL-E	TL
Fluoride	0.15	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	98.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC
Total Organic Carbon	1.32		mg/l	0.500	0.097	1	-	09/28/22 15:25	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-18
Client ID: IP-6HR 30MIN-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 16:30
Date Received: 09/12/22
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										
Solids, Total Suspended	14.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	710		mg/l	20	18.	20	-	09/28/22 20:02	121,4500CL-E	TL
Fluoride	0.15	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	98.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC
Total Organic Carbon	1.41		mg/l	0.500	0.097	1	-	09/28/22 15:47	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-19
Client ID: IP-30MIN POST-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:35
Date Received: 09/12/22
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										
Solids, Total Suspended	14.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	550		mg/l	10	8.9	10	-	09/28/22 21:25	121,4500CL-E	TL
Fluoride	0.13	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	85.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.57		mg/l	0.500	0.097	1	-	09/28/22 16:09	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-20
Client ID: IP-1HR POST-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:05
Date Received: 09/12/22
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										
Solids, Total Suspended	18.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	490		mg/l	10	8.9	10	-	09/28/22 21:27	121,4500CL-E	TL
Fluoride	0.11	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	84.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	1.70		mg/l	0.500	0.097	1	-	09/28/22 16:31	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-21
Client ID: IP-1HR 30MIN POST-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 18:35
Date Received: 09/12/22
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										
Solids, Total Suspended	17.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	420		mg/l	10	8.9	10	-	09/28/22 21:29	121,4500CL-E	TL
Fluoride	0.12	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	73.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	2.44		mg/l	0.500	0.097	1	-	09/29/22 07:49	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

SAMPLE RESULTS

Lab ID: L2249449-22
Client ID: IP-2HR POST-TRIAL
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 19:05
Date Received: 09/12/22
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										
Solids, Total Suspended	17.		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
Chloride	390		mg/l	10	8.9	10	-	09/28/22 21:31	121,4500CL-E	TL
Fluoride	0.11	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	61.		mg/l	25	3.4	2.5	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
Total Organic Carbon	2.73		mg/l	0.500	0.097	1	-	09/29/22 08:10	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

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): 01-04 Batch: WG1687982-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MD
General Chemistry - Westborough Lab for sample(s): 05-13 Batch: WG1687984-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
General Chemistry - Westborough Lab for sample(s): 14-22 Batch: WG1687986-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/15/22 21:10	121,2540D	MD
General Chemistry - Westborough Lab for sample(s): 01-16 Batch: WG1688844-1										
Fluoride	ND		mg/l	0.20	0.01	1	09/18/22 07:55	09/18/22 10:24	121,4500F-BC	ES
General Chemistry - Westborough Lab for sample(s): 17-22 Batch: WG1689079-1										
Fluoride	ND		mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1692214-1										
Chloride	ND		mg/l	1.0	0.89	1	-	09/26/22 20:20	121,4500CL-E	TL
General Chemistry - Westborough Lab for sample(s): 01-20 Batch: WG1692822-1										
Total Organic Carbon	ND		mg/l	0.500	0.097	1	-	09/28/22 05:30	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 06-22 Batch: WG1693156-1										
Chloride	ND		mg/l	1.0	0.89	1	-	09/28/22 19:22	121,4500CL-E	TL
General Chemistry - Westborough Lab for sample(s): 21-22 Batch: WG1693306-1										
Total Organic Carbon	ND		mg/l	0.500	0.097	1	-	09/29/22 05:02	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-05,07-08,11-12,15-16,19-22 Batch: WG1694719-1										
Sulfate	1.5	J	mg/l	10	1.4	1	10/03/22 11:12	10/03/22 11:12	121,4500SO4-E	MC
General Chemistry - Westborough Lab for sample(s): 06,09-10,13-14,17-18 Batch: WG1694723-1										
Sulfate	1.5	J	mg/l	10	1.4	1	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249449

Project Number: 24711.001

Report Date: 10/04/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1687982-2								
Solids, Total Suspended	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 05-13 Batch: WG1687984-2								
Solids, Total Suspended	95		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 14-22 Batch: WG1687986-2								
Solids, Total Suspended	95		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-16 Batch: WG1688844-2								
Fluoride	94		-		78-120	-		
General Chemistry - Westborough Lab Associated sample(s): 17-22 Batch: WG1689079-2								
Fluoride	94		-		78-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1692214-2								
Chloride	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-20 Batch: WG1692822-2								
Total Organic Carbon	96		-		90-110	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249449

Report Date: 10/04/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-22 Batch: WG1693156-2					
Chloride	93	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 21-22 Batch: WG1693306-2					
Total Organic Carbon	101	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08,11-12,15-16,19-22 Batch: WG1694719-2					
Sulfate	100	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 06,09-10,13-14,17-18 Batch: WG1694723-2					
Sulfate	95	-	90-110	-	

Matrix Spike Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG1688844-4 QC Sample: L2249449-01 Client ID: 1ST PRE-TRIAL												
Fluoride	0.12J	1	1.0	103	-	-	-	-	69-124	-	-	13
General Chemistry - Westborough Lab Associated sample(s): 17-22 QC Batch ID: WG1689079-4 QC Sample: L2249477-01 Client ID: MS Sample												
Fluoride	0.11J	1	1.0	101	-	-	-	-	69-124	-	-	13
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1692214-4 QC Sample: L2251349-01 Client ID: MS Sample												
Chloride	61.	20	80	95	-	-	-	-	58-140	-	-	7
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1692822-4 QC Sample: L2249449-01 Client ID: 1ST PRE-TRIAL												
Total Organic Carbon	2.14	16	19.9	111	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 06-22 QC Batch ID: WG1693156-4 QC Sample: L2249449-06 Client ID: IP-30MIN-TRIAL												
Chloride	530	20	530	0	Q	-	-	-	58-140	-	-	7
General Chemistry - Westborough Lab Associated sample(s): 21-22 QC Batch ID: WG1693306-4 QC Sample: L2249524-01 Client ID: MS Sample												
Total Organic Carbon	1.27	16	18.4	107	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08,11-12,15-16,19-22 QC Batch ID: WG1694719-4 QC Sample: L2249449-15 Client ID: IP-5HR-TRIAL												
Sulfate	100	100	200	97	-	-	-	-	55-147	-	-	14
General Chemistry - Westborough Lab Associated sample(s): 06,09-10,13-14,17-18 QC Batch ID: WG1694723-4 QC Sample: L2249477-03 Client ID: MS Sample												
Sulfate	120	250	390	109	-	-	-	-	55-147	-	-	14



Lab Duplicate Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249449
Report Date: 10/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-04	QC Batch ID: WG1687982-3	QC Sample: L2249985-01	Client ID: DUP Sample		
Solids, Total Suspended	580	600	mg/l	3		32
General Chemistry - Westborough Lab	Associated sample(s): 05-13	QC Batch ID: WG1687984-3	QC Sample: L2249985-02	Client ID: DUP Sample		
Solids, Total Suspended	490	470	mg/l	4		32
General Chemistry - Westborough Lab	Associated sample(s): 14-22	QC Batch ID: WG1687986-3	QC Sample: L2249985-03	Client ID: DUP Sample		
Solids, Total Suspended	400	430	mg/l	7		32
General Chemistry - Westborough Lab	Associated sample(s): 01-16	QC Batch ID: WG1688844-3	QC Sample: L2249449-01	Client ID: 1ST PRE-TRIAL		
Fluoride	0.12J	0.13J	mg/l	NC		13
General Chemistry - Westborough Lab	Associated sample(s): 17-22	QC Batch ID: WG1689079-3	QC Sample: L2249477-01	Client ID: DUP Sample		
Fluoride	0.11J	0.11J	mg/l	NC		13
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID: WG1692214-3	QC Sample: L2251349-01	Client ID: DUP Sample		
Chloride	61.	61	mg/l	0		7
General Chemistry - Westborough Lab	Associated sample(s): 01-20	QC Batch ID: WG1692822-3	QC Sample: L2249449-01	Client ID: 1ST PRE-TRIAL		
Total Organic Carbon	2.14	2.18	mg/l	2		20
General Chemistry - Westborough Lab	Associated sample(s): 06-22	QC Batch ID: WG1693156-3	QC Sample: L2249449-06	Client ID: IP-30MIN-TRIAL		
Chloride	530	550	mg/l	4		7
General Chemistry - Westborough Lab	Associated sample(s): 21-22	QC Batch ID: WG1693306-3	QC Sample: L2249524-01	Client ID: DUP Sample		
Total Organic Carbon	1.27	1.33	mg/l	5		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249449

Report Date: 10/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,07-08,11-12,15-16,19-22 QC Batch ID: WG1694719-3 QC Sample: L2249449-15 Client ID: IP-5HR-TRIAL					
Sulfate	100	100	mg/l	0	14
General Chemistry - Westborough Lab Associated sample(s): 06,09-10,13-14,17-18 QC Batch ID: WG1694723-3 QC Sample: L2249477-03 Client ID: DUP Sample					
Sulfate	120	130	mg/l	8	14

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
E	Absent
G	Absent
H	Absent
I	Absent
J	Absent
K	Absent
L	Absent
N	Absent
Y	Absent
Z	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-01A	Vial HCl preserved	G	NA		5.1	Y	Absent		NYTCL-8260(14)
L2249449-01B	Vial HCl preserved	G	NA		5.1	Y	Absent		NYTCL-8260(14)
L2249449-01C	Vial HCl preserved	G	NA		5.1	Y	Absent		NYTCL-8260(14)
L2249449-01D	Vial H2SO4 preserved	G	NA		5.1	Y	Absent		TOC-5310(28)
L2249449-01E	Vial H2SO4 preserved	G	NA		5.1	Y	Absent		TOC-5310(28)
L2249449-01F	Vial H2SO4 preserved	G	NA		5.1	Y	Absent		TOC-5310(28)
L2249449-01G	Amber 120ml unpreserved	G	7	7	5.1	Y	Absent		NYTCL-8081(7)
L2249449-01H	Amber 120ml unpreserved	G	7	7	5.1	Y	Absent		NYTCL-8081(7)

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Serial_No:10042217:44
Lab Number: L2249449
Report Date: 10/04/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-01I	Plastic 250ml HNO3 preserved	G	<2	<2	5.1	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2249449-01J	Amber 250ml unpreserved	G	7	7	5.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-01K	Amber 250ml unpreserved	G	7	7	5.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-01L	Amber 250ml unpreserved	G	7	7	5.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-01M	Amber 250ml unpreserved	G	7	7	5.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-01N	Plastic 500ml unpreserved	G	7	7	5.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-01O	Plastic 950ml unpreserved	G	7	7	5.1	Y	Absent		TSS-2540(7)
L2249449-01P	Amber 1000ml unpreserved	G	7	7	5.1	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-01Q	Amber 1000ml unpreserved	G	7	7	5.1	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-02A	Vial HCl preserved	G	NA		5.1	Y	Absent		NYTCL-8260(14)
L2249449-02B	Vial HCl preserved	G	NA		5.1	Y	Absent		NYTCL-8260(14)
L2249449-02C	Vial HCl preserved	G	NA		5.1	Y	Absent		NYTCL-8260(14)
L2249449-02D	Vial H2SO4 preserved	G	NA		5.1	Y	Absent		TOC-5310(28)
L2249449-02E	Vial H2SO4 preserved	G	NA		5.1	Y	Absent		TOC-5310(28)
L2249449-02F	Vial H2SO4 preserved	G	NA		5.1	Y	Absent		TOC-5310(28)
L2249449-02G	Amber 120ml unpreserved	G	7	7	5.1	Y	Absent		NYTCL-8081(7)
L2249449-02H	Amber 120ml unpreserved	G	7	7	5.1	Y	Absent		NYTCL-8081(7)
L2249449-02I	Plastic 250ml HNO3 preserved	G	<2	<2	5.1	Y	Absent		TL-6020T(180),FE-6020T(180),SE-6020T(180),BA-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180)
L2249449-02J	Amber 250ml unpreserved	G	7	7	5.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-02K	Amber 250ml unpreserved	G	7	7	5.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-02L	Amber 250ml unpreserved	G	7	7	5.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-02M	Amber 250ml unpreserved	G	7	7	5.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-02N	Plastic 500ml unpreserved	G	7	7	5.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-02O	Plastic 950ml unpreserved	G	7	7	5.1	Y	Absent		TSS-2540(7)
L2249449-02P	Amber 1000ml unpreserved	G	7	7	5.1	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-02Q	Amber 1000ml unpreserved	G	7	7	5.1	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-03A	Vial HCl preserved	K	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249449-03B	Vial HCl preserved	K	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249449-03C	Vial HCl preserved	K	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249449-03D	Vial H2SO4 preserved	K	NA		2.8	Y	Absent		TOC-5310(28)
L2249449-03E	Vial H2SO4 preserved	K	NA		2.8	Y	Absent		TOC-5310(28)
L2249449-03F	Vial H2SO4 preserved	K	NA		2.8	Y	Absent		TOC-5310(28)
L2249449-03G	Amber 120ml unpreserved	K	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2249449-03H	Amber 120ml unpreserved	K	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2249449-03I	Plastic 250ml HNO3 preserved	K	<2	<2	2.8	Y	Absent		SE-6020T(180),FE-6020T(180),BA-6020T(180),TL-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180)
L2249449-03J	Amber 250ml unpreserved	K	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-03K	Amber 250ml unpreserved	K	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-03L	Amber 250ml unpreserved	K	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-03M	Amber 250ml unpreserved	K	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-03N	Plastic 500ml unpreserved	K	7	7	2.8	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-03O	Plastic 950ml unpreserved	K	7	7	2.8	Y	Absent		TSS-2540(7)
L2249449-03P	Amber 1000ml unpreserved	K	7	7	2.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-03Q	Amber 1000ml unpreserved	K	7	7	2.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-04A	Vial HCl preserved	K	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249449-04B	Vial HCl preserved	K	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249449-04C	Vial HCl preserved	K	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249449-04D	Vial H2SO4 preserved	K	NA		2.8	Y	Absent		TOC-5310(28)
L2249449-04E	Vial H2SO4 preserved	K	NA		2.8	Y	Absent		TOC-5310(28)
L2249449-04F	Vial H2SO4 preserved	K	NA		2.8	Y	Absent		TOC-5310(28)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-04G	Amber 120ml unpreserved	K	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2249449-04H	Amber 120ml unpreserved	K	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2249449-04I	Plastic 250ml HNO3 preserved	K	<2	<2	2.8	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28)
L2249449-04J	Amber 250ml unpreserved	K	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-04K	Amber 250ml unpreserved	K	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-04L	Amber 250ml unpreserved	K	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-04M	Amber 250ml unpreserved	K	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-04N	Plastic 500ml unpreserved	K	7	7	2.8	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-04O	Plastic 950ml unpreserved	K	7	7	2.8	Y	Absent		TSS-2540(7)
L2249449-04P	Amber 1000ml unpreserved	K	7	7	2.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-04Q	Amber 1000ml unpreserved	K	7	7	2.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-05A	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L2249449-05B	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L2249449-05C	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L2249449-05D	Vial H2SO4 preserved	E	NA		4.2	Y	Absent		TOC-5310(28)
L2249449-05E	Vial H2SO4 preserved	E	NA		4.2	Y	Absent		TOC-5310(28)
L2249449-05F	Vial H2SO4 preserved	E	NA		4.2	Y	Absent		TOC-5310(28)
L2249449-05G	Amber 120ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2249449-05H	Amber 120ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2249449-05I	Plastic 250ml HNO3 preserved	E	<2	<2	4.2	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2249449-05J	Amber 250ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-05K	Amber 250ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-05L	Amber 250ml unpreserved	E	7	7	4.2	Y	Absent		A2-14-DIOXANESIM-PPB(7)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-05M	Amber 250ml unpreserved	E	7	7	4.2	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-05N	Plastic 500ml unpreserved	E	7	7	4.2	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-05O	Plastic 950ml unpreserved	E	7	7	4.2	Y	Absent		TSS-2540(7)
L2249449-05P	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-05Q	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-06A	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L2249449-06B	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L2249449-06C	Vial HCl preserved	E	NA		4.2	Y	Absent		NYTCL-8260(14)
L2249449-06D	Vial H2SO4 preserved	E	NA		4.2	Y	Absent		TOC-5310(28)
L2249449-06E	Vial H2SO4 preserved	E	NA		4.2	Y	Absent		TOC-5310(28)
L2249449-06F	Vial H2SO4 preserved	E	NA		4.2	Y	Absent		TOC-5310(28)
L2249449-06G	Amber 120ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2249449-06H	Amber 120ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8081(7)
L2249449-06I	Plastic 250ml HNO3 preserved	E	<2	<2	4.2	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L2249449-06J	Amber 250ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-06K	Amber 250ml unpreserved	E	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-06L	Amber 250ml unpreserved	E	7	7	4.2	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-06M	Amber 250ml unpreserved	E	7	7	4.2	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-06N	Plastic 500ml unpreserved	E	7	7	4.2	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-06O	Plastic 950ml unpreserved	E	7	7	4.2	Y	Absent		TSS-2540(7)
L2249449-06P	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-06Q	Amber 1000ml unpreserved	E	7	7	4.2	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-07A	Vial HCl preserved	J	NA		5.5	Y	Absent		NYTCL-8260(14)
L2249449-07B	Vial HCl preserved	J	NA		5.5	Y	Absent		NYTCL-8260(14)
L2249449-07C	Vial HCl preserved	J	NA		5.5	Y	Absent		NYTCL-8260(14)
L2249449-07D	Vial H2SO4 preserved	J	NA		5.5	Y	Absent		TOC-5310(28)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-07E	Vial H2SO4 preserved	J	NA		5.5	Y	Absent		TOC-5310(28)
L2249449-07F	Vial H2SO4 preserved	J	NA		5.5	Y	Absent		TOC-5310(28)
L2249449-07G	Amber 120ml unpreserved	J	7	7	5.5	Y	Absent		NYTCL-8081(7)
L2249449-07H	Amber 120ml unpreserved	J	7	7	5.5	Y	Absent		NYTCL-8081(7)
L2249449-07I	Plastic 250ml HNO3 preserved	J	<2	<2	5.5	Y	Absent		TL-6020T(180),SE-6020T(180),FE-6020T(180),BA-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2249449-07J	Amber 250ml unpreserved	J	7	7	5.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-07K	Amber 250ml unpreserved	J	7	7	5.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-07L	Amber 250ml unpreserved	J	7	7	5.5	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-07M	Amber 250ml unpreserved	J	7	7	5.5	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-07N	Plastic 500ml unpreserved	J	7	7	5.5	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-07O	Plastic 950ml unpreserved	J	7	7	5.5	Y	Absent		TSS-2540(7)
L2249449-07P	Amber 1000ml unpreserved	J	7	7	5.5	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-07Q	Amber 1000ml unpreserved	J	7	7	5.5	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-08A	Vial HCl preserved	J	NA		5.5	Y	Absent		NYTCL-8260(14)
L2249449-08B	Vial HCl preserved	J	NA		5.5	Y	Absent		NYTCL-8260(14)
L2249449-08C	Vial HCl preserved	J	NA		5.5	Y	Absent		NYTCL-8260(14)
L2249449-08D	Vial H2SO4 preserved	J	NA		5.5	Y	Absent		TOC-5310(28)
L2249449-08E	Vial H2SO4 preserved	J	NA		5.5	Y	Absent		TOC-5310(28)
L2249449-08F	Vial H2SO4 preserved	J	NA		5.5	Y	Absent		TOC-5310(28)
L2249449-08G	Amber 120ml unpreserved	J	7	7	5.5	Y	Absent		NYTCL-8081(7)
L2249449-08H	Amber 120ml unpreserved	J	7	7	5.5	Y	Absent		NYTCL-8081(7)
L2249449-08I	Plastic 250ml HNO3 preserved	J	<2	<2	5.5	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L2249449-08J	Amber 250ml unpreserved	J	7	7	5.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-08K	Amber 250ml unpreserved	J	7	7	5.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-08L	Amber 250ml unpreserved	J	7	7	5.5	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-08M	Amber 250ml unpreserved	J	7	7	5.5	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-08N	Plastic 500ml unpreserved	J	7	7	5.5	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-08O	Plastic 950ml unpreserved	J	7	7	5.5	Y	Absent		TSS-2540(7)
L2249449-08P	Amber 1000ml unpreserved	J	7	7	5.5	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-08Q	Amber 1000ml unpreserved	J	7	7	5.5	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-09A	Vial HCl preserved	I	NA		3.7	Y	Absent		NYTCL-8260(14)
L2249449-09B	Vial HCl preserved	I	NA		3.7	Y	Absent		NYTCL-8260(14)
L2249449-09C	Vial HCl preserved	I	NA		3.7	Y	Absent		NYTCL-8260(14)
L2249449-09D	Vial H2SO4 preserved	I	NA		3.7	Y	Absent		TOC-5310(28)
L2249449-09E	Vial H2SO4 preserved	I	NA		3.7	Y	Absent		TOC-5310(28)
L2249449-09F	Vial H2SO4 preserved	I	NA		3.7	Y	Absent		TOC-5310(28)
L2249449-09G	Amber 120ml unpreserved	I	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2249449-09H	Amber 120ml unpreserved	I	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2249449-09I	Plastic 250ml HNO3 preserved	I	<2	<2	3.7	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L2249449-09J	Amber 250ml unpreserved	I	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-09K	Amber 250ml unpreserved	I	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-09L	Amber 250ml unpreserved	I	7	7	3.7	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-09M	Amber 250ml unpreserved	I	7	7	3.7	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-09N	Plastic 500ml unpreserved	I	7	7	3.7	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-09O	Plastic 950ml unpreserved	I	7	7	3.7	Y	Absent		TSS-2540(7)
L2249449-09P	Amber 1000ml unpreserved	I	7	7	3.7	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-09Q	Amber 1000ml unpreserved	I	7	7	3.7	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-10A	Vial HCl preserved	I	NA		3.7	Y	Absent		NYTCL-8260(14)
L2249449-10B	Vial HCl preserved	I	NA		3.7	Y	Absent		NYTCL-8260(14)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-10C	Vial HCl preserved	I	NA		3.7	Y	Absent		NYTCL-8260(14)
L2249449-10D	Vial H2SO4 preserved	I	NA		3.7	Y	Absent		TOC-5310(28)
L2249449-10E	Vial H2SO4 preserved	I	NA		3.7	Y	Absent		TOC-5310(28)
L2249449-10F	Vial H2SO4 preserved	I	NA		3.7	Y	Absent		TOC-5310(28)
L2249449-10G	Amber 120ml unpreserved	I	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2249449-10H	Amber 120ml unpreserved	I	7	7	3.7	Y	Absent		NYTCL-8081(7)
L2249449-10I	Plastic 250ml HNO3 preserved	I	<2	<2	3.7	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180)
L2249449-10J	Amber 250ml unpreserved	I	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-10K	Amber 250ml unpreserved	I	7	7	3.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-10L	Amber 250ml unpreserved	I	7	7	3.7	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-10M	Amber 250ml unpreserved	I	7	7	3.7	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-10N	Plastic 500ml unpreserved	I	7	7	3.7	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-10O	Plastic 950ml unpreserved	I	7	7	3.7	Y	Absent		TSS-2540(7)
L2249449-10P	Amber 1000ml unpreserved	I	7	7	3.7	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-10Q	Amber 1000ml unpreserved	I	7	7	3.7	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-11A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2249449-11B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2249449-11C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2249449-11D	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-5310(28)
L2249449-11E	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-5310(28)
L2249449-11F	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-5310(28)
L2249449-11G	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2249449-11H	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-11I	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180)
L2249449-11J	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-11K	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-11L	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-11M	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-11N	Plastic 500ml unpreserved	A	7	7	2.6	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-11O	Plastic 950ml unpreserved	A	7	7	2.6	Y	Absent		TSS-2540(7)
L2249449-11P	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-11Q	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-12A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2249449-12B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2249449-12C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2249449-12D	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-5310(28)
L2249449-12E	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-5310(28)
L2249449-12F	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-5310(28)
L2249449-12G	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2249449-12H	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2249449-12I	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180)
L2249449-12J	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-12K	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-12L	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-12M	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-12N	Plastic 500ml unpreserved	A	7	7	2.6	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-12O	Plastic 950ml unpreserved	A	7	7	2.6	Y	Absent		TSS-2540(7)
L2249449-12P	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-12Q	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-13A	Vial HCl preserved	N	NA		3.3	Y	Absent		NYTCL-8260(14)
L2249449-13B	Vial HCl preserved	N	NA		3.3	Y	Absent		NYTCL-8260(14)
L2249449-13C	Vial HCl preserved	N	NA		3.3	Y	Absent		NYTCL-8260(14)
L2249449-13D	Vial H2SO4 preserved	N	NA		3.3	Y	Absent		TOC-5310(28)
L2249449-13E	Vial H2SO4 preserved	N	NA		3.3	Y	Absent		TOC-5310(28)
L2249449-13F	Vial H2SO4 preserved	N	NA		3.3	Y	Absent		TOC-5310(28)
L2249449-13G	Amber 120ml unpreserved	N	7	7	3.3	Y	Absent		NYTCL-8081(7)
L2249449-13H	Amber 120ml unpreserved	N	7	7	3.3	Y	Absent		NYTCL-8081(7)
L2249449-13I	Plastic 250ml HNO3 preserved	N	<2	<2	3.3	Y	Absent		SE-6020T(180),BA-6020T(180),FE-6020T(180),TL-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28)
L2249449-13J	Amber 250ml unpreserved	N	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-13K	Amber 250ml unpreserved	N	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-13L	Amber 250ml unpreserved	N	7	7	3.3	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-13M	Amber 250ml unpreserved	N	7	7	3.3	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-13N	Plastic 500ml unpreserved	N	7	7	3.3	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-13O	Plastic 950ml unpreserved	N	7	7	3.3	Y	Absent		TSS-2540(7)
L2249449-13P	Amber 1000ml unpreserved	N	7	7	3.3	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-13Q	Amber 1000ml unpreserved	N	7	7	3.3	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-14A	Vial HCl preserved	N	NA		3.3	Y	Absent		NYTCL-8260(14)
L2249449-14B	Vial HCl preserved	N	NA		3.3	Y	Absent		NYTCL-8260(14)
L2249449-14C	Vial HCl preserved	N	NA		3.3	Y	Absent		NYTCL-8260(14)
L2249449-14D	Vial H2SO4 preserved	N	NA		3.3	Y	Absent		TOC-5310(28)
L2249449-14E	Vial H2SO4 preserved	N	NA		3.3	Y	Absent		TOC-5310(28)
L2249449-14F	Vial H2SO4 preserved	N	NA		3.3	Y	Absent		TOC-5310(28)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-14G	Amber 120ml unpreserved	N	7	7	3.3	Y	Absent		NYTCL-8081(7)
L2249449-14H	Amber 120ml unpreserved	N	7	7	3.3	Y	Absent		NYTCL-8081(7)
L2249449-14I	Plastic 250ml HNO3 preserved	N	<2	<2	3.3	Y	Absent		TL-6020T(180),FE-6020T(180),BA-6020T(180),SE-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28)
L2249449-14J	Amber 250ml unpreserved	N	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-14K	Amber 250ml unpreserved	N	7	7	3.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-14L	Amber 250ml unpreserved	N	7	7	3.3	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-14M	Amber 250ml unpreserved	N	7	7	3.3	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-14N	Plastic 500ml unpreserved	N	7	7	3.3	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-14O	Plastic 950ml unpreserved	N	7	7	3.3	Y	Absent		TSS-2540(7)
L2249449-14P	Amber 1000ml unpreserved	N	7	7	3.3	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-14Q	Amber 1000ml unpreserved	N	7	7	3.3	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-15A	Vial HCl preserved	H	NA		3.8	Y	Absent		NYTCL-8260(14)
L2249449-15B	Vial HCl preserved	H	NA		3.8	Y	Absent		NYTCL-8260(14)
L2249449-15C	Vial HCl preserved	H	NA		3.8	Y	Absent		NYTCL-8260(14)
L2249449-15D	Vial H2SO4 preserved	H	NA		3.8	Y	Absent		TOC-5310(28)
L2249449-15E	Vial H2SO4 preserved	H	NA		3.8	Y	Absent		TOC-5310(28)
L2249449-15F	Vial H2SO4 preserved	H	NA		3.8	Y	Absent		TOC-5310(28)
L2249449-15G	Amber 120ml unpreserved	H	7	7	3.8	Y	Absent		NYTCL-8081(7)
L2249449-15H	Amber 120ml unpreserved	H	7	7	3.8	Y	Absent		NYTCL-8081(7)
L2249449-15I	Plastic 250ml HNO3 preserved	H	<2	<2	3.8	Y	Absent		FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2249449-15J	Amber 250ml unpreserved	H	7	7	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-15K	Amber 250ml unpreserved	H	7	7	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-15L	Amber 250ml unpreserved	H	7	7	3.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-15M	Amber 250ml unpreserved	H	7	7	3.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-15N	Plastic 500ml unpreserved	H	7	7	3.8	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-15O	Plastic 950ml unpreserved	H	7	7	3.8	Y	Absent		TSS-2540(7)
L2249449-15P	Amber 1000ml unpreserved	H	7	7	3.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-15Q	Amber 1000ml unpreserved	H	7	7	3.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-16A	Vial HCl preserved	H	NA		3.8	Y	Absent		NYTCL-8260(14)
L2249449-16B	Vial HCl preserved	H	NA		3.8	Y	Absent		NYTCL-8260(14)
L2249449-16C	Vial HCl preserved	H	NA		3.8	Y	Absent		NYTCL-8260(14)
L2249449-16D	Vial H2SO4 preserved	H	NA		3.8	Y	Absent		TOC-5310(28)
L2249449-16E	Vial H2SO4 preserved	H	NA		3.8	Y	Absent		TOC-5310(28)
L2249449-16F	Vial H2SO4 preserved	H	NA		3.8	Y	Absent		TOC-5310(28)
L2249449-16G	Amber 120ml unpreserved	H	7	7	3.8	Y	Absent		NYTCL-8081(7)
L2249449-16H	Amber 120ml unpreserved	H	7	7	3.8	Y	Absent		NYTCL-8081(7)
L2249449-16I	Plastic 250ml HNO3 preserved	H	<2	<2	3.8	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),AS-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180)
L2249449-16J	Amber 250ml unpreserved	H	7	7	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-16K	Amber 250ml unpreserved	H	7	7	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-16L	Amber 250ml unpreserved	H	7	7	3.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-16M	Amber 250ml unpreserved	H	7	7	3.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-16N	Plastic 500ml unpreserved	H	7	7	3.8	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-16O	Plastic 950ml unpreserved	H	7	7	3.8	Y	Absent		TSS-2540(7)
L2249449-16P	Amber 1000ml unpreserved	H	7	7	3.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-16Q	Amber 1000ml unpreserved	H	7	7	3.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-17A	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2249449-17B	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2249449-17C	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2249449-17D	Vial H2SO4 preserved	B	NA		3.4	Y	Absent		TOC-5310(28)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-17E	Vial H2SO4 preserved	B	NA		3.4	Y	Absent		TOC-5310(28)
L2249449-17F	Vial H2SO4 preserved	B	NA		3.4	Y	Absent		TOC-5310(28)
L2249449-17G	Amber 120ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8081(7)
L2249449-17H	Amber 120ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8081(7)
L2249449-17I	Plastic 250ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2249449-17J	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-17K	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-17L	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-17M	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-17N	Plastic 500ml unpreserved	B	7	7	3.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-17O	Plastic 950ml unpreserved	B	7	7	3.4	Y	Absent		TSS-2540(7)
L2249449-17P	Amber 1000ml unpreserved	B	7	7	3.4	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-17Q	Amber 1000ml unpreserved	B	7	7	3.4	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-18A	Vial HCl preserved	L	NA		3.1	Y	Absent		NYTCL-8260(14)
L2249449-18B	Vial HCl preserved	L	NA		3.1	Y	Absent		NYTCL-8260(14)
L2249449-18C	Vial HCl preserved	L	NA		3.1	Y	Absent		NYTCL-8260(14)
L2249449-18D	Vial H2SO4 preserved	L	NA		3.1	Y	Absent		TOC-5310(28)
L2249449-18E	Vial H2SO4 preserved	L	NA		3.1	Y	Absent		TOC-5310(28)
L2249449-18F	Vial H2SO4 preserved	L	NA		3.1	Y	Absent		TOC-5310(28)
L2249449-18G	Amber 120ml unpreserved	L	7	7	3.1	Y	Absent		NYTCL-8081(7)
L2249449-18H	Amber 120ml unpreserved	L	7	7	3.1	Y	Absent		NYTCL-8081(7)
L2249449-18I	Plastic 250ml HNO3 preserved	L	<2	<2	3.1	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180)
L2249449-18J	Amber 250ml unpreserved	L	7	7	3.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-18K	Amber 250ml unpreserved	L	7	7	3.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-18L	Amber 250ml unpreserved	L	7	7	3.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-18M	Amber 250ml unpreserved	L	7	7	3.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-18N	Plastic 500ml unpreserved	L	7	7	3.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-18O	Plastic 950ml unpreserved	L	7	7	3.1	Y	Absent		TSS-2540(7)
L2249449-18P	Amber 1000ml unpreserved	L	7	7	3.1	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-18Q	Amber 1000ml unpreserved	L	7	7	3.1	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-19A	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2249449-19B	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2249449-19C	Vial HCl preserved	B	NA		3.4	Y	Absent		NYTCL-8260(14)
L2249449-19D	Vial H2SO4 preserved	B	NA		3.4	Y	Absent		TOC-5310(28)
L2249449-19E	Vial H2SO4 preserved	B	NA		3.4	Y	Absent		TOC-5310(28)
L2249449-19F	Vial H2SO4 preserved	B	NA		3.4	Y	Absent		TOC-5310(28)
L2249449-19G	Amber 120ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8081(7)
L2249449-19H	Amber 120ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8081(7)
L2249449-19I	Plastic 250ml HNO3 preserved	B	<2	<2	3.4	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180)
L2249449-19J	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-19K	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-19L	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-19M	Amber 250ml unpreserved	B	7	7	3.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-19N	Plastic 500ml unpreserved	B	7	7	3.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-19O	Plastic 950ml unpreserved	B	7	7	3.4	Y	Absent		TSS-2540(7)
L2249449-19P	Amber 1000ml unpreserved	B	7	7	3.4	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-19Q	Amber 1000ml unpreserved	B	7	7	3.4	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-20A	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)
L2249449-20B	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249449**Project Number:** 24711.001**Report Date:** 10/04/22**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-20C	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)
L2249449-20D	Vial H2SO4 preserved	C	NA		4.4	Y	Absent		TOC-5310(28)
L2249449-20E	Vial H2SO4 preserved	C	NA		4.4	Y	Absent		TOC-5310(28)
L2249449-20F	Vial H2SO4 preserved	C	NA		4.4	Y	Absent		TOC-5310(28)
L2249449-20G	Amber 120ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8081(7)
L2249449-20H	Amber 120ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8081(7)
L2249449-20I	Plastic 250ml HNO3 preserved	C	<2	<2	4.4	Y	Absent		SE-6020T(180),TL-6020T(180),FE-6020T(180),BA-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180)
L2249449-20J	Amber 250ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-20K	Amber 250ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-20L	Amber 250ml unpreserved	C	7	7	4.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-20M	Amber 250ml unpreserved	C	7	7	4.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-20N	Plastic 500ml unpreserved	C	7	7	4.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-20O	Plastic 950ml unpreserved	C	7	7	4.4	Y	Absent		TSS-2540(7)
L2249449-20P	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-20Q	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-21A	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)
L2249449-21B	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)
L2249449-21C	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)
L2249449-21D	Vial H2SO4 preserved	C	NA		4.4	Y	Absent		TOC-5310(28)
L2249449-21E	Vial H2SO4 preserved	C	NA		4.4	Y	Absent		TOC-5310(28)
L2249449-21F	Vial H2SO4 preserved	C	NA		4.4	Y	Absent		TOC-5310(28)
L2249449-21G	Amber 120ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8081(7)
L2249449-21H	Amber 120ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8081(7)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-21I	Plastic 250ml HNO3 preserved	C	<2	<2	4.4	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28)
L2249449-21J	Amber 250ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-21K	Amber 250ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-21L	Amber 250ml unpreserved	C	7	7	4.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-21M	Amber 250ml unpreserved	C	7	7	4.4	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-21N	Plastic 500ml unpreserved	C	7	7	4.4	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249449-21O	Plastic 950ml unpreserved	C	7	7	4.4	Y	Absent		TSS-2540(7)
L2249449-21P	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-21Q	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-22A	Vial HCl preserved	L	NA		3.1	Y	Absent		NYTCL-8260(14)
L2249449-22B	Vial HCl preserved	L	NA		3.1	Y	Absent		NYTCL-8260(14)
L2249449-22C	Vial HCl preserved	L	NA		3.1	Y	Absent		NYTCL-8260(14)
L2249449-22D	Vial H2SO4 preserved	L	NA		3.1	Y	Absent		TOC-5310(28)
L2249449-22E	Vial H2SO4 preserved	L	NA		3.1	Y	Absent		TOC-5310(28)
L2249449-22F	Vial H2SO4 preserved	L	NA		3.1	Y	Absent		TOC-5310(28)
L2249449-22G	Amber 120ml unpreserved	L	7	7	3.1	Y	Absent		NYTCL-8081(7)
L2249449-22H	Amber 120ml unpreserved	L	7	7	3.1	Y	Absent		NYTCL-8081(7)
L2249449-22I	Plastic 250ml HNO3 preserved	L	<2	<2	3.1	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L2249449-22J	Amber 250ml unpreserved	L	7	7	3.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-22K	Amber 250ml unpreserved	L	7	7	3.1	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249449-22L	Amber 250ml unpreserved	L	7	7	3.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-22M	Amber 250ml unpreserved	L	7	7	3.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249449-22N	Plastic 500ml unpreserved	L	7	7	3.1	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249449-22O	Plastic 950ml unpreserved	L	7	7	3.1	Y	Absent		TSS-2540(7)
L2249449-22P	Amber 1000ml unpreserved	L	7	7	3.1	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249449-22Q	Amber 1000ml unpreserved	L	7	7	3.1	Y	Absent		A2-PCBCONG-8270-NOAA(7)

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GLOSSARY

Acronyms

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

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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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Data Qualifiers

Identified Compounds (TICs).

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

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 105 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997 in conjunction with NOAA Technical Memorandum NMFS-NWFSC-59: Extraction, Cleanup and GC/MS Analysis of Sediments and Tissues for Organic Contaminants, March 2004 and the Determination of Pesticides and PCBs in Water and Oil/Sediment by GC/MS: Method 680, EPA 01A0005295, November 1985.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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, SM4500CI-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, **LCHAT 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.

 ALPHA ANALYTICAL Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW JERSEY CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 3	Date Rec'd In Lab 9/12/22	ALPHA Job # L2249449									
		Project Information Project Name: HUDSON RIVER WATER STUDY Project Location: CHELSEA, NY Project # _____ (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO# _____								
Client Information Client: Normandeau Address: _____ Phone: 603-319-5013 Fax: 603-334-6397 Email: mtaylor@normandeau.com		Project Manager: Mike Taylor ALPHAQuote #: 19745 Turn-Around Time Standard <input type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other		Site Information Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product: _____								
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)										
For EPH, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2		For VOC, selection is REQUIRED: <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011		Other project specific requirements/comments: Please specify Metals or TAL.										
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials									
		Date	Time											
49449-01	INTAKE PUMP SAMPLES	9/9/22	0700	W	KS	2	1	1	2	2	3	3	1	2
-02	1ST PRE-TRIAL	9/9/22	0730	W	KS	2	1	1	2	2	3	3	1	2
-03	2ND PRE-TRIAL	9/9/22	0800	W	KS	2	1	1	2	2	3	3	1	2
-04	3RD PRE-TRIAL	9/9/22	0830	W	KS	2	1	1	2	2	3	3	1	2
-05	4TH PRE-TRIAL	9/9/22	0920	W	KS	2	1	1	2	2	3	3	1	2
-06	IP-0 HR -TRIAL	9/9/22	0950	W	KS	2	1	1	2	2	3	3	1	2
-07	IP-30 MIN -TRIAL	9/9/22	1020	W	KS	2	1	1	2	2	3	3	1	2
-08	IP-1 HR -TRIAL	9/9/22	1050	W	KS	2	1	1	2	2	3	3	1	2
-09	IP-2 HR -TRIAL	9/9/22	1120	W	KS	2	1	1	2	2	3	3	1	2
-10	IP-30 MIN TRIAL	9/9/22	1220	W	KS	2	1	1	2	2	3	3	1	2

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


Relinquished By:	Date/Time	Received By:	Date/Time
Tom Dine	9/12/22 1255	Paul Maggella	9/12/22 1305
Paul Maggella	9/12/22 1505	Paul Maggella	9/12/22 1605
Paul Maggella	9/12/22 2200	Paul Maggella	9/12/22 2200

(1) PCB CONCENTRATIONS - EPA METHOD 1631

	NEW JERSEY CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 2 of 3	Date Rec'd in Lab 9/12/22	ALPHA Job # L2249449										
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288													
Project Information Project Name: HUDSON RIVER WATER STUDY Project Location: HELSEA, NY			Deliverables <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other												
Client Information Client: Normandean Address: Phone: 603-319-5013 Fax: 603-334-6397 Email: mtaylor@normandean.com			Billing Information <input type="checkbox"/> Same as Client Info PO #												
Project # (Use Project name as Project #) <input type="checkbox"/>			Regulatory Requirement <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other												
Project Manager: Mike Taylor ALPHAQuote #: 19745			Site Information Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product:												
Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:															
These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS												
For EPH, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2	For VOC, selection is REQUIRED: <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011	Other project specific requirements/comments: Please specify Metals or TAL.	<table border="1" style="width:100%; font-size: x-small;"> <tr> <td style="width:5%;">PCB-002-Low</td> <td style="width:5%;">S04 CL F</td> <td style="width:5%;">TSS 2540</td> <td style="width:5%;">2705 m LV 1 N</td> <td style="width:5%;">17028</td> <td style="width:5%;">HSE-004</td> <td style="width:5%;">MS-0260</td> <td style="width:5%;">TOL</td> <td style="width:5%;">TOTAL TOXIN METALS</td> <td style="width:5%;">AZ-14-DIOXANES-PP2</td> </tr> </table>			PCB-002-Low	S04 CL F	TSS 2540	2705 m LV 1 N	17028	HSE-004	MS-0260	TOL	TOTAL TOXIN METALS	AZ-14-DIOXANES-PP2
PCB-002-Low	S04 CL F	TSS 2540	2705 m LV 1 N	17028	HSE-004	MS-0260	TOL	TOTAL TOXIN METALS	AZ-14-DIOXANES-PP2						
ALPHA Lab ID (Lab Use Only)			Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)												
Sample ID INTAKE PUMP SAMPLES			Collection Date Time Sample Matrix Sampler's Initials												
49449-11 IP-3HR TRIAL 9/9/22 1250 W KS			2 1 1 2 2 33 1 2												
-12 IP-3HR 30min TRIAL 9/9/22 1200 W KS			2 1 1 2 2 33 1 2												
-13 IP-4HR TRIAL 9/9/22 1420 W KS			2 1 1 2 2 33 1 2												
-14 IP-4HR 30min TRIAL 9/9/22 1435 W KS			2 1 1 2 2 33 1 2												
-15 IP-5HR TRIAL 9/9/22 1455 W KS			2 1 1 2 2 33 1 2												
-16 IP-5HR 30min TRIAL 9/9/22 1530 W KS			2 1 1 2 2 33 1 2												
-17 IP-6HR TRIAL 9/9/22 1600 W KS			2 1 1 2 2 33 1 2												
-18 IP-6HR 30min TRIAL 9/9/22 1630 W KS			2 1 1 2 2 33 1 2												
-19 IP-30min Post Trial 9/9/22 1735 W KS			2 1 1 2 2 33 1 2												
-20 IP-1HR-30min Post Trial 9/9/22 1805 W KS			2 1 1 2 2 33 1 2												
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other			Container Type A P P A A V V P A												
Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle			Preservative N N N N N B D C N												
Westboro: Certification No: MA935 Mansfield: Certification No: MA015			Relinquished By: Date/Time Received By: Date/Time												
[Signature] 9/12/22 1255 [Signature] 9/12/22 1305			[Signature] 9/12/22 1505 [Signature] 9/12/22 1605												
[Signature] 9/12/22			[Signature] 9/12/22												

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

PCB CONCENTRATIONS - FDA 8270.D / N/A

 NEW JERSEY CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 3 of 3	Date Rec'd in Lab 9/12/22	ALPHA Job # 2249449				
		Project Information Project Name: HUDSON 7 RIVER WATER STUDY Project Location: CHELDRA, NY		Deliverables <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #			
Client Information Client: NOEMANDEAU Address: Phone: 603-319-5013 Fax: 603-834-6397 Email: MTAYLOR@NOEMANDEAU.COM		Project # (Use Project name as Project #) <input type="checkbox"/> Project Manager: MIKE TAYLOR ALPHAQuote #: 19745		Regulatory Requirement <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other		Site Information Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product:			
Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
For EPH, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2		For VOC, selection is REQUIRED: <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011						Other project specific requirements/comments: Please specify Metals or TAL.	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix Sampler's Initials			
49449-21 -22		P-1 HR 30 MIN POST TRIAL P-2 HR POST TRIAL		9/9/22 1835 W KS 9/9/22 1905 W KS					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative			
Form No: 01-14 HC (rev. 30-Sept-2013)		Relinquished By: Paul Mazzeola		Date/Time: 9/12/22 1505		Received By: Paul Mazzeola		Date/Time: 9/12/22 1600	

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ANALYTICAL REPORT

Lab Number:	L2249477
Client:	Normandeau Associates, Inc. 600 Beach Road West Haverstraw, NY 10993
ATTN:	Mike Taylor
Phone:	(603) 637-1193
Project Name:	HUDSON 7 RIVER WATER STUDY
Project Number:	24711.001
Report Date:	10/11/22

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: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2249477-01	1/4 MILE UPSTREAM	WATER	CHELSEA, NY	09/09/22 08:15	09/12/22
L2249477-02	1/8 MILE UPSTREAM	WATER	CHELSEA, NY	09/09/22 12:10	09/12/22
L2249477-03	NEAREST INTAKE	WATER	CHELSEA, NY	09/09/22 14:14	09/12/22
L2249477-04	1/8 MILE DOWNSTREAM	WATER	CHELSEA, NY	09/09/22 15:00	09/12/22
L2249477-05	1/4 MILE DOWNSTREAM	WATER	CHELSEA, NY	09/09/22 17:08	09/12/22

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

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: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Case Narrative (continued)

Report Revision

October 11, 2022: The project name and location have been revised.

Report Submission

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

Chloride

The WG1693158-4 MS recovery, performed on L2249477-01, is outside the acceptance criteria for chloride (50%); however, the associated LCS recovery is within criteria. No further action was taken.

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

Authorized Signature:

 Elizabeth Porta

Title: Technical Director/Representative

Date: 10/11/22

ORGANICS

VOLATILES

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 22:36
 Analyst: LAC

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	110		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 22:59
 Analyst: LAC

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	113		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 23:22
 Analyst: LAC

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	110		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/20/22 23:46
 Analyst: LAC

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	112		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/21/22 00:09
 Analyst: LAC

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	110		70-130

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/22 20:23
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1690335-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/22 20:23
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1690335-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/20/22 20:23
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1690335-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1690335-3 WG1690335-4								
Methylene chloride	98		100		70-130	2		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	150		150		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	99		98		70-130	1		20
1,1-Dichloropropene	97		100		70-130	3		20
Bromoform	91		94		54-136	3		20
1,1,2,2-Tetrachloroethane	95		98		67-130	3		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	97		100		70-130	3		20
Chloromethane	100		100		64-130	0		20
Bromomethane	110		120		39-139	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1690335-3 WG1690335-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	180	Q	180	Q	55-138	0		20
1,1-Dichloroethene	100		98		61-145	2		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	98		100		70-130	2		20
1,2-Dichlorobenzene	99		100		70-130	1		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	96		98		70-130	2		20
Methyl tert butyl ether	91		91		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	88		95		64-130	8		20
Acrylonitrile	100		100		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	100		120		58-148	18		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	110		100		63-138	10		20
Vinyl acetate	84		83		70-130	1		20
4-Methyl-2-pentanone	86		89		59-130	3		20
2-Hexanone	84		90		57-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1690335-3 WG1690335-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	96		96		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	96		98		70-130	2		20
n-Butylbenzene	97		100		53-136	3		20
sec-Butylbenzene	97		100		70-130	3		20
tert-Butylbenzene	93		98		70-130	5		20
o-Chlorotoluene	95		96		70-130	1		20
p-Chlorotoluene	91		92		70-130	1		20
1,2-Dibromo-3-chloropropane	97		100		41-144	3		20
Hexachlorobutadiene	96		99		63-130	3		20
Isopropylbenzene	93		97		70-130	4		20
p-Isopropyltoluene	95		98		70-130	3		20
Naphthalene	93		97		70-130	4		20
n-Propylbenzene	96		98		69-130	2		20
1,2,3-Trichlorobenzene	96		100		70-130	4		20
1,2,4-Trichlorobenzene	94		99		70-130	5		20
1,3,5-Trimethylbenzene	93		94		64-130	1		20
1,2,4-Trimethylbenzene	93		95		70-130	2		20
1,4-Dioxane	142		136		56-162	4		20
p-Diethylbenzene	92		95		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1690335-3 WG1690335-4								
p-Ethyltoluene	93		96		70-130	3		20
1,2,4,5-Tetramethylbenzene	88		90		70-130	2		20
Ethyl ether	160	Q	160	Q	59-134	0		20
trans-1,4-Dichloro-2-butene	94		97		70-130	3		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	106		108		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	92		92		70-130
Dibromofluoromethane	107		105		70-130

SEMIVOLATILES

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/16/22 16:48
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	29		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	34		23-120
2-Fluorobiphenyl	38		15-120
2,4,6-Tribromophenol	38		10-120
4-Terphenyl-d14	43		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 18:16
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:05

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	39		15-120
2,4,6-Tribromophenol	38		10-120
4-Terphenyl-d14	45		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 15:34
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.134	0.0303	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			57		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/27/22 03:51
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.0	J	ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	20	Q	21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	26		23-120
2-Fluorobiphenyl	28		15-120
2,4,6-Tribromophenol	28		10-120
4-Terphenyl-d14	33	Q	41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 18:32
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	12	Q	21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	27		23-120
2-Fluorobiphenyl	24		15-120
2,4,6-Tribromophenol	16		10-120
4-Terphenyl-d14	31	Q	41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 15:53
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	58		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/16/22 17:33
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.4	J	ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	34		23-120
2-Fluorobiphenyl	37		15-120
2,4,6-Tribromophenol	38		10-120
4-Terphenyl-d14	41		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/21/22 18:48
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	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	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	38		15-120
2,4,6-Tribromophenol	35		10-120
4-Terphenyl-d14	42		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 16:12
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	49		15-110

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/16/22 17:56
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	23		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	28		23-120
2-Fluorobiphenyl	32		15-120
2,4,6-Tribromophenol	29		10-120
4-Terphenyl-d14	35	Q	41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/22/22 10:54
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	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	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.04	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.06	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.07	J	ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	17	Q	21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	34		23-120
2-Fluorobiphenyl	30		15-120
2,4,6-Tribromophenol	20		10-120
4-Terphenyl-d14	32	Q	41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 16:31
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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1,4 Dioxane by 8270E-SIM - Mansfield Lab						
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1,4-Dioxane	ND		ug/l	0.139	0.0314	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
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1,4-Dioxane-d8	56		15-110
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Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 09/27/22 04:14
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - 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
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	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
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	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	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	21		21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	25		23-120
2-Fluorobiphenyl	27		15-120
2,4,6-Tribromophenol	22		10-120
4-Terphenyl-d14	30	Q	41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 09/20/22 14:08
 Analyst: RP

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 16:05

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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	14	Q	21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	25		23-120
2-Fluorobiphenyl	27		15-120
2,4,6-Tribromophenol	14		10-120
4-Terphenyl-d14	33	Q	41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E-SIM
 Analytical Date: 09/16/22 16:51
 Analyst: DMB

Extraction Method: EPA 3510C
 Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0314	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			58		15-110	

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/15/22 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1687634-1					
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
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
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	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
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

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/15/22 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1687634-1					
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
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	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
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	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 09/15/22 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1687634-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	83		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/15/22 14:55
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1687636-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	0.02	J	ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	0.02	J	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	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/15/22 14:55
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 05:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1687636-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	84		41-149

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 09/16/22 13:57
Analyst: DMB

Extraction Method: EPA 3510C
Extraction Date: 09/15/22 20:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01-05 Batch: WG1688037-1					
1,4-Dioxane	ND		ug/l	0.150	0.0339

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	68		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1687634-2 WG1687634-3								
Acenaphthene	72		65		37-111	10		30
1,2,4-Trichlorobenzene	76		65		39-98	16		30
Hexachlorobenzene	77		71		40-140	8		30
Bis(2-chloroethyl)ether	66		58		40-140	13		30
2-Chloronaphthalene	73		64		40-140	13		30
1,2-Dichlorobenzene	67		60		40-140	11		30
1,3-Dichlorobenzene	67		60		40-140	11		30
1,4-Dichlorobenzene	69		61		36-97	12		30
3,3'-Dichlorobenzidine	63		61		40-140	3		30
2,4-Dinitrotoluene	70		64		48-143	9		30
2,6-Dinitrotoluene	68		65		40-140	5		30
Fluoranthene	71		67		40-140	6		30
4-Chlorophenyl phenyl ether	78		74		40-140	5		30
4-Bromophenyl phenyl ether	80		75		40-140	6		30
Bis(2-chloroisopropyl)ether	63		56		40-140	12		30
Bis(2-chloroethoxy)methane	70		63		40-140	11		30
Hexachlorobutadiene	78		70		40-140	11		30
Hexachlorocyclopentadiene	78		71		40-140	9		30
Hexachloroethane	69		61		40-140	12		30
Isophorone	66		60		40-140	10		30
Naphthalene	68		60		40-140	13		30
Nitrobenzene	70		62		40-140	12		30
NDPA/DPA	75		71		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1687634-2 WG1687634-3								
n-Nitrosodi-n-propylamine	68		61		29-132	11		30
Bis(2-ethylhexyl)phthalate	80		77		40-140	4		30
Butyl benzyl phthalate	79		73		40-140	8		30
Di-n-butylphthalate	75		69		40-140	8		30
Di-n-octylphthalate	82		77		40-140	6		30
Diethyl phthalate	75		70		40-140	7		30
Dimethyl phthalate	72		66		40-140	9		30
Benzo(a)anthracene	77		72		40-140	7		30
Benzo(a)pyrene	80		75		40-140	6		30
Benzo(b)fluoranthene	78		75		40-140	4		30
Benzo(k)fluoranthene	76		73		40-140	4		30
Chrysene	74		70		40-140	6		30
Acenaphthylene	72		66		45-123	9		30
Anthracene	70		67		40-140	4		30
Benzo(ghi)perylene	68		61		40-140	11		30
Fluorene	73		68		40-140	7		30
Phenanthrene	67		63		40-140	6		30
Dibenzo(a,h)anthracene	71		66		40-140	7		30
Indeno(1,2,3-cd)pyrene	76		70		40-140	8		30
Pyrene	72		67		26-127	7		30
Biphenyl	76		69		40-140	10		30
4-Chloroaniline	68		63		40-140	8		30
2-Nitroaniline	64		60		52-143	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1687634-2 WG1687634-3								
3-Nitroaniline	68		62		25-145	9		30
4-Nitroaniline	66		62		51-143	6		30
Dibenzofuran	72		68		40-140	6		30
2-Methylnaphthalene	75		67		40-140	11		30
1,2,4,5-Tetrachlorobenzene	84		75		2-134	11		30
Acetophenone	72		64		39-129	12		30
2,4,6-Trichlorophenol	78		72		30-130	8		30
p-Chloro-m-cresol	70		66		23-97	6		30
2-Chlorophenol	66		60		27-123	10		30
2,4-Dichlorophenol	79		71		30-130	11		30
2,4-Dimethylphenol	69		63		30-130	9		30
2-Nitrophenol	72		63		30-130	13		30
4-Nitrophenol	50		44		10-80	13		30
2,4-Dinitrophenol	74		51		20-130	37	Q	30
4,6-Dinitro-o-cresol	72		64		20-164	12		30
Pentachlorophenol	80		71		9-103	12		30
Phenol	40		37		12-110	8		30
2-Methylphenol	62		56		30-130	10		30
3-Methylphenol/4-Methylphenol	59		54		30-130	9		30
2,4,5-Trichlorophenol	78		74		30-130	5		30
Benzoic Acid	65		41		10-164	45	Q	30
Benzyl Alcohol	70		60		26-116	15		30
Carbazole	71		66		55-144	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1687634-2 WG1687634-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	54		45		21-120
Phenol-d6	40		37		10-120
Nitrobenzene-d5	69		59		23-120
2-Fluorobiphenyl	72		67		15-120
2,4,6-Tribromophenol	82		76		10-120
4-Terphenyl-d14	79		72		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1687636-2 WG1687636-3								
Acenaphthene	59		76		40-140	25		40
2-Chloronaphthalene	50		68		40-140	31		40
Fluoranthene	59		75		40-140	24		40
Hexachlorobutadiene	47		65		40-140	32		40
Naphthalene	53		73		40-140	32		40
Benzo(a)anthracene	62		77		40-140	22		40
Benzo(a)pyrene	54		67		40-140	21		40
Benzo(b)fluoranthene	60		74		40-140	21		40
Benzo(k)fluoranthene	59		77		40-140	26		40
Chrysene	62		76		40-140	20		40
Acenaphthylene	50		66		40-140	28		40
Anthracene	58		73		40-140	23		40
Benzo(ghi)perylene	64		78		40-140	20		40
Fluorene	61		77		40-140	23		40
Phenanthrene	58		73		40-140	23		40
Dibenzo(a,h)anthracene	65		80		40-140	21		40
Indeno(1,2,3-cd)pyrene	67		82		40-140	20		40
Pyrene	61		76		40-140	22		40
2-Methylnaphthalene	55		74		40-140	29		40
Pentachlorophenol	60		66		40-140	10		40
Hexachlorobenzene	61		76		40-140	22		40
Hexachloroethane	42		59		40-140	34		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1687636-2 WG1687636-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	40		57		21-120
Phenol-d6	34		47		10-120
Nitrobenzene-d5	58		81		23-120
2-Fluorobiphenyl	53		69		15-120
2,4,6-Tribromophenol	78		92		10-120
4-Terphenyl-d14	61		74		41-149

Lab Control Sample Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01-05 Batch: WG1688037-2 WG1688037-3								
1,4-Dioxane	107		107		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	57		62		15-110

PCBS

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 18:21
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.980	0.490	1
CI3-BZ#18	1.95		ng/l	0.980	0.490	1
CI3-BZ#28	1.64		ng/l	0.980	0.490	1
CI4-BZ#44	ND		ng/l	0.980	0.490	1
CI4-BZ#49	0.924	J	ng/l	0.980	0.490	1
CI4-BZ#52	0.929	J	ng/l	0.980	0.490	1
CI4-BZ#66	ND		ng/l	0.980	0.490	1
CI5-BZ#87	ND		ng/l	0.980	0.490	1
CI5-BZ#101	ND		ng/l	0.980	0.490	1
CI5-BZ#105	ND		ng/l	0.980	0.490	1
CI5-BZ#118	ND		ng/l	0.980	0.490	1
CI6-BZ#128	ND		ng/l	0.980	0.490	1
CI6-BZ#138	ND		ng/l	0.980	0.490	1
CI6-BZ#153	ND		ng/l	0.980	0.490	1
CI7-BZ#170	ND		ng/l	0.980	0.490	1
CI7-BZ#180	ND		ng/l	0.980	0.490	1
CI7-BZ#183	ND		ng/l	0.980	0.490	1
CI7-BZ#184	ND		ng/l	0.980	0.490	1
CI7-BZ#187	ND		ng/l	0.980	0.490	1
CI8-BZ#195	ND		ng/l	0.980	0.490	1
CI9-BZ#206	ND		ng/l	0.980	0.490	1
CI10-BZ#209	ND		ng/l	0.980	0.490	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	78		50-125
BZ 198	93		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 18:49
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.990	0.495	1
CI3-BZ#18	2.32		ng/l	0.990	0.495	1
CI3-BZ#28	2.13		ng/l	0.990	0.495	1
CI4-BZ#44	ND		ng/l	0.990	0.495	1
CI4-BZ#49	1.01		ng/l	0.990	0.495	1
CI4-BZ#52	1.03		ng/l	0.990	0.495	1
CI4-BZ#66	ND		ng/l	0.990	0.495	1
CI5-BZ#87	ND		ng/l	0.990	0.495	1
CI5-BZ#101	ND		ng/l	0.990	0.495	1
CI5-BZ#105	ND		ng/l	0.990	0.495	1
CI5-BZ#118	ND		ng/l	0.990	0.495	1
CI6-BZ#128	ND		ng/l	0.990	0.495	1
CI6-BZ#138	ND		ng/l	0.990	0.495	1
CI6-BZ#153	ND		ng/l	0.990	0.495	1
CI7-BZ#170	ND		ng/l	0.990	0.495	1
CI7-BZ#180	ND		ng/l	0.990	0.495	1
CI7-BZ#183	ND		ng/l	0.990	0.495	1
CI7-BZ#184	ND		ng/l	0.990	0.495	1
CI7-BZ#187	ND		ng/l	0.990	0.495	1
CI8-BZ#195	ND		ng/l	0.990	0.495	1
CI9-BZ#206	ND		ng/l	0.990	0.495	1
CI10-BZ#209	ND		ng/l	0.990	0.495	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	83		50-125
BZ 198	89		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 19:17
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.990	0.495	1
CI3-BZ#18	1.76		ng/l	0.990	0.495	1
CI3-BZ#28	1.82		ng/l	0.990	0.495	1
CI4-BZ#44	ND		ng/l	0.990	0.495	1
CI4-BZ#49	0.848	J	ng/l	0.990	0.495	1
CI4-BZ#52	0.864	J	ng/l	0.990	0.495	1
CI4-BZ#66	ND		ng/l	0.990	0.495	1
CI5-BZ#87	ND		ng/l	0.990	0.495	1
CI5-BZ#101	ND		ng/l	0.990	0.495	1
CI5-BZ#105	ND		ng/l	0.990	0.495	1
CI5-BZ#118	ND		ng/l	0.990	0.495	1
CI6-BZ#128	ND		ng/l	0.990	0.495	1
CI6-BZ#138	ND		ng/l	0.990	0.495	1
CI6-BZ#153	ND		ng/l	0.990	0.495	1
CI7-BZ#170	ND		ng/l	0.990	0.495	1
CI7-BZ#180	ND		ng/l	0.990	0.495	1
CI7-BZ#183	ND		ng/l	0.990	0.495	1
CI7-BZ#184	ND		ng/l	0.990	0.495	1
CI7-BZ#187	ND		ng/l	0.990	0.495	1
CI8-BZ#195	ND		ng/l	0.990	0.495	1
CI9-BZ#206	ND		ng/l	0.990	0.495	1
CI10-BZ#209	ND		ng/l	0.990	0.495	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	77		50-125
BZ 198	97		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/28/22 19:44
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ng/l	0.980	0.490	1
CI3-BZ#18	1.43		ng/l	0.980	0.490	1
CI3-BZ#28	1.16		ng/l	0.980	0.490	1
CI4-BZ#44	ND		ng/l	0.980	0.490	1
CI4-BZ#49	0.607	J	ng/l	0.980	0.490	1
CI4-BZ#52	0.635	J	ng/l	0.980	0.490	1
CI4-BZ#66	ND		ng/l	0.980	0.490	1
CI5-BZ#87	ND		ng/l	0.980	0.490	1
CI5-BZ#101	ND		ng/l	0.980	0.490	1
CI5-BZ#105	ND		ng/l	0.980	0.490	1
CI5-BZ#118	ND		ng/l	0.980	0.490	1
CI6-BZ#128	ND		ng/l	0.980	0.490	1
CI6-BZ#138	ND		ng/l	0.980	0.490	1
CI6-BZ#153	ND		ng/l	0.980	0.490	1
CI7-BZ#170	ND		ng/l	0.980	0.490	1
CI7-BZ#180	ND		ng/l	0.980	0.490	1
CI7-BZ#183	ND		ng/l	0.980	0.490	1
CI7-BZ#184	ND		ng/l	0.980	0.490	1
CI7-BZ#187	ND		ng/l	0.980	0.490	1
CI8-BZ#195	ND		ng/l	0.980	0.490	1
CI9-BZ#206	ND		ng/l	0.980	0.490	1
CI10-BZ#209	ND		ng/l	0.980	0.490	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	76		50-125
BZ 198	94		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 105,8270D-SIM/680(M)
 Analytical Date: 09/29/22 15:17
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	0.532	J	ng/l	0.980	0.490	1
CI3-BZ#18	3.61		ng/l	0.980	0.490	1
CI3-BZ#28	2.99		ng/l	0.980	0.490	1
CI4-BZ#44	ND		ng/l	0.980	0.490	1
CI4-BZ#49	1.48		ng/l	0.980	0.490	1
CI4-BZ#52	1.66		ng/l	0.980	0.490	1
CI4-BZ#66	ND		ng/l	0.980	0.490	1
CI5-BZ#87	ND		ng/l	0.980	0.490	1
CI5-BZ#101	ND		ng/l	0.980	0.490	1
CI5-BZ#105	ND		ng/l	0.980	0.490	1
CI5-BZ#118	ND		ng/l	0.980	0.490	1
CI6-BZ#128	ND		ng/l	0.980	0.490	1
CI6-BZ#138	ND		ng/l	0.980	0.490	1
CI6-BZ#153	ND		ng/l	0.980	0.490	1
CI7-BZ#170	ND		ng/l	0.980	0.490	1
CI7-BZ#180	ND		ng/l	0.980	0.490	1
CI7-BZ#183	ND		ng/l	0.980	0.490	1
CI7-BZ#184	ND		ng/l	0.980	0.490	1
CI7-BZ#187	ND		ng/l	0.980	0.490	1
CI8-BZ#195	ND		ng/l	0.980	0.490	1
CI9-BZ#206	ND		ng/l	0.980	0.490	1
CI10-BZ#209	ND		ng/l	0.980	0.490	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	82		50-125
BZ 198	91		50-125

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 105,8270D-SIM/680(M)
Analytical Date: 09/28/22 11:50
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 16:20

Parameter	Result	Qualifier	Units	RL	MDL
PCB Congeners (NOAA List) - Mansfield Lab for sample(s): 01-05 Batch: WG1688460-1					
CI2-BZ#8	ND		ng/l	1.00	0.500
CI3-BZ#18	ND		ng/l	1.00	0.500
CI3-BZ#28	ND		ng/l	1.00	0.500
CI4-BZ#44	ND		ng/l	1.00	0.500
CI4-BZ#49	ND		ng/l	1.00	0.500
CI4-BZ#52	ND		ng/l	1.00	0.500
CI4-BZ#66	ND		ng/l	1.00	0.500
CI5-BZ#87	ND		ng/l	1.00	0.500
CI5-BZ#101	ND		ng/l	1.00	0.500
CI5-BZ#105	ND		ng/l	1.00	0.500
CI5-BZ#118	ND		ng/l	1.00	0.500
CI6-BZ#128	ND		ng/l	1.00	0.500
CI6-BZ#138	ND		ng/l	1.00	0.500
CI6-BZ#153	ND		ng/l	1.00	0.500
CI7-BZ#170	ND		ng/l	1.00	0.500
CI7-BZ#180	ND		ng/l	1.00	0.500
CI7-BZ#183	ND		ng/l	1.00	0.500
CI7-BZ#184	ND		ng/l	1.00	0.500
CI7-BZ#187	ND		ng/l	1.00	0.500
CI8-BZ#195	ND		ng/l	1.00	0.500
CI9-BZ#206	ND		ng/l	1.00	0.500
CI10-BZ#209	ND		ng/l	1.00	0.500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
DBOB	100		50-125
BZ 198	92		50-125



Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Congeners (NOAA List) - Mansfield Lab Associated sample(s): 01-05 Batch: WG1688460-2 WG1688460-3								
CI2-BZ#8	90		82		40-140	9		30
CI3-BZ#18	89		80		40-140	11		30
CI3-BZ#28	93		87		40-140	7		30
CI4-BZ#44	101		96		40-140	5		30
CI4-BZ#49	98		92		40-140	6		30
CI4-BZ#52	94		86		40-140	9		30
CI4-BZ#66	108		102		40-140	6		30
CI5-BZ#87	112		105		40-140	6		30
CI5-BZ#101	107		100		40-140	7		30
CI5-BZ#105	117		110		40-140	6		30
CI5-BZ#118	106		101		40-140	5		30
CI6-BZ#128	120		112		40-140	7		30
CI6-BZ#138	112		106		40-140	6		30
CI6-BZ#153	114		109		40-140	4		30
CI7-BZ#170	158	Q	148	Q	40-140	7		30
CI7-BZ#180	112		109		40-140	3		30
CI7-BZ#183	113		108		40-140	5		30
CI7-BZ#184	113		105		40-140	7		30
CI7-BZ#187	115		108		40-140	6		30
CI8-BZ#195	125		119		40-140	5		30
CI9-BZ#206	126		121		40-140	4		30
CI10-BZ#209	117		113		40-140	3		30

Lab Control Sample Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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PCB Congeners (NOAA List) - Mansfield Lab Associated sample(s): 01-05 Batch: WG1688460-2 WG1688460-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
DBOB	109		107		50-125
BZ 198	123		124		50-125

PESTICIDES

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 22:04
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
 Client ID: 1/4 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 22:17
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
 Client ID: 1/8 MILE UPSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 22:29
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
 Client ID: NEAREST INTAKE
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 22:42
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
 Client ID: 1/8 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 09/18/22 22:55
 Analyst: MMG

Extraction Method: EPA 3510C
 Extraction Date: 09/16/22 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
 Client ID: 1/4 MILE DOWNSTREAM
 Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
 Date Received: 09/12/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/18/22 19:26
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1688219-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/18/22 19:26
Analyst: MMG

Extraction Method: EPA 3510C
Extraction Date: 09/16/22 07:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1688219-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1688219-2 WG1688219-3									
Delta-BHC	62		85		30-150	32	Q	20	A
Lindane	66		88		30-150	29	Q	20	A
Alpha-BHC	67		90		30-150	29	Q	20	A
Beta-BHC	59		78		30-150	28	Q	20	A
Heptachlor	69		92		30-150	29	Q	20	A
Aldrin	68		92		30-150	31	Q	20	A
Heptachlor epoxide	66		92		30-150	33	Q	20	A
Endrin	68		96		30-150	34	Q	20	A
Endrin aldehyde	57		87		30-150	42	Q	20	A
Endrin ketone	70		100		30-150	36	Q	20	A
Dieldrin	68		95		30-150	33	Q	20	A
4,4'-DDE	70		100		30-150	35	Q	20	A
4,4'-DDD	75		108		30-150	36	Q	20	A
4,4'-DDT	76		110		30-150	36	Q	20	A
Endosulfan I	64		94		30-150	37	Q	20	A
Endosulfan II	67		96		30-150	35	Q	20	A
Endosulfan sulfate	66		94		30-150	35	Q	20	A
Methoxychlor	76		112		30-150	38	Q	20	A
cis-Chlordane	64		85		30-150	29	Q	20	A
trans-Chlordane	80		110		30-150	31	Q	20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1688219-2 WG1688219-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	60		81		30-150	A
Decachlorobiphenyl	70		101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		80		30-150	B
Decachlorobiphenyl	53		79		30-150	B

METALS

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249477**Project Number:** 24711.001**Report Date:** 10/11/22**SAMPLE RESULTS**

Lab ID: L2249477-01

Date Collected: 09/09/22 08:15

Client ID: 1/4 MILE UPSTREAM

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00099		mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Barium, Total	0.03202		mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Chromium, Total	0.00155		mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Iron, Total	0.640		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Manganese, Total	0.05661		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Mercury, Total	0.00018	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 11:06	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Sodium, Total	190.		mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV
Zinc, Total	0.00384	J	mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 14:05	EPA 3005A	1,6020B	SV



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249477**Project Number:** 24711.001**Report Date:** 10/11/22**SAMPLE RESULTS**

Lab ID: L2249477-02

Date Collected: 09/09/22 12:10

Client ID: 1/8 MILE UPSTREAM

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00135		mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Barium, Total	0.03922		mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Chromium, Total	0.00251		mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Iron, Total	1.70		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Manganese, Total	0.1310		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Mercury, Total	0.00019	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 11:10	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Sodium, Total	328.		mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Thallium, Total	0.00014	J	mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV
Zinc, Total	0.01631		mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 14:32	EPA 3005A	1,6020B	SV



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249477**Project Number:** 24711.001**Report Date:** 10/11/22**SAMPLE RESULTS**

Lab ID: L2249477-03

Date Collected: 09/09/22 14:14

Client ID: NEAREST INTAKE

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00123		mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Barium, Total	0.03747		mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Chromium, Total	0.00156		mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Iron, Total	0.817		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Manganese, Total	0.06868		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Mercury, Total	0.00015	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 11:13	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Sodium, Total	411.		mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV
Zinc, Total	0.00635	J	mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 14:37	EPA 3005A	1,6020B	SV



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249477**Project Number:** 24711.001**Report Date:** 10/11/22**SAMPLE RESULTS**

Lab ID: L2249477-04

Date Collected: 09/09/22 15:00

Client ID: 1/8 MILE DOWNSTREAM

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00110		mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Barium, Total	0.03913		mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Chromium, Total	0.00191		mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Iron, Total	0.651		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Manganese, Total	0.06747		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Mercury, Total	0.00017	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 11:16	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Sodium, Total	417.		mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV
Zinc, Total	0.00369	J	mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 14:42	EPA 3005A	1,6020B	SV



Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249477**Project Number:** 24711.001**Report Date:** 10/11/22**SAMPLE RESULTS**

Lab ID: L2249477-05

Date Collected: 09/09/22 17:08

Client ID: 1/4 MILE DOWNSTREAM

Date Received: 09/12/22

Sample Location: CHELSEA, NY

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	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Arsenic, Total	0.00122		mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Barium, Total	0.03657		mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Chromium, Total	0.00176		mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Iron, Total	1.24		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Manganese, Total	0.09077		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Mercury, Total	0.00018	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 11:20	EPA 7470A	1,7470A	DMB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Sodium, Total	304.		mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV
Zinc, Total	0.00570	J	mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 14:48	EPA 3005A	1,6020B	SV



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

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): 01-05 Batch: WG1687630-1										
Antimony, Total	ND		mg/l	0.00400	0.00042	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Barium, Total	ND		mg/l	0.00050	0.00017	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Iron, Total	ND		mg/l	0.0500	0.0191	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Silver, Total	ND		mg/l	0.00040	0.00016	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Sodium, Total	0.0317	J	mg/l	0.100	0.0293	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Thallium, Total	0.00018	J	mg/l	0.00100	0.00014	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	09/15/22 18:32	10/04/22 13:13	1,6020B	SV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1690100-1										
Mercury, Total	0.00018	J	mg/l	0.00020	0.00009	1	09/21/22 13:46	09/23/22 10:38	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1687630-2								
Antimony, Total	95		-		80-120	-		
Arsenic, Total	102		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	110		-		80-120	-		
Cadmium, Total	100		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Iron, Total	101		-		80-120	-		
Manganese, Total	97		-		80-120	-		
Selenium, Total	97		-		80-120	-		
Silver, Total	102		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	104		-		80-120	-		
Zinc, Total	94		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1690100-2								
Mercury, Total	111		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1687630-3 QC Sample: L2249449-21 Client ID: MS Sample												
Antimony, Total	0.00058J	0.5	0.4792	96		-	-		75-125	-		20
Arsenic, Total	0.00111	0.12	0.1242	102		-	-		75-125	-		20
Barium, Total	0.03173	2	1.998	98		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05373	107		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05266	99		-	-		75-125	-		20
Chromium, Total	0.00073J	0.2	0.1898	95		-	-		75-125	-		20
Iron, Total	0.477	1	1.46	98		-	-		75-125	-		20
Manganese, Total	0.04413	0.5	0.5203	95		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.124	103		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05118	102		-	-		75-125	-		20
Sodium, Total	198.	10	241	430	Q	-	-		75-125	-		20
Thallium, Total	0.00019J	0.12	0.1251	104		-	-		75-125	-		20
Zinc, Total	0.00665J	0.5	0.4602	92		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1690100-3 QC Sample: L2249449-22 Client ID: MS Sample												
Mercury, Total	0.00015J	0.005	0.00472	94		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249477

Report Date: 10/11/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1687630-4 QC Sample: L2249449-21 Client ID: DUP Sample						
Antimony, Total	0.00058J	0.00092J	mg/l	NC		20
Arsenic, Total	0.00111	0.00108	mg/l	3		20
Barium, Total	0.03173	0.03211	mg/l	1		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00073J	0.00075J	mg/l	NC		20
Iron, Total	0.477	0.504	mg/l	6		20
Manganese, Total	0.04413	0.04530	mg/l	3		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	198.	198	mg/l	0		20
Thallium, Total	0.00019J	0.00069J	mg/l	NC		20
Zinc, Total	0.00665J	0.00687J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1690100-4 QC Sample: L2249449-22 Client ID: DUP Sample						
Mercury, Total	0.00015J	0.00013J	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-01
Client ID: 1/4 MILE UPSTREAM
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 08:15
Date Received: 09/12/22
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										
Solids, Total Suspended	19.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MDG
Chloride	410		mg/l	10	8.9	10	-	09/28/22 21:33	121,4500CL-E	TLH
Fluoride	0.11	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	65.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MCU
Total Organic Carbon	2.46		mg/l	0.500	0.097	1	-	09/29/22 08:31	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-02
Client ID: 1/8 MILE UPSTREAM
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 12:10
Date Received: 09/12/22
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										
Solids, Total Suspended	49.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MDG
Chloride	700		mg/l	10	8.9	10	-	09/28/22 21:39	121,4500CL-E	TLH
Fluoride	0.15	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	98.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MCU
Total Organic Carbon	1.92		mg/l	0.500	0.097	1	-	09/29/22 08:53	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-03
Client ID: NEAREST INTAKE
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 14:14
Date Received: 09/12/22
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										
Solids, Total Suspended	24.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MDG
Chloride	870		mg/l	10	8.9	10	-	09/28/22 21:41	121,4500CL-E	TLH
Fluoride	0.15	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	120		mg/l	50	6.8	5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MCU
Total Organic Carbon	1.80		mg/l	0.500	0.097	1	-	09/29/22 09:15	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-04
Client ID: 1/8 MILE DOWNSTREAM
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 15:00
Date Received: 09/12/22
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										
Solids, Total Suspended	20.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MDG
Chloride	890		mg/l	20	18.	20	-	09/28/22 20:12	121,4500CL-E	TLH
Fluoride	0.14	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	130		mg/l	50	6.8	5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MCU
Total Organic Carbon	1.68		mg/l	0.500	0.097	1	-	09/29/22 09:36	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2249477-05
Client ID: 1/4 MILE DOWNSTREAM
Sample Location: CHELSEA, NY

Date Collected: 09/09/22 17:08
Date Received: 09/12/22
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										
Solids, Total Suspended	44.		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MDG
Chloride	640		mg/l	10	8.9	10	-	09/28/22 21:44	121,4500CL-E	TLH
Fluoride	0.14	J	mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
Sulfate	98.		mg/l	25	3.4	2.5	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MCU
Total Organic Carbon	2.04		mg/l	0.500	0.097	1	-	09/29/22 09:58	121,5310C	DW



Project Name: HUDSON 7 RIVER WATER STUDY

Lab Number: L2249477

Project Number: 24711.001

Report Date: 10/11/22

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): 01-05 Batch: WG1687982-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/15/22 20:40	121,2540D	MD
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1689079-1										
Fluoride	ND		mg/l	0.20	0.01	1	09/19/22 08:56	09/19/22 12:11	121,4500F-BC	ES
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1693158-1										
Chloride	ND		mg/l	1.0	0.89	1	-	09/28/22 19:33	121,4500CL-E	TL
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1693306-1										
Total Organic Carbon	ND		mg/l	0.500	0.097	1	-	09/29/22 05:02	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1694723-1										
Sulfate	1.5	J	mg/l	10	1.4	1	10/03/22 11:52	10/03/22 11:52	121,4500SO4-E	MC

Lab Control Sample Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249477

Report Date: 10/11/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1687982-2								
Solids, Total Suspended	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1689079-2								
Fluoride	94		-		78-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1693158-2								
Chloride	93		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1693306-2								
Total Organic Carbon	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1694723-2								
Sulfate	95		-		90-110	-		

Matrix Spike Analysis Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Lab Number: L2249477
Report Date: 10/11/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1689079-4 QC Sample: L2249477-01 Client ID: 1/4 MILE UPSTREAM												
Fluoride	0.11J	1	1.0	101		-	-		69-124	-		13
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1693158-4 QC Sample: L2249477-01 Client ID: 1/4 MILE UPSTREAM												
Chloride	410	20	420	50	Q	-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1693306-4 QC Sample: L2249524-01 Client ID: MS Sample												
Total Organic Carbon	1.27	16	18.4	107		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1694723-4 QC Sample: L2249477-03 Client ID: NEAREST INTAKE												
Sulfate	120	250	390	109		-	-		55-147	-		14

Lab Duplicate Analysis

Batch Quality Control

Project Name: HUDSON 7 RIVER WATER STUDY

Project Number: 24711.001

Lab Number: L2249477

Report Date: 10/11/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1687982-3 QC Sample: L2249985-01 Client ID: DUP Sample						
Solids, Total Suspended	580	600	mg/l	3		32
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1689079-3 QC Sample: L2249477-01 Client ID: 1/4 MILE UPSTREAM						
Fluoride	0.11J	0.11J	mg/l	NC		13
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1693158-3 QC Sample: L2249477-01 Client ID: 1/4 MILE UPSTREAM						
Chloride	410	390	mg/l	5		7
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1693306-3 QC Sample: L2249524-01 Client ID: DUP Sample						
Total Organic Carbon	1.27	1.33	mg/l	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1694723-3 QC Sample: L2249477-03 Client ID: NEAREST INTAKE						
Sulfate	120	130	mg/l	8		14

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249477**Project Number:** 24711.001**Report Date:** 10/11/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
D	Absent
F	Absent
M	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249477-01A	Vial HCl preserved	M	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249477-01B	Vial HCl preserved	M	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249477-01C	Vial HCl preserved	M	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249477-01D	Vial H2SO4 preserved	M	NA		2.8	Y	Absent		TOC-5310(28)
L2249477-01E	Vial H2SO4 preserved	M	NA		2.8	Y	Absent		TOC-5310(28)
L2249477-01F	Vial H2SO4 preserved	M	NA		2.8	Y	Absent		TOC-5310(28)
L2249477-01G	Amber 120ml unpreserved	M	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2249477-01H	Amber 120ml unpreserved	M	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2249477-01I	Plastic 250ml HNO3 preserved	M	<2	<2	2.8	Y	Absent		BA-6020T(180),TL-6020T(180),SE-6020T(180),FE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2249477-01J	Amber 250ml unpreserved	M	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-01K	Amber 250ml unpreserved	M	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-01L	Amber 250ml unpreserved	M	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-01M	Amber 250ml unpreserved	M	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-01N	Plastic 500ml unpreserved	M	7	7	2.8	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249477-01O	Plastic 950ml unpreserved	M	7	7	2.8	Y	Absent		TSS-2540(7)
L2249477-01P	Amber 1000ml unpreserved	M	7	7	2.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-01Q	Amber 1000ml unpreserved	M	7	7	2.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-02A	Vial HCl preserved	M	NA		2.8	Y	Absent		NYTCL-8260(14)

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Serial_No:10112211:26
Lab Number: L2249477
Report Date: 10/11/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249477-02B	Vial HCl preserved	M	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249477-02C	Vial HCl preserved	M	NA		2.8	Y	Absent		NYTCL-8260(14)
L2249477-02D	Vial H2SO4 preserved	M	NA		2.8	Y	Absent		TOC-5310(28)
L2249477-02E	Vial H2SO4 preserved	M	NA		2.8	Y	Absent		TOC-5310(28)
L2249477-02F	Vial H2SO4 preserved	M	NA		2.8	Y	Absent		TOC-5310(28)
L2249477-02G	Amber 120ml unpreserved	M	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2249477-02H	Amber 120ml unpreserved	M	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2249477-02I	Plastic 250ml HNO3 preserved	M	<2	<2	2.8	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2249477-02J	Amber 250ml unpreserved	M	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-02K	Amber 250ml unpreserved	M	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-02L	Amber 250ml unpreserved	M	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-02M	Amber 250ml unpreserved	M	7	7	2.8	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-02N	Plastic 500ml unpreserved	M	7	7	2.8	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249477-02O	Plastic 950ml unpreserved	M	7	7	2.8	Y	Absent		TSS-2540(7)
L2249477-02P	Amber 1000ml unpreserved	M	7	7	2.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-02Q	Amber 1000ml unpreserved	M	7	7	2.8	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-03A	Vial HCl preserved	D	NA		3.2	Y	Absent		NYTCL-8260(14)
L2249477-03B	Vial HCl preserved	D	NA		3.2	Y	Absent		NYTCL-8260(14)
L2249477-03C	Vial HCl preserved	D	NA		3.2	Y	Absent		NYTCL-8260(14)
L2249477-03D	Vial H2SO4 preserved	D	NA		3.2	Y	Absent		TOC-5310(28)
L2249477-03E	Vial H2SO4 preserved	D	NA		3.2	Y	Absent		TOC-5310(28)
L2249477-03F	Vial H2SO4 preserved	D	NA		3.2	Y	Absent		TOC-5310(28)
L2249477-03G	Amber 120ml unpreserved	D	7	7	3.2	Y	Absent		NYTCL-8081(7)
L2249477-03H	Amber 120ml unpreserved	D	7	7	3.2	Y	Absent		NYTCL-8081(7)

Project Name: HUDSON 7 RIVER WATER STUDY
Project Number: 24711.001

Serial_No:10112211:26
Lab Number: L2249477
Report Date: 10/11/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249477-03I	Plastic 250ml HNO3 preserved	D	<2	<2	3.2	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2249477-03J	Amber 250ml unpreserved	D	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-03K	Amber 250ml unpreserved	D	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-03L	Amber 250ml unpreserved	D	7	7	3.2	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-03M	Amber 250ml unpreserved	D	7	7	3.2	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-03N	Plastic 500ml unpreserved	D	7	7	3.2	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249477-03O	Plastic 950ml unpreserved	D	7	7	3.2	Y	Absent		TSS-2540(7)
L2249477-03P	Amber 1000ml unpreserved	D	7	7	3.2	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-03Q	Amber 1000ml unpreserved	D	7	7	3.2	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-04A	Vial HCl preserved	D	NA		3.2	Y	Absent		NYTCL-8260(14)
L2249477-04B	Vial HCl preserved	D	NA		3.2	Y	Absent		NYTCL-8260(14)
L2249477-04C	Vial HCl preserved	D	NA		3.2	Y	Absent		NYTCL-8260(14)
L2249477-04D	Vial H2SO4 preserved	D	NA		3.2	Y	Absent		TOC-5310(28)
L2249477-04E	Vial H2SO4 preserved	D	NA		3.2	Y	Absent		TOC-5310(28)
L2249477-04F	Vial H2SO4 preserved	D	NA		3.2	Y	Absent		TOC-5310(28)
L2249477-04G	Amber 120ml unpreserved	D	7	7	3.2	Y	Absent		NYTCL-8081(7)
L2249477-04H	Amber 120ml unpreserved	D	7	7	3.2	Y	Absent		NYTCL-8081(7)
L2249477-04I	Plastic 250ml HNO3 preserved	D	<2	<2	3.2	Y	Absent		BA-6020T(180),FE-6020T(180),TL-6020T(180),SE-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28)
L2249477-04J	Amber 250ml unpreserved	D	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-04K	Amber 250ml unpreserved	D	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-04L	Amber 250ml unpreserved	D	7	7	3.2	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-04M	Amber 250ml unpreserved	D	7	7	3.2	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-04N	Plastic 500ml unpreserved	D	7	7	3.2	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)

Project Name: HUDSON 7 RIVER WATER STUDY**Lab Number:** L2249477**Project Number:** 24711.001**Report Date:** 10/11/22**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2249477-04O	Plastic 950ml unpreserved	D	7	7	3.2	Y	Absent		TSS-2540(7)
L2249477-04P	Amber 1000ml unpreserved	D	7	7	3.2	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-04Q	Amber 1000ml unpreserved	D	7	7	3.2	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-05A	Vial HCl preserved	F	NA		2.3	Y	Absent		NYTCL-8260(14)
L2249477-05B	Vial HCl preserved	F	NA		2.3	Y	Absent		NYTCL-8260(14)
L2249477-05C	Vial HCl preserved	F	NA		2.3	Y	Absent		NYTCL-8260(14)
L2249477-05D	Vial H2SO4 preserved	F	NA		2.3	Y	Absent		TOC-5310(28)
L2249477-05E	Vial H2SO4 preserved	F	NA		2.3	Y	Absent		TOC-5310(28)
L2249477-05F	Vial H2SO4 preserved	F	NA		2.3	Y	Absent		TOC-5310(28)
L2249477-05G	Amber 120ml unpreserved	F	7	7	2.3	Y	Absent		NYTCL-8081(7)
L2249477-05H	Amber 120ml unpreserved	F	7	7	2.3	Y	Absent		NYTCL-8081(7)
L2249477-05I	Plastic 250ml HNO3 preserved	F	<2	<2	2.3	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180)
L2249477-05J	Amber 250ml unpreserved	F	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-05K	Amber 250ml unpreserved	F	7	7	2.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2249477-05L	Amber 250ml unpreserved	F	7	7	2.3	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-05M	Amber 250ml unpreserved	F	7	7	2.3	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L2249477-05N	Plastic 500ml unpreserved	F	7	7	2.3	Y	Absent		SO4-4500(28),F-4500(28),CL-4500(28)
L2249477-05O	Plastic 950ml unpreserved	F	7	7	2.3	Y	Absent		TSS-2540(7)
L2249477-05P	Amber 1000ml unpreserved	F	7	7	2.3	Y	Absent		A2-PCBCONG-8270-NOAA(7)
L2249477-05Q	Amber 1000ml unpreserved	F	7	7	2.3	Y	Absent		A2-PCBCONG-8270-NOAA(7)

Project Name: HUDSON 7 RIVER WATER STUDY
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GLOSSARY

Acronyms

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

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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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Data Qualifiers

Identified Compounds (TICs).

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

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 105 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997 in conjunction with NOAA Technical Memorandum NMFS-NWFSC-59: Extraction, Cleanup and GC/MS Analysis of Sediments and Tissues for Organic Contaminants, March 2004 and the Determination of Pesticides and PCBs in Water and Oil/Sediment by GC/MS: Method 680, EPA 01A0005295, November 1985.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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, SM4500CI-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, **LCHAT 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.

 NEW JERSEY CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Date Rec'd in Lab 9/12/22	ALPHA Job # L2249477											
	Project Information Project Name: HUDSON 7 RIVER WATER STUDY Project Location: CHELSEA, NY Project # _____ (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO# _____										
Client Information Client: Normandeau Address: _____ Phone: 603-319-5013 Mike Fax: 603-334-6397 Taylor Email: mtaylor@normandeau.com		Regulatory Requirement <input type="checkbox"/> SRS Residential/Non Residential <input type="checkbox"/> SRS Impact to Groundwater <input type="checkbox"/> NJ Ground Water Quality Standards <input type="checkbox"/> NJ IGW SPLP Leachate Criteria <input type="checkbox"/> Other		Site Information Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product: _____											
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)											
For EPH, selection is REQUIRED: <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2	For VOC, selection is REQUIRED: <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011	Other project specific requirements/comments: Please specify Metals or TAL.													
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time												
49477-01	VESSEL-BASED SAMPLES 1/4 MILE UPSTREAM	9-9-22	0815	W	WR	2	1	1	2	2	3	3	1	2	
02	1/2 MILE UPSTREAM	9-9-22	1210	W	WR	2	1	1	2	2	3	3	1	2	
03	NEAREST INTAKE	9-9-22	1414	W	WR	2	1	1	2	2	3	3	1	2	
04	1/8 MILE DOWNSTREAM	9-9-22	1500	W	WR	2	1	1	2	2	3	3	1	2	
05	1/4 MILE DOWNSTREAM	9-9-22	1708	W	WR	2	1	1	2	2	3	3	1	2	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative	A P P A A V V P A N N N N N B D C N	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)							
		Relinquished By:	Date/Time	Received By:	Date/Time										
		<i>Tom DeLo</i>	9-9-22/1045	<i>Tom DeLo</i>	9/12/22 0715										
		<i>Tom DeLo</i>	9/12/22 12:55	<i>Don D'Amico</i>	9/12/22 1305										
		<i>Paul Mazzo</i>	9/12/22 1505	<i>Paul Mazzo</i>	9/12/22 1605										

Total Bottles

PCB CONDENSERS - EPA 8270 D / MADA 79/11 7/12/22 8000