



**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 3

Date Rec'd  
in Lab

ALPHA Job #

<b>Client Information</b>	<b>Project Information</b>	<b>Deliverables</b>	<b>Billing Information</b>
Client: <i>Normandeau</i>	Project Name: <i>HUDSON RIVER WATER STUDY</i>	<input type="checkbox"/> NJ Full / Reduced	<input type="checkbox"/> Same as Client Info
Address:	Project Location: <i>CHILSEA, NJ</i>	<input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)	PO #
Phone: <i>603-319-5013</i>	Project #	<input type="checkbox"/> Other	
Fax: <i>603-334-6399</i>	(Use Project name as Project #) <input type="checkbox"/>	<b>Regulatory Requirement</b>	
Email: <i>normandeau.com</i>	Project Manager: <i>Mike Taylor</i>	<input type="checkbox"/> SRS Residential/Non Residential	<b>Site Information</b>
	ALPHAQuote #: <i>19745</i>	<input type="checkbox"/> SRS Impact to Groundwater	
	Turn-Around Time	<input type="checkbox"/> NJ Ground Water Quality Standards	Petroleum Product:
	Standard <input type="checkbox"/>	<input type="checkbox"/> NJ IGW SPLP Leachate Criteria	
	Rush (only if pre approved) <input type="checkbox"/>	<input type="checkbox"/> Other	
	Due Date:		
	# of Days:		

These samples have been previously analyzed by Alpha <input type="checkbox"/>		<b>ANALYSIS</b>	<b>Sample Filtration</b>																		
<b>For EPH, selection is REQUIRED:</b>	<b>For VOC, selection is REQUIRED:</b>	<table border="1"> <tr> <td>PCB 8182 - LOW</td> <td>SOIL CL F</td> <td>TSS 2540</td> <td>STATION LVI 115</td> <td>10001</td> <td>0228 JN</td> <td>TOL</td> <td>TOTAL AS TOTAL METALS</td> <td>AZ-14-DIOXANE IN P/S</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	PCB 8182 - LOW	SOIL CL F	TSS 2540	STATION LVI 115	10001	0228 JN	TOL	TOTAL AS TOTAL METALS	AZ-14-DIOXANE IN P/S										<input type="checkbox"/> Done
PCB 8182 - LOW	SOIL CL F		TSS 2540	STATION LVI 115	10001	0228 JN	TOL	TOTAL AS TOTAL METALS	AZ-14-DIOXANE IN P/S												
<input type="checkbox"/> Category 1	<input type="checkbox"/> 1,4-Dioxane	<b>Other project specific requirements/comments:</b>		<input type="checkbox"/> Lab to do																	
<input type="checkbox"/> Category 2	<input type="checkbox"/> 8011	<b>Please specify Metals or TAL.</b>		<input type="checkbox"/> Lab to do																	
				<b>(Please Specify below)</b>																	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS								Sample Specific Comments
		Date	Time			PCB 8182 - LOW	SOIL CL F	TSS 2540	STATION LVI 115	10001	0228 JN	TOL	TOTAL AS TOTAL METALS	
	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	
	1-0 HR - TRIAL	9/9/22	0920	W	KS	2	1	1	2	2	33	1	2	
	1-30 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 <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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.)
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Relinquished By:	Date/Time	Received By:	Date/Time
<i>Tom Dille</i>	9/12/22 1255	<i>Don Dan</i>	9/12/22 1305
<i>Don Dan</i>	9/12/22		

① PCB CONCENTRERS - EPA 8270D/NOAA



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Page

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Date Rec'd  
in Lab

ALPHA Job #

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

These samples have been previously analyzed by Alpha

For EPH, selection is REQUIRED:	For VOC, selection is REQUIRED:	Other project specific requirements/comments:	ANALYSIS										Sample Filtration	Total Bottle
<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.	<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">PCB-0082 - Low</div> <div style="width: 15%;">SO4 CL F</div> <div style="width: 15%;">TSS 2540</div> <div style="width: 15%;">SILICA 17000</div> <div style="width: 15%;">PHOSPH 17000</div> <div style="width: 15%;">NH4-N 17000</div> <div style="width: 15%;">NO3-N 17000</div> <div style="width: 15%;">NH4-P 17000</div> <div style="width: 15%;">NO3-P 17000</div> <div style="width: 15%;">TOXIC 17000</div> <div style="width: 15%;">AZ-DIOXINES-M-PPR</div> </div>										<input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											Sample Specific Comments			
		Date	Time																
	INTAKE PUMP SAMPLES																		
	IP-3HR TRIAL	9/9/22	1250	W	KS	2	1	1	2	2	33	1	2						
	IP-3HR 30MIN TRIAL	9/9/22	1320	W	KS	2	1	1	2	2	33	1	2						
	IP-4HR TRIAL	9/9/22	1420	W	KS	2	1	1	2	2	33	1	2						
	IP-4HR 30MIN TRIAL	9/9/22	1435	W	KS	2	1	1	2	2	33	1	2						
	IP-5HR TRIAL	9/9/22	1455	W	KS	2	1	1	2	2	33	1	2						
	IP-5HR 30MIN TRIAL	9/9/22	1530	W	KS	2	1	1	2	2	33	1	2						
	IP-6HR TRIAL	9/9/22	1600	W	KS	2	1	1	2	2	33	1	2						
	IP-6HR 30MIN TRIAL	9/9/22	1630	W	KS	2	1	1	2	2	33	1	2						
	IP-30 MIN Post Trial	9/9/22	1735	W	KS	2	1	1	2	2	33	1	2						
	IP-1HR-30MIN Post Trial	9/9/22	1805	W	KS	2	1	1	2	2	33	1	2						

Preservative Code:	Container Code: KS	Westboro: Certification No: MA935	Container Type	A	P	P	A	A	V	V	P	A
A = None	P = Plastic	Mansfield: Certification No: MA015	Preservative	N	N	N	N	N	B	D	C	N
B = HCl	A = Amber Glass											
C = HNO3	V = Vial											
D = H2SO4	G = Glass											
E = NaOH	B = Bacteria Cup											
F = MeOH	C = Cube											
G = NaHSO4	O = Other											
H = Na2S2O3	E = Encore											
K/E = Zn Ac/NaOH	D = BOD Bottle											
O = Other												

Relinquished By:	Date/Time	Received By:	Date/Time
Tom Dale	9/12/22 1255	Don Dale	9/12/22 1305
Don Dale	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.)

① PCB CONCENTERS - EPA 8270 D / NOAA



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Date Rec'd  
in Lab

ALPHA Job #

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

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											Sample Specific Comments		
		Date	Time															
	<u>IP-1 HR 30 MIN POST TRIAL</u>	<u>9/9/22</u>	<u>1835</u>	<u>W</u>	<u>KS</u>													
	<u>IP-2 HR POST TRIAL</u>	<u>9/9/22</u>	<u>1905</u>	<u>W</u>	<u>KS</u>													

Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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:	Date/Time	Received By:	Date/Time													
		<u>Tom Doherty</u>	<u>9/12/22 1255</u>	<u>Don Doherty</u>	<u>9/12/22 1345</u>													
		<u>Don Doherty</u>	<u>9/12/22</u>															

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Page

1 of 1

Date Rec'd  
in Lab

ALPHA Job #

**Client Information**

Client: Normandeau  
Address:  
Phone: 603-319-5013 Mike  
Fax: 603-334-6397 Taylor  
Email: mtaylor@normandeau.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**

PCB 8082-LOW	SO4 CL F	TSS 2540	8270010 DMS	17025	18084	NO 8260	10C	TOTAL 16 TOTAL METALS	AR-14-DIOXANE IN - PPB
--------------	----------	----------	-------------	-------	-------	---------	-----	-----------------------	------------------------

**Sample Filtration**

Done  
 Lab to do  
 Preservation  
 Lab to do

(Please Specify below)

**Sample Specific Comments**

ALPHA Lab ID  
(Lab Use Only)

Sample ID  
VESSEL-BASED SAMPLES

Collection  
Date Time  
Sample Matrix  
Sampler's Initials

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB 8082-LOW	SO4 CL F	TSS 2540	8270010 DMS	17025	18084	NO 8260	10C	TOTAL 16 TOTAL METALS	AR-14-DIOXANE IN - PPB	Sample Specific Comments	Total Bottle
	<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<sub>3</sub>  
D = H<sub>2</sub>SO<sub>4</sub>  
E = NaOH  
F = MeOH  
G = NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
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 P P A A V V P A

**Preservative**

N N N N N B D C N

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Tom DeLoe</u>	<u>9-9-22 1045</u>	<u>Tom DeLoe</u>	<u>9/12/22 0715</u>
<u>Tom DeLoe</u>	<u>9/12/22 1255</u>	<u>Don Dale</u>	<u>9/12/22 1305</u>
<u>Don Dale</u>	<u>9/12/22</u>		

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⊕ 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).

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

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**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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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: L2249449-03  
 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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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: L2249449-04  
 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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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: L2249449-05  
 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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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: L2249449-06  
 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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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: L2249449-11  
 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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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: L2249449-13  
 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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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: L2249449-20  
 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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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  
**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					
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:** 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					
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  
**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					
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:** 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					
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  
**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					
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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**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					
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

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Parameter	LCS %Recovery	Qual	LCS %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
1,1,2,2-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

**Project Name:** HUDSON 7 RIVER WATER STUDY

**Lab Number:** L2249449

**Project Number:** 24711.001

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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

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**Project Number:** 24711.001

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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

**Project Number:** 24711.001

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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

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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

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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): 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

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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

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<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
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

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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

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

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

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**Lab Number:** L2249449

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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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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## 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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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## 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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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## 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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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: L2249449-12  
 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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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## 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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
Semivolatle 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
Semivolatle 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	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
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

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21-22 Batch: WG1687634-2 WG1687634-3								

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
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

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
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 %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								
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		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								
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		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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	LCS %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  
**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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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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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  
**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
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07-10,15,17-18,20 Batch: WG1688342-2 WG1688342-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
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
<b>Total Metals - Mansfield Lab</b>											
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  
 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	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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

Date Collected: 09/09/22 09:20

Client ID: IP-0HR-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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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  
 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	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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

Date Collected: 09/09/22 14:55

Client ID: IP-5HR-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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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

**Lab Number:** L2249449

**Project Number:** 24711.001

**Report Date:** 10/04/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
<b>Total Metals - Mansfield Lab Associated sample(s): 21-22 Batch: WG1687630-2</b>					
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	-	
<b>Total Metals - Mansfield Lab Associated sample(s): 21-22 Batch: WG1690100-2</b>					
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
<b>Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1687626-4 QC Sample: L2249449-01 Client ID: 1ST PRE-TRIAL</b>						
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
<b>Total Metals - Mansfield Lab Associated sample(s): 01-20 QC Batch ID: WG1687629-4 QC Sample: L2249449-02 Client ID: 2ND PRE-TRIAL</b>						
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
<b>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</b>					
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
<b>Total Metals - Mansfield Lab Associated sample(s): 21-22 QC Batch ID: WG1690100-4 QC Sample: L2249449-22 Client ID: IP-2HR POST-TRIAL</b>					
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**Project Number:** 24711.001

**Lab Number:** L2249449  
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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**Lab Number:** L2249449  
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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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



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**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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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**

<b>Cooler</b>	<b>Custody Seal</b>
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**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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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<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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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<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)



**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**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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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**Project Number:** 24711.001

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

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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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<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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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<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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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<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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

**Serial\_No:**10042217:44  
**Lab Number:** L2249449  
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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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

Serial\_No:10042217:44

**Lab Number:** L2249449

**Report Date:** 10/04/22

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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

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

## GLOSSARY

### Acronyms

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

Report Format: DU Report with 'J' Qualifiers



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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.)

Report Format: DU Report with 'J' Qualifiers



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

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

## 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

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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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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

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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**

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


 <b>NEW JERSEY CHAIN OF CUSTODY</b> 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	<b>Service Centers</b> 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									
		<b>Project Information</b> Project Name: HUDSON 7 RIVER WATER STUDY Project Location: CHELSEA, NY Project # _____ (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO# _____								
<b>Client Information</b> 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: _____		<b>Regulatory Requirement</b> <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		<b>Site Information</b> Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product: _____								
These samples have been previously analyzed by Alpha <input type="checkbox"/>		<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)										
<b>For EPH, selection is REQUIRED:</b> <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2		<b>For VOC, selection is REQUIRED:</b> <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	PCB 8082 - Low	504 CL F	TSS 2540	870510 LVI NJ 5720-01	NJ 8081	NJ 8260	TIC	TOTAL AS TOTAL METAL	AZ-4-DIOXANE SIM - P/S
-02	1ST PRE-TRIAL	9/9/22	0730	W	KS									
-03	2ND PRE-TRIAL	9/9/22	0800	W	KS									
-04	3RD PRE-TRIAL	9/9/22	0830	W	KS									
-05	4th PRE-TRIAL	9/9/22	0920	W	KS									
-06	IP-0 HR -TRIAL	9/9/22	0950	W	KS									
-07	IP-30 MIN -TRIAL	9/9/22	1020	W	KS									
-08	IP-1 HR -TRIAL	9/9/22	1050	W	KS									
-09	IP-1 HR 30 MIN W/ATH	9/9/22	1120	W	KS									
-10	IP-2 HR -TRIAL	9/9/22	1200	W	KS									
-10	IP-2 HR 30 MIN TRIAL	9/9/22	1220	W	KS									

Total Bottles

Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Container Type: A P P A A V V P A Preservative: N N N N N B D C N
	Tom Doherty 9/12/22 1255 Paul Maggella 9/12/22 1505	Paul Maggella 9/12/22 1305 [Signature] 9/12/22 1605	

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 CONCENTRATIONS - FPA START 1/20/22

	<b>NEW JERSEY CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <b>2 of 3</b>	Date Rec'd in Lab <b>9/12/22</b>	ALPHA Job # <b>L2249449</b>																						
	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	<b>Project Information</b> Project Name: <b>HUDSON RIVER WATER STUDY</b> Project Location: <b>CHELSEA, NY</b> Project # (Use Project name as Project #) <input type="checkbox"/> Project Manager: <b>Mike Taylor</b> ALPHAQuote #: <b>19745</b> Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	<b>Deliverables</b> <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO #	<b>Client Information</b> Client: <b>Normandean</b> Address: Phone: <b>603-319-5013</b> Fax: <b>603-334-6397</b> Email: <b>mtaylor@normandean.com</b>																					
These samples have been previously analyzed by Alpha <input type="checkbox"/>			<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)																						
<b>For EPH, selection is REQUIRED:</b> <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2	<b>For VOC, selection is REQUIRED:</b> <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011	<b>Other project specific requirements/comments:</b> Please specify Metals or TAL.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">PUB-082-L300</td> <td style="width:5%;">S04 CL F</td> <td style="width:5%;">TSS 2540</td> <td style="width:5%;">S2705 in CVI N</td> <td style="width:5%;">1/10/22</td> <td style="width:5%;">HSE-0824</td> <td style="width:5%;">MS-08260</td> <td style="width:5%;">TOL</td> <td style="width:5%;">TOTALly TOTAL METALS</td> <td style="width:5%;">AZ-14-DIOXANISSUM-PPE</td> </tr> </table>		PUB-082-L300	S04 CL F	TSS 2540	S2705 in CVI N	1/10/22	HSE-0824	MS-08260	TOL	TOTALly TOTAL METALS	AZ-14-DIOXANISSUM-PPE	<b>Sample Specific Comments</b>												
PUB-082-L300	S04 CL F	TSS 2540	S2705 in CVI N	1/10/22	HSE-0824	MS-08260	TOL	TOTALly TOTAL METALS	AZ-14-DIOXANISSUM-PPE																		
ALPHA Lab ID (Lab Use Only)	Sample ID <b>INTAKE PUMP SAMPLES</b>	Collection Date Time	Sample Matrix	Sampler's Initials						Sample Specific Comments																	
49449-11	IP-3HR TRIAL	9/9/22 1250	W	KS	2	1	1	2	2	3	3	1	2														
-12	IP-3HR 30MIN TRIAL	9/9/22 1300	W	KS	2	1	1	2	2	3	3	1	2														
-13	IP-4HR TRIAL	9/9/22 1420	W	KS	2	1	1	2	2	3	3	1	2														
-14	IP-4HR 30MIN TRIAL	9/9/22 1435	W	KS	2	1	1	2	2	3	3	1	2														
-15	IP-5HR TRIAL	9/9/22 1455	W	KS	2	1	1	2	2	3	3	1	2														
-16	IP-5HR 30 MIN TRIAL	9/9/22 1530	W	KS	2	1	1	2	2	3	3	1	2														
-17	IP-6HR TRIAL	9/9/22 1600	W	KS	2	1	1	2	2	3	3	1	2														
-18	IP-6HR 30 MIN TRIAL	9/9/22 1630	W	KS	2	1	1	2	2	3	3	1	2														
-19	IP-30 MIN POST TRIAL	9/9/22 1735	W	KS	2	1	1	2	2	3	3	1	2														
-20	IP-1HR-30min POST TRIAL	9/9/22 1805	W	KS	2	1	1	2	2	3	3	1	2														
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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" style="width:100%; border-collapse: collapse;"> <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> </tr> <tr> <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	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	B	D	C	N																			
Relinquished By:		Date/Time	Received By:		Date/Time																						
Don DeLuca		9/12/22 1255	Don DeLuca		9/12/22 1305																						
Paul Mazzella		9/12/22 1505	Paul Mazzella		9/12/22 1605																						
[Signature]		9/12/22	[Signature]		9/12/22																						

Total Bottle

PUB COVERS - FDA 8270.D/NOAN



 <b>ALPHA ANALYTICAL</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	<b>NEW JERSEY CHAIN OF CUSTODY</b> Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <b>3 of 3</b>	Date Rec'd in Lab <b>9/12/22</b>	ALPHA Job # <b>2249449</b>				
		<b>Project Information</b> Project Name: <b>HUDSON 7 RIVER WATER STUDY</b> Project Location: <b>CHELSEA, NY</b> Project # _____ (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO # _____			
<b>Client Information</b> Client: <b>NOEMANDEAU</b> Address: _____ Phone: <b>603-319-5013</b> Fax: <b>603-834-6397</b> Email: <b>MTAYLOR@NOEMANDEAU.COM</b>		<b>Project Manager:</b> <b>MIKE TAYLOR</b> <b>ALPHAQuote #:</b> <b>19745</b> Turn-Around Time Standard <input type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		<b>Regulatory Requirement</b> <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		<b>Site Information</b> Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product: _____			
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<b>For EPH, selection is REQUIRED:</b> <input type="checkbox"/> Category 1 <input type="checkbox"/> Category 2		<b>For VOC, selection is REQUIRED:</b> <input type="checkbox"/> 1,4-Dioxane <input type="checkbox"/> 8011		<b>Other project specific requirements/comments:</b> Please specify Metals or TAL.				Total Bottles	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date    Time		Sample Matrix	Sampler's Initials		
49449-21 -22		IP-1 HR 30 MIN POST TRIAL		9/9/22 1835		W	KS		
		IP-2 HR POST TRIAL		9/9/22 1905		W	KS		
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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			
				Relinquished By:		Date/Time			
				Received By:		Date/Time			
		Tom Dohe		9/12/22 1255		Don Darr			
		Don Darr		9/12/22 1505		Paul Mazzella			
		Paul Mazzella		9/12/22		9/12/22 1600			
		7/9/22		7/22		9/11/22			

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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).

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



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

**Lab Number:** L2249477  
**Report Date:** 10/11/22

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
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.

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**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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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

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
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 %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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## 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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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
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
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			56		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: L2249477-05  
 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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
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

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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
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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  
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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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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
<b>PCB Congeners (NOAA List) - Mansfield Lab</b>						
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  
**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
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
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab</b>											
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
<b>Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1687630-4 QC Sample: L2249449-21 Client ID: DUP Sample</b>						
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
<b>Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1690100-4 QC Sample: L2249449-22 Client ID: DUP Sample</b>						
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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
<b>General Chemistry - Westborough Lab</b>										
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**

<b>Cooler</b>	<b>Custody Seal</b>
D	Absent
F	Absent
M	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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  
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**Report Date:** 10/11/22

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
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)

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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

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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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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

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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**

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

 <b>NEW JERSEY CHAIN OF CUSTODY</b> 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	<b>Service Centers</b> 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		
	<b>Project Information</b> Project Name: HUDSON 7 RIVER WATER STUDY Project Location: CHELSEA, NY Project # (Use Project name as Project #) <input type="checkbox"/>	<b>Deliverables</b> <input type="checkbox"/> NJ Full / Reduced <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO #			
<b>Client Information</b> Client: Normandeau Address: Phone: 603-319-5013 Mike Fax: 603-334-6397 Taylor 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:	<b>Regulatory Requirement</b> <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	<b>Site Information</b> Is this site impacted by Petroleum? Yes <input type="checkbox"/> Petroleum Product:			
These samples have been previously analyzed by Alpha <input type="checkbox"/> 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.	<b>ANALYSIS</b> PCBs 8082-Low SO4 CL F TSS 2540 82705 in WWS 8270 LVI 1508 SA NJ 8260 TOC TOTAL by TOTAL METALS AR-14-DIOXANES IM - PPS	<b>Sample Filtration</b> <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) 49477-01	Sample ID VESSEL-BASED SAMPLES	Collection Date Time 9-9-22 0815	Sample Matrix W	Sampler's Initials WR	ANALYSIS 2 1 1 2 2 3 3 1 2	Sample Specific Comments
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 <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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 P 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: [Signature] Date/Time: 9-9-22/1045		Received By: Tom DeLo Date/Time: 9/12/22 0715				
Relinquished By: Tom DeLo Date/Time: 9/12/22 1255		Received By: Don Dale Date/Time: 9/12/22 1305				
Relinquished By: Don Dale Date/Time: 9/12/22 1505		Received By: Paul Mazzoella Date/Time: 9/12/22 1605				
Relinquished By: Paul Mazzoella Date/Time: 9/12/22		Received By: [Signature] Date/Time: 9/12/22				

Total Bottles

PCB CONDENSERS - EPA 8270 D / MSDA 79/11. [Signature] 9/12/22 8000