

ANALYTICAL REPORT

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Laboratory Job ID: 630-32573-1

Client Project/Site: South Jersey Port Corp, Camden, NJ

For:

ST Hudson Engineers, Inc.
900 Dudley Avenue
Cherry Hill, New Jersey 08002

Attn: Paul Ferry



Authorized for release by:
6/24/2022 1:18:30 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

Client: ST Hudson Engineers, Inc.

Project/Site: South Jersey Port Corp, Camden, NJ

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Glossary (Continued)

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

1

2

3

4

5

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Case Narrative

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

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Job ID: 630-32573-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative 630-32573-1

Receipt

The samples were received on 5/3/2022 12:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC/MS Semi VOA

Method 8270E_LL: The following samples were diluted due to the nature of the sample matrix: SC-2 COMPOSITE (C3 + C4) (630-32573-4) and SC-5 COMPOSITE (C10 + C11) (630-32573-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 8082A_LL: Surrogate recovery for the following samples were outside control limits: SC-2 COMPOSITE (C3 + C4) (630-32573-4) and SC-5 COMPOSITE (C10 + C11) (630-32573-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 8081B_LL: The following samples were diluted due to the nature of the sample matrix: SC-2 COMPOSITE (C3 + C4) (630-32573-4) and SC-5 COMPOSITE (C10 + C11) (630-32573-5) at 5x. Elevated reporting limits (RLs) are provided.

Method 8081B_LL: Surrogate DCB Decachlorobiphenyl (Surr) recovery for the following samples were outside control limits on one or both columns: SC-2 COMPOSITE (C3 + C4) (630-32573-4) and SC-5 COMPOSITE (C10 + C11) (630-32573-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6020B: The continuing calibration blank (CCB) associated with batch 180-399861 recovered above the upper control limit for aluminum. The samples associated with this CCB were 10X the CCB concentration for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCB 180-399861/196) and (LCS 180-399173/2-A).

Method 6020B: The continuing calibration blank (CCB) associated with batch 180-399861 recovered above the upper control limit for aluminum, iron and manganese. The samples associated with this CCB were 10X the CCB concentration for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SC-5 COMPOSITE (C10 + C11) (630-32573-5), (CCB 180-399861/207), (630-32238-B-9-J), (630-32238-B-9-K MS), (630-32238-B-9-L MSD), (630-32238-B-9-J PDS) and (630-32238-B-9-J SD ^5).

Method 6020B: The continuing calibration blank (CCB) associated with batch 180-399861 recovered above the upper control limit for aluminum. The samples associated with this CCB were batch QC for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCB 180-399861/223) and (MB 180-399173/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 7196A: The following samples were diluted due to the nature of the sample matrix: SC-2 COMPOSITE (C3 + C4) (630-32573-4) and SC-5 COMPOSITE (C10 + C11) (630-32573-5). Elevated reporting limits (RLs) are provided.

Method 9014: The following samples were assumed to contain Sulfide due to sample matrix: SC-2 COMPOSITE (C3 + C4) (630-32573-4) and SC-5 COMPOSITE (C10 + C11) (630-32573-5). The sulfide was treated and removed prior to distillation with 200 uL of bismuth nitrate

Case Narrative

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Job ID: 630-32573-1 (Continued)

Laboratory: Eurofins Environment Testing Philadelphia, LLC (Continued)

solution.

Method Lloyd_Kahn_Mod: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis. C-4 GRAB (630-32573-1), C-10 GRAB (630-32573-2), C-11 GRAB (630-32573-3), (630-32573-A-2 MS) and (630-32573-A-2 MSD)

Method Lloyd_Kahn_Mod: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis. SC-2 COMPOSITE (C3 + C4) (630-32573-4), (180-137710-A-2), (180-137710-A-2 MS) and (180-137710-A-2 MSD)

Method Lloyd_Kahn_Mod: Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis. SC-5 COMPOSITE (C10 + C11) (630-32573-5), (180-137831-A-1), (180-137831-A-1 MS) and (180-137831-A-1 MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Geotechnical

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: C-4 GRAB

Lab Sample ID: 630-32573-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	56000		2600	2500	mg/Kg	1	✱	EPA-Lloyd Kahn	Total/NA
Moisture Content	174.0				%	1		D2216-90	Total/NA
Gravel	0.2				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	13.1				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	0.3				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	0.9				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	11.9				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Silt	60.5				%	1		D422	Total/NA
Clay	26.2				%	1		D422	Total/NA
Sieve Size #4 - Percent Finer	99.8				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	99.5				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	99.1				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	98.6				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	97.7				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	95.4				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	95.4				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	86.7				% Passing	1		D422	Total/NA
Hydrometer Reading 1 - Percent Finer	65.8				% Passing	1		D422	Total/NA
Hydrometer Reading 2 - Percent Finer	51.3				% Passing	1		D422	Total/NA
Hydrometer Reading 3 - Percent Finer	39.4				% Passing	1		D422	Total/NA
Hydrometer Reading 4 - Percent Finer	31.5				% Passing	1		D422	Total/NA
Hydrometer Reading 5 - Percent Finer	26.2				% Passing	1		D422	Total/NA
Hydrometer Reading 6 - Percent Finer	21.3				% Passing	1		D422	Total/NA
Hydrometer Reading 7 - Percent Finer	11.6				% Passing	1		D422	Total/NA

Client Sample ID: C-10 GRAB

Lab Sample ID: 630-32573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	49000		2800	2700	mg/Kg	1	✱	EPA-Lloyd Kahn	Total/NA
Moisture Content	186.2				%	1		D2216-90	Total/NA
Gravel	0.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	3.3				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	0.4				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	0.6				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	2.3				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Silt	61.0				%	1		D422	Total/NA
Clay	35.7				%	1		D422	Total/NA
Sieve Size #4 - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	99.6				% Passing	1		D422	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: C-10 GRAB (Continued)

Lab Sample ID: 630-32573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sieve Size #20 - Percent Finer	99.3				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	99.0				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	98.7				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	98.4				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	98.2				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	96.7				% Passing	1		D422	Total/NA
Hydrometer Reading 1 - Percent Finer	84.7				% Passing	1		D422	Total/NA
Hydrometer Reading 2 - Percent Finer	68.4				% Passing	1		D422	Total/NA
Hydrometer Reading 3 - Percent Finer	53.6				% Passing	1		D422	Total/NA
Hydrometer Reading 4 - Percent Finer	43.8				% Passing	1		D422	Total/NA
Hydrometer Reading 5 - Percent Finer	35.7				% Passing	1		D422	Total/NA
Hydrometer Reading 6 - Percent Finer	27.9				% Passing	1		D422	Total/NA
Hydrometer Reading 7 - Percent Finer	17.7				% Passing	1		D422	Total/NA

Client Sample ID: C-11 GRAB

Lab Sample ID: 630-32573-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	53000		2600	2600	mg/Kg	1	☆	EPA-Lloyd Kahn	Total/NA
Moisture Content	174.2				%	1		D2216-90	Total/NA
Gravel	0.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	3.0				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	0.0				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	0.5				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	2.5				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Silt	68.1				%	1		D422	Total/NA
Clay	28.9				%	1		D422	Total/NA
Sieve Size #4 - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	99.9				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	99.5				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	99.3				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	99.0				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	99.0				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	97.0				% Passing	1		D422	Total/NA
Hydrometer Reading 1 - Percent Finer	78.4				% Passing	1		D422	Total/NA
Hydrometer Reading 2 - Percent Finer	58.0				% Passing	1		D422	Total/NA
Hydrometer Reading 3 - Percent Finer	44.9				% Passing	1		D422	Total/NA
Hydrometer Reading 4 - Percent Finer	34.7				% Passing	1		D422	Total/NA
Hydrometer Reading 5 - Percent Finer	28.9				% Passing	1		D422	Total/NA
Hydrometer Reading 6 - Percent Finer	22.0				% Passing	1		D422	Total/NA
Hydrometer Reading 7 - Percent Finer	12.8				% Passing	1		D422	Total/NA

Client Sample ID: SC-2 COMPOSITE (C3 + C4)

Lab Sample ID: 630-32573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.062		0.031	0.0075	mg/Kg	4	☆	EPA 8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-2 COMPOSITE (C3 + C4) (Continued)

Lab Sample ID: 630-32573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.067		0.031	0.0090	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Acenaphthylene	0.043		0.031	0.0069	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Anthracene	0.094		0.031	0.0081	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzaldehyde	0.024	J	0.31	0.019	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[a]anthracene	0.18		0.031	0.014	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[b]fluoranthene	0.29		0.031	0.0077	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[k]fluoranthene	0.12		0.031	0.0094	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[g,h,i]perylene	0.13		0.031	0.0068	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[a]pyrene	0.21		0.031	0.014	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Bis(2-ethylhexyl) phthalate	0.21	J	1.5	0.17	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Carbazole	0.020	J	0.031	0.0073	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Chrysene	0.23		0.031	0.017	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Dibenz(a,h)anthracene	0.032		0.031	0.020	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Fluoranthene	0.36		0.031	0.0083	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Fluorene	0.058		0.031	0.0061	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.13		0.031	0.016	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Naphthalene	0.071		0.031	0.0061	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Phenanthrene	0.26		0.031	0.0084	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Pyrene	0.29		0.031	0.0074	mg/Kg	4	✱	EPA 8270E LL	Total/NA
cis-Chlordane (2C)	0.00047	J p	0.00049	0.00012	mg/Kg	5	✱	EPA 8081B LL	Total/NA
trans-Chlordane (1C)	0.00080	p	0.00049	0.00011	mg/Kg	5	✱	EPA 8081B LL	Total/NA
Chlordane (technical) (2C)	0.0069		0.0049	0.0021	mg/Kg	5	✱	EPA 8081B LL	Total/NA
4,4'-DDD (1C)	0.0057		0.00049	0.00010	mg/Kg	5	✱	EPA 8081B LL	Total/NA
4,4'-DDE (2C)	0.011		0.00049	0.000099	mg/Kg	5	✱	EPA 8081B LL	Total/NA
Heptachlor epoxide (2C)	0.00012	J p	0.00049	0.00012	mg/Kg	5	✱	EPA 8081B LL	Total/NA
PCB-1254 (2C)	0.051		0.00098	0.00030	mg/Kg	1	✱	EPA 8082A	Total/NA
Aluminum	10000		9.5	6.7	mg/Kg	1	✱	EPA 6020B	Total/NA
Arsenic	6.7		0.16	0.092	mg/Kg	1	✱	EPA 6020B	Total/NA
Barium	130		1.6	0.97	mg/Kg	1	✱	EPA 6020B	Total/NA
Antimony	0.54		0.32	0.17	mg/Kg	1	✱	EPA 6020B	Total/NA
Beryllium	0.96		0.16	0.11	mg/Kg	1	✱	EPA 6020B	Total/NA
Cadmium	1.3		0.16	0.089	mg/Kg	1	✱	EPA 6020B	Total/NA
Calcium	2900		79	32	mg/Kg	1	✱	EPA 6020B	Total/NA
Chromium	30		0.32	0.28	mg/Kg	1	✱	EPA 6020B	Total/NA
Cobalt	12		0.079	0.057	mg/Kg	1	✱	EPA 6020B	Total/NA
Copper	37		0.47	0.33	mg/Kg	1	✱	EPA 6020B	Total/NA
Magnesium	3100		79	7.2	mg/Kg	1	✱	EPA 6020B	Total/NA
Manganese	1200		0.79	0.68	mg/Kg	1	✱	EPA 6020B	Total/NA
Iron	23000		7.9	7.6	mg/Kg	1	✱	EPA 6020B	Total/NA
Lead	47		0.16	0.10	mg/Kg	1	✱	EPA 6020B	Total/NA
Potassium	1400		79	23	mg/Kg	1	✱	EPA 6020B	Total/NA
Nickel	19		0.16	0.15	mg/Kg	1	✱	EPA 6020B	Total/NA
Selenium	0.68	J	0.79	0.19	mg/Kg	1	✱	EPA 6020B	Total/NA
Sodium	110		79	40	mg/Kg	1	✱	EPA 6020B	Total/NA
Silver	0.33		0.16	0.044	mg/Kg	1	✱	EPA 6020B	Total/NA
Thallium	0.16		0.16	0.11	mg/Kg	1	✱	EPA 6020B	Total/NA
Vanadium	24		0.16	0.15	mg/Kg	1	✱	EPA 6020B	Total/NA
Zinc	240		0.79	0.76	mg/Kg	1	✱	EPA 6020B	Total/NA
Mercury	0.18		0.030	0.020	mg/Kg	1	✱	EPA 7471B	Total/NA
Cr (III)	30		0.50	0.21	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.87		0.46	0.35	mg/Kg	1	✱	EPA 9014	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-2 COMPOSITE (C3 + C4) (Continued)

Lab Sample ID: 630-32573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	38000		2400	2300	mg/Kg	1	✱	EPA-Lloyd Kahn	Total/NA
Moisture Content	153.7				%	1		D2216-90	Total/NA
Gravel	0.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	17.2				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	0.2				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	1.7				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	15.3				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Silt	56.7				%	1		D422	Total/NA
Clay	26.1				%	1		D422	Total/NA
Sieve Size #4 - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	99.8				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	99.3				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	98.1				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	96.4				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	94.5				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	93.1				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	82.8				% Passing	1		D422	Total/NA
Hydrometer Reading 1 - Percent Finer	61.7				% Passing	1		D422	Total/NA
Hydrometer Reading 2 - Percent Finer	51.2				% Passing	1		D422	Total/NA
Hydrometer Reading 3 - Percent Finer	40.6				% Passing	1		D422	Total/NA
Hydrometer Reading 4 - Percent Finer	34.0				% Passing	1		D422	Total/NA
Hydrometer Reading 5 - Percent Finer	26.1				% Passing	1		D422	Total/NA
Hydrometer Reading 6 - Percent Finer	18.6				% Passing	1		D422	Total/NA
Hydrometer Reading 7 - Percent Finer	11.6				% Passing	1		D422	Total/NA

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.023	J	0.037	0.0089	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Acenaphthene	0.020	J	0.037	0.011	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Acenaphthylene	0.043		0.037	0.0081	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Anthracene	0.081		0.037	0.0096	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzaldehyde	0.029	J	0.37	0.023	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[a]anthracene	0.19		0.037	0.017	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[b]fluoranthene	0.36		0.037	0.0091	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[k]fluoranthene	0.12		0.037	0.011	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[g,h,i]perylene	0.14		0.037	0.0080	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Benzo[a]pyrene	0.24		0.037	0.016	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Bis(2-ethylhexyl) phthalate	0.30	J	1.8	0.20	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Carbazole	0.025	J	0.037	0.0087	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Chrysene	0.25		0.037	0.021	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Dibenz(a,h)anthracene	0.044		0.037	0.024	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Fluoranthene	0.38		0.037	0.0098	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Fluorene	0.030	J	0.037	0.0073	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	0.14		0.037	0.018	mg/Kg	4	✱	EPA 8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-5 COMPOSITE (C10 + C11) (Continued)

Lab Sample ID: 630-32573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.040		0.037	0.0072	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Phenanthrene	0.19		0.037	0.0099	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Pyrene	0.32		0.037	0.0088	mg/Kg	4	✱	EPA 8270E LL	Total/NA
Aldrin (1C)	0.00018	J p	0.00058	0.00018	mg/Kg	5	✱	EPA 8081B LL	Total/NA
cis-Chlordane (1C)	0.0014		0.00058	0.00014	mg/Kg	5	✱	EPA 8081B LL	Total/NA
trans-Chlordane (1C)	0.0012	p	0.00058	0.00013	mg/Kg	5	✱	EPA 8081B LL	Total/NA
Chlordane (technical) (2C)	0.010		0.0058	0.0025	mg/Kg	5	✱	EPA 8081B LL	Total/NA
4,4'-DDD (1C)	0.0063		0.00058	0.00012	mg/Kg	5	✱	EPA 8081B LL	Total/NA
4,4'-DDE (2C)	0.016		0.00058	0.00012	mg/Kg	5	✱	EPA 8081B LL	Total/NA
Heptachlor epoxide (2C)	0.00015	J p	0.00058	0.00015	mg/Kg	5	✱	EPA 8081B LL	Total/NA
PCB-1254 (2C)	0.062		0.0011	0.00034	mg/Kg	1	✱	EPA 8082A	Total/NA
Aluminum	14000	^2	8.4	5.9	mg/Kg	1	✱	EPA 6020B	Total/NA
Arsenic	10		0.14	0.081	mg/Kg	1	✱	EPA 6020B	Total/NA
Barium	180		1.4	0.85	mg/Kg	1	✱	EPA 6020B	Total/NA
Antimony	0.71		0.28	0.15	mg/Kg	1	✱	EPA 6020B	Total/NA
Beryllium	1.5		0.14	0.10	mg/Kg	1	✱	EPA 6020B	Total/NA
Cadmium	1.8		0.14	0.078	mg/Kg	1	✱	EPA 6020B	Total/NA
Calcium	4100		70	28	mg/Kg	1	✱	EPA 6020B	Total/NA
Chromium	42		0.28	0.25	mg/Kg	1	✱	EPA 6020B	Total/NA
Cobalt	18		0.070	0.050	mg/Kg	1	✱	EPA 6020B	Total/NA
Copper	55		0.42	0.29	mg/Kg	1	✱	EPA 6020B	Total/NA
Magnesium	4400		70	6.3	mg/Kg	1	✱	EPA 6020B	Total/NA
Manganese	1700	^2	0.70	0.60	mg/Kg	1	✱	EPA 6020B	Total/NA
Iron	33000	^2	7.0	6.7	mg/Kg	1	✱	EPA 6020B	Total/NA
Lead	71		0.14	0.092	mg/Kg	1	✱	EPA 6020B	Total/NA
Potassium	1700		70	20	mg/Kg	1	✱	EPA 6020B	Total/NA
Nickel	29		0.14	0.13	mg/Kg	1	✱	EPA 6020B	Total/NA
Selenium	0.93		0.70	0.17	mg/Kg	1	✱	EPA 6020B	Total/NA
Sodium	180		70	36	mg/Kg	1	✱	EPA 6020B	Total/NA
Silver	0.45		0.14	0.039	mg/Kg	1	✱	EPA 6020B	Total/NA
Thallium	0.20		0.14	0.098	mg/Kg	1	✱	EPA 6020B	Total/NA
Vanadium	34		0.14	0.13	mg/Kg	1	✱	EPA 6020B	Total/NA
Zinc	350		0.70	0.67	mg/Kg	1	✱	EPA 6020B	Total/NA
Mercury	0.21		0.043	0.028	mg/Kg	1	✱	EPA 7471B	Total/NA
Cr (III)	42		0.50	0.21	mg/Kg	1		7196A	Total/NA
Cyanide, Total	0.91		0.51	0.39	mg/Kg	1	✱	EPA 9014	Total/NA
Total Organic Carbon - Duplicates	53000		2800	2700	mg/Kg	1	✱	EPA-Lloyd Kahn	Total/NA
Moisture Content	183.9				%	1		D2216-90	Total/NA
Gravel	0.0				%	1		D422	Total/NA
Sieve Size 3 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sand	2.3				%	1		D422	Total/NA
Sieve Size 2 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Coarse Sand	0.0				%	1		D422	Total/NA
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Medium Sand	0.1				%	1		D422	Total/NA
Sieve Size 1 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Fine Sand	2.2				%	1		D422	Total/NA
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing	1		D422	Total/NA
Silt	61.4				%	1		D422	Total/NA
Clay	36.3				%	1		D422	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Detection Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-5 COMPOSITE (C10 + C11) (Continued)

Lab Sample ID: 630-32573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sieve Size #4 - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #10 - Percent Finer	100.0				% Passing	1		D422	Total/NA
Sieve Size #20 - Percent Finer	99.9				% Passing	1		D422	Total/NA
Sieve Size #40 - Percent Finer	99.9				% Passing	1		D422	Total/NA
Sieve Size #60 - Percent Finer	99.6				% Passing	1		D422	Total/NA
Sieve Size #80 - Percent Finer	99.4				% Passing	1		D422	Total/NA
Sieve Size #100 - Percent Finer	99.0				% Passing	1		D422	Total/NA
Sieve Size #200 - Percent Finer	97.7				% Passing	1		D422	Total/NA
Hydrometer Reading 1 - Percent Finer	85.9				% Passing	1		D422	Total/NA
Hydrometer Reading 2 - Percent Finer	67.6				% Passing	1		D422	Total/NA
Hydrometer Reading 3 - Percent Finer	54.6				% Passing	1		D422	Total/NA
Hydrometer Reading 4 - Percent Finer	44.1				% Passing	1		D422	Total/NA
Hydrometer Reading 5 - Percent Finer	36.3				% Passing	1		D422	Total/NA
Hydrometer Reading 6 - Percent Finer	24.9				% Passing	1		D422	Total/NA
Hydrometer Reading 7 - Percent Finer	15.3				% Passing	1		D422	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: C-4 GRAB

Lab Sample ID: 630-32573-1

Date Collected: 04/29/22 08:08

Matrix: Sediment

Date Received: 05/03/22 12:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	61.7		0.1	0.1	%			05/10/22 06:49	1
Percent Solids	38.3		0.1	0.1	%			05/10/22 06:49	1

Method: D2216-90 - Water (Moisture) Content

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Moisture Content	174.0				%			06/14/22 19:57	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	0.2				%			06/14/22 19:58	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			06/14/22 19:58	1
Sand	13.1				%			06/14/22 19:58	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			06/14/22 19:58	1
Coarse Sand	0.3				%			06/14/22 19:58	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			06/14/22 19:58	1
Medium Sand	0.9				%			06/14/22 19:58	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			06/14/22 19:58	1
Fine Sand	11.9				%			06/14/22 19:58	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			06/14/22 19:58	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			06/14/22 19:58	1
Silt	60.5				%			06/14/22 19:58	1
Clay	26.2				%			06/14/22 19:58	1
Sieve Size #4 - Percent Finer	99.8				% Passing			06/14/22 19:58	1
Sieve Size #10 - Percent Finer	99.5				% Passing			06/14/22 19:58	1
Sieve Size #20 - Percent Finer	99.1				% Passing			06/14/22 19:58	1
Sieve Size #40 - Percent Finer	98.6				% Passing			06/14/22 19:58	1
Sieve Size #60 - Percent Finer	97.7				% Passing			06/14/22 19:58	1
Sieve Size #80 - Percent Finer	95.4				% Passing			06/14/22 19:58	1
Sieve Size #100 - Percent Finer	95.4				% Passing			06/14/22 19:58	1
Sieve Size #200 - Percent Finer	86.7				% Passing			06/14/22 19:58	1
Hydrometer Reading 1 - Percent Finer	65.8				% Passing			06/14/22 19:58	1
Hydrometer Reading 2 - Percent Finer	51.3				% Passing			06/14/22 19:58	1
Hydrometer Reading 3 - Percent Finer	39.4				% Passing			06/14/22 19:58	1
Hydrometer Reading 4 - Percent Finer	31.5				% Passing			06/14/22 19:58	1
Hydrometer Reading 5 - Percent Finer	26.2				% Passing			06/14/22 19:58	1
Hydrometer Reading 6 - Percent Finer	21.3				% Passing			06/14/22 19:58	1
Hydrometer Reading 7 - Percent Finer	11.6				% Passing			06/14/22 19:58	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: C-4 GRAB

Lab Sample ID: 630-32573-1

Date Collected: 04/29/22 08:08

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 38.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	56000		2600	2500	mg/Kg	☆		05/11/22 13:42	1

Client Sample ID: C-10 GRAB

Lab Sample ID: 630-32573-2

Date Collected: 04/29/22 08:58

Matrix: Sediment

Date Received: 05/03/22 12:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	64.6		0.1	0.1	%			05/10/22 06:49	1
Percent Solids	35.4		0.1	0.1	%			05/10/22 06:49	1

Method: D2216-90 - Water (Moisture) Content

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Moisture Content	186.2				%			06/14/22 19:57	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	0.0				%			06/14/22 20:01	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			06/14/22 20:01	1
Sand	3.3				%			06/14/22 20:01	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			06/14/22 20:01	1
Coarse Sand	0.4				%			06/14/22 20:01	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			06/14/22 20:01	1
Medium Sand	0.6				%			06/14/22 20:01	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			06/14/22 20:01	1
Fine Sand	2.3				%			06/14/22 20:01	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			06/14/22 20:01	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			06/14/22 20:01	1
Silt	61.0				%			06/14/22 20:01	1
Clay	35.7				%			06/14/22 20:01	1
Sieve Size #4 - Percent Finer	100.0				% Passing			06/14/22 20:01	1
Sieve Size #10 - Percent Finer	99.6				% Passing			06/14/22 20:01	1
Sieve Size #20 - Percent Finer	99.3				% Passing			06/14/22 20:01	1
Sieve Size #40 - Percent Finer	99.0				% Passing			06/14/22 20:01	1
Sieve Size #60 - Percent Finer	98.7				% Passing			06/14/22 20:01	1
Sieve Size #80 - Percent Finer	98.4				% Passing			06/14/22 20:01	1
Sieve Size #100 - Percent Finer	98.2				% Passing			06/14/22 20:01	1
Sieve Size #200 - Percent Finer	96.7				% Passing			06/14/22 20:01	1
Hydrometer Reading 1 - Percent Finer	84.7				% Passing			06/14/22 20:01	1
Hydrometer Reading 2 - Percent Finer	68.4				% Passing			06/14/22 20:01	1
Hydrometer Reading 3 - Percent Finer	53.6				% Passing			06/14/22 20:01	1
Hydrometer Reading 4 - Percent Finer	43.8				% Passing			06/14/22 20:01	1
Hydrometer Reading 5 - Percent Finer	35.7				% Passing			06/14/22 20:01	1
Hydrometer Reading 6 - Percent Finer	27.9				% Passing			06/14/22 20:01	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: C-10 GRAB

Lab Sample ID: 630-32573-2

Date Collected: 04/29/22 08:58

Matrix: Sediment

Date Received: 05/03/22 12:55

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydrometer Reading 7 - Percent Finer	17.7				% Passing			06/14/22 20:01	1

Client Sample ID: C-10 GRAB

Lab Sample ID: 630-32573-2

Date Collected: 04/29/22 08:58

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	49000		2800	2700	mg/Kg	☆		05/11/22 13:59	1

Client Sample ID: C-11 GRAB

Lab Sample ID: 630-32573-3

Date Collected: 04/29/22 09:24

Matrix: Sediment

Date Received: 05/03/22 12:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	61.9		0.1	0.1	%			05/10/22 06:49	1
Percent Solids	38.1		0.1	0.1	%			05/10/22 06:49	1

Method: D2216-90 - Water (Moisture) Content

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Moisture Content	174.2				%			06/14/22 19:57	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	0.0				%			06/14/22 20:03	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			06/14/22 20:03	1
Sand	3.0				%			06/14/22 20:03	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			06/14/22 20:03	1
Coarse Sand	0.0				%			06/14/22 20:03	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			06/14/22 20:03	1
Medium Sand	0.5				%			06/14/22 20:03	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			06/14/22 20:03	1
Fine Sand	2.5				%			06/14/22 20:03	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			06/14/22 20:03	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			06/14/22 20:03	1
Silt	68.1				%			06/14/22 20:03	1
Clay	28.9				%			06/14/22 20:03	1
Sieve Size #4 - Percent Finer	100.0				% Passing			06/14/22 20:03	1
Sieve Size #10 - Percent Finer	100.0				% Passing			06/14/22 20:03	1
Sieve Size #20 - Percent Finer	99.9				% Passing			06/14/22 20:03	1
Sieve Size #40 - Percent Finer	99.5				% Passing			06/14/22 20:03	1
Sieve Size #60 - Percent Finer	99.3				% Passing			06/14/22 20:03	1
Sieve Size #80 - Percent Finer	99.0				% Passing			06/14/22 20:03	1
Sieve Size #100 - Percent Finer	99.0				% Passing			06/14/22 20:03	1
Sieve Size #200 - Percent Finer	97.0				% Passing			06/14/22 20:03	1
Hydrometer Reading 1 - Percent Finer	78.4				% Passing			06/14/22 20:03	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: C-11 GRAB

Lab Sample ID: 630-32573-3

Date Collected: 04/29/22 09:24

Matrix: Sediment

Date Received: 05/03/22 12:55

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydrometer Reading 2 - Percent Finer	58.0				% Passing			06/14/22 20:03	1
Hydrometer Reading 3 - Percent Finer	44.9				% Passing			06/14/22 20:03	1
Hydrometer Reading 4 - Percent Finer	34.7				% Passing			06/14/22 20:03	1
Hydrometer Reading 5 - Percent Finer	28.9				% Passing			06/14/22 20:03	1
Hydrometer Reading 6 - Percent Finer	22.0				% Passing			06/14/22 20:03	1
Hydrometer Reading 7 - Percent Finer	12.8				% Passing			06/14/22 20:03	1

Client Sample ID: C-11 GRAB

Lab Sample ID: 630-32573-3

Date Collected: 04/29/22 09:24

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 38.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	53000		2600	2600	mg/Kg	☆		05/11/22 14:49	1

Client Sample ID: SC-2 COMPOSITE (C3 + C4)

Lab Sample ID: 630-32573-4

Date Collected: 05/03/22 12:30

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 42.2

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.15	U	0.15	0.057	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
1,2-Dichlorobenzene	0.15	U	0.15	0.050	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
1,2,4,5-Tetrachlorobenzene	150	U	150	62	ug/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
1,3-Dichlorobenzene	0.15	U	0.15	0.052	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
1,4-Dichlorobenzene	0.15	U	0.15	0.057	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
1,4-Dioxane	0.31	U	0.31	0.049	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
1,2-Diphenylhydrazine(as Azobenzene)	0.15	U	0.15	0.070	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
1,2,4-Trichlorobenzene	0.15	U	0.15	0.048	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2-Chloronaphthalene	0.031	U	0.031	0.0072	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2-Chlorophenol	0.15	U	0.15	0.057	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2,3,4,6-Tetrachlorophenol	150	U	150	65	ug/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2,4-Dichlorophenol	0.031	U	0.031	0.012	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2,4-Dimethylphenol	0.15	U	0.15	0.053	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2,4-Dinitrophenol	1.5	U	1.5	0.97	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2,4-Dinitrotoluene	0.15	U	0.15	0.093	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2,6-Dinitrotoluene	0.15	U	0.15	0.061	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2-Methylnaphthalene	0.062		0.031	0.0075	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2-Methylphenol	0.15	U	0.15	0.045	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Methylphenol, 3 & 4	0.15	U	0.15	0.046	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2-Nitroaniline	0.80	U	0.80	0.071	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
3-Nitroaniline	0.80	U	0.80	0.040	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
4-Nitroaniline	0.80	U	0.80	0.058	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2-Nitrophenol	0.15	U	0.15	0.058	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
4-Nitrophenol	0.80	U	0.80	0.11	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-2 COMPOSITE (C3 + C4)

Lab Sample ID: 630-32573-4

Date Collected: 05/03/22 12:30

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 42.2

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	0.031	U	0.031	0.012	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2,4,5-Trichlorophenol	0.15	U	0.15	0.054	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
2,4,6-Trichlorophenol	0.15	U	0.15	0.052	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
4-Chloro-3-methylphenol	0.15	U	0.15	0.055	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
4-Chlorophenyl phenyl ether	0.15	U	0.15	0.052	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
4,6-Dinitro-2-methylphenol	0.80	U	0.80	0.27	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Cresols, Total	0.31	U	0.31	0.089	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Acenaphthene	0.067		0.031	0.0090	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Acenaphthylene	0.043		0.031	0.0069	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Acetophenone	0.31	U	0.31	0.055	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Aniline	0.15	U	0.15	0.040	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Anthracene	0.094		0.031	0.0081	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Atrazine	0.31	U	0.31	0.069	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Benzaldehyde	0.024	J	0.31	0.019	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Benzidine	3.1	U	3.1	1.2	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Benzo[a]anthracene	0.18		0.031	0.014	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Benzo[b]fluoranthene	0.29		0.031	0.0077	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Benzo[k]fluoranthene	0.12		0.031	0.0094	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Benzoic acid	0.80	U	0.80	0.35	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Benzo[g,h,i]perylene	0.13		0.031	0.0068	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Benzo[a]pyrene	0.21		0.031	0.014	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Bis(2-chloroethoxy)methane	0.15	U	0.15	0.057	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Bis(2-chloroethyl)ether	0.031	U	0.031	0.0057	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Bis(2-ethylhexyl) phthalate	0.21	J	1.5	0.17	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
4-Bromophenyl phenyl ether	0.15	U	0.15	0.066	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Butyl benzyl phthalate	0.15	U	0.15	0.11	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Caprolactam	0.80	U	0.80	0.10	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Carbazole	0.020	J	0.031	0.0073	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
4-Chloroaniline	0.15	U	0.15	0.041	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Chrysene	0.23		0.031	0.017	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Dibenz(a,h)anthracene	0.032		0.031	0.020	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Dibenzofuran	0.15	U	0.15	0.057	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Di-n-butyl phthalate	0.15	U	0.15	0.069	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Di-n-octyl phthalate	0.15	U	0.15	0.091	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Diethyl phthalate	0.15	U	0.15	0.055	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Dimethyl phthalate	0.15	U	0.15	0.062	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Fluoranthene	0.36		0.031	0.0083	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Fluorene	0.058		0.031	0.0061	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Hexachlorobenzene	0.031	U	0.031	0.011	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Hexachlorobutadiene	0.031	U	0.031	0.0092	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Hexachlorocyclopentadiene	0.15	U	0.15	0.016	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Hexachloroethane	0.15	U	0.15	0.055	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Indeno[1,2,3-cd]pyrene	0.13		0.031	0.016	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Isophorone	0.15	U	0.15	0.059	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Naphthalene	0.071		0.031	0.0061	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
Nitrobenzene	0.31	U	0.31	0.057	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
N-Nitrosodimethylamine	0.15	U	0.15	0.059	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
N-Nitrosodiphenylamine	0.15	U	0.15	0.052	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4
N-Nitrosodi-n-propylamine	0.031	U	0.031	0.011	mg/Kg	☆	05/16/22 15:02	05/18/22 15:26	4

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-2 COMPOSITE (C3 + C4)

Lab Sample ID: 630-32573-4

Date Collected: 05/03/22 12:30

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 42.2

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.80	U	0.80	0.25	mg/Kg	✱	05/16/22 15:02	05/18/22 15:26	4
Phenanthrene	0.26		0.031	0.0084	mg/Kg	✱	05/16/22 15:02	05/18/22 15:26	4
Phenol	0.15	U	0.15	0.047	mg/Kg	✱	05/16/22 15:02	05/18/22 15:26	4
Pyrene	0.29		0.031	0.0074	mg/Kg	✱	05/16/22 15:02	05/18/22 15:26	4
Pyridine	0.31	U	0.31	0.084	mg/Kg	✱	05/16/22 15:02	05/18/22 15:26	4
Benzyl alcohol	0.15	U	0.15	0.011	mg/Kg	✱	05/16/22 15:02	05/18/22 15:26	4
3,3'-Dichlorobenzidine	0.15	U	0.15	0.15	mg/Kg	✱	05/16/22 15:02	05/18/22 15:26	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	55		35 - 105	05/16/22 15:02	05/18/22 15:26	4
2-Fluorophenol (Surr)	45		32 - 105	05/16/22 15:02	05/18/22 15:26	4
2,4,6-Tribromophenol (Surr)	32		20 - 119	05/16/22 15:02	05/18/22 15:26	4
Nitrobenzene-d5 (Surr)	45		34 - 109	05/16/22 15:02	05/18/22 15:26	4
Phenol-d5 (Surr)	46		34 - 105	05/16/22 15:02	05/18/22 15:26	4
Terphenyl-d14 (Surr)	36		20 - 117	05/16/22 15:02	05/18/22 15:26	4

Method: EPA 8081B LL - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	0.00049	U	0.00049	0.00015	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
alpha-BHC (1C)	0.00049	U	0.00049	0.00012	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
beta-BHC (1C)	0.00049	U	0.00049	0.00013	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
delta-BHC (1C)	0.00049	U	0.00049	0.00015	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
gamma-BHC (Lindane) (1C)	0.00049	U	0.00049	0.00013	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
cis-Chlordane (2C)	0.00047	J p	0.00049	0.00012	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
trans-Chlordane (1C)	0.00080	p	0.00049	0.00011	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Chlordane (technical) (2C)	0.0069		0.0049	0.0021	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
4,4'-DDD (1C)	0.0057		0.00049	0.00010	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
4,4'-DDE (2C)	0.011		0.00049	0.000099	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
4,4'-DDT (1C)	0.00049	U	0.00049	0.00035	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Dieldrin (1C)	0.00049	U	0.00049	0.00012	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Endosulfan I (1C)	0.00049	U	0.00049	0.00013	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Endosulfan II (1C)	0.00049	U	0.00049	0.00011	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Endosulfan sulfate (1C)	0.00049	U	0.00049	0.00022	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Endrin (1C)	0.00049	U	0.00049	0.000091	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Endrin aldehyde (1C)	0.00049	U	0.00049	0.00017	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Endrin ketone (1C)	0.00049	U	0.00049	0.000067	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Heptachlor (1C)	0.00049	U	0.00049	0.00015	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Heptachlor epoxide (2C)	0.00012	J p	0.00049	0.00012	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Methoxychlor (1C)	0.00049	U	0.00049	0.00019	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Mirex (1C)	0.00049	U	0.00049	0.000091	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Toxaphene (1C)	0.019	U	0.019	0.013	mg/Kg	✱	05/06/22 19:20	05/20/22 10:21	5
Endosulfan, Total (1C)	0.97	U	0.97	0.24	ug/Kg	✱	05/06/22 19:20	05/20/22 10:21	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	29		10 - 105	05/06/22 19:20	05/20/22 10:21	5
Tetrachloro-m-xylene (Surr) (2C)	36		10 - 105	05/06/22 19:20	05/20/22 10:21	5
DCB Decachlorobiphenyl (Surr) (1C)	94		25 - 107	05/06/22 19:20	05/20/22 10:21	5
DCB Decachlorobiphenyl (Surr) (2C)	134	S1+	25 - 107	05/06/22 19:20	05/20/22 10:21	5

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-2 COMPOSITE (C3 + C4)

Lab Sample ID: 630-32573-4

Date Collected: 05/03/22 12:30

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 42.2

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	0.00098	U	0.00098	0.00032	mg/Kg	✱	05/06/22 14:32	05/12/22 21:27	1
PCB-1221 (1C)	0.00098	U	0.00098	0.00035	mg/Kg	✱	05/06/22 14:32	05/12/22 21:27	1
PCB-1232 (1C)	0.00098	U	0.00098	0.00024	mg/Kg	✱	05/06/22 14:32	05/12/22 21:27	1
PCB-1242 (1C)	0.00098	U	0.00098	0.00014	mg/Kg	✱	05/06/22 14:32	05/12/22 21:27	1
PCB-1248 (1C)	0.00098	U	0.00098	0.00024	mg/Kg	✱	05/06/22 14:32	05/12/22 21:27	1
PCB-1254 (2C)	0.051		0.00098	0.00030	mg/Kg	✱	05/06/22 14:32	05/12/22 21:27	1
PCB-1260 (1C)	0.00098	U	0.00098	0.00028	mg/Kg	✱	05/06/22 14:32	05/12/22 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	80		33 - 126	05/06/22 14:32	05/12/22 21:27	1
Tetrachloro-m-xylene (Surr) (2C)	76		33 - 126	05/06/22 14:32	05/12/22 21:27	1
DCB Decachlorobiphenyl (Surr) (1C)	170		26 - 170	05/06/22 14:32	05/12/22 21:27	1
DCB Decachlorobiphenyl (Surr) (2C)	220	S1+	26 - 170	05/06/22 14:32	05/12/22 21:27	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000		9.5	6.7	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Arsenic	6.7		0.16	0.092	mg/Kg	✱	05/24/22 17:41	05/27/22 19:14	1
Barium	130		1.6	0.97	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Antimony	0.54		0.32	0.17	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Beryllium	0.96		0.16	0.11	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Cadmium	1.3		0.16	0.089	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Calcium	2900		79	32	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Chromium	30		0.32	0.28	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Cobalt	12		0.079	0.057	mg/Kg	✱	05/24/22 17:41	05/27/22 19:14	1
Copper	37		0.47	0.33	mg/Kg	✱	05/24/22 17:41	05/27/22 19:14	1
Magnesium	3100		79	7.2	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Manganese	1200		0.79	0.68	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Iron	23000		7.9	7.6	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Lead	47		0.16	0.10	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Potassium	1400		79	23	mg/Kg	✱	05/24/22 17:41	05/27/22 19:14	1
Nickel	19		0.16	0.15	mg/Kg	✱	05/24/22 17:41	05/27/22 19:14	1
Selenium	0.68	J	0.79	0.19	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Sodium	110		79	40	mg/Kg	✱	05/24/22 17:41	05/27/22 19:14	1
Silver	0.33		0.16	0.044	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Thallium	0.16		0.16	0.11	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Vanadium	24		0.16	0.15	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1
Zinc	240		0.79	0.76	mg/Kg	✱	05/24/22 17:41	05/26/22 21:55	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.030	0.020	mg/Kg	✱	05/26/22 07:09	05/26/22 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	57.8		0.1	0.1	%			05/10/22 06:49	1
Percent Solids	42.2		0.1	0.1	%			05/10/22 06:49	1
Cr (III)	30		0.50	0.21	mg/Kg			05/31/22 09:57	1
Cr (VI)	4.6	U	4.6	2.5	mg/Kg	✱	05/16/22 11:40	05/23/22 12:50	5
Cyanide, Total	0.87		0.46	0.35	mg/Kg	✱	05/10/22 13:45	05/10/22 17:37	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-2 COMPOSITE (C3 + C4)

Lab Sample ID: 630-32573-4

Date Collected: 05/03/22 12:30

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 42.2

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	38000		2400	2300	mg/Kg	☼		05/12/22 20:23	1

Method: D2216-90 - Water (Moisture) Content

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Moisture Content	153.7				%			06/14/22 19:57	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	0.0				%			06/14/22 20:05	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			06/14/22 20:05	1
Sand	17.2				%			06/14/22 20:05	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			06/14/22 20:05	1
Coarse Sand	0.2				%			06/14/22 20:05	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			06/14/22 20:05	1
Medium Sand	1.7				%			06/14/22 20:05	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			06/14/22 20:05	1
Fine Sand	15.3				%			06/14/22 20:05	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			06/14/22 20:05	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			06/14/22 20:05	1
Silt	56.7				%			06/14/22 20:05	1
Clay	26.1				%			06/14/22 20:05	1
Sieve Size #4 - Percent Finer	100.0				% Passing			06/14/22 20:05	1
Sieve Size #10 - Percent Finer	99.8				% Passing			06/14/22 20:05	1
Sieve Size #20 - Percent Finer	99.3				% Passing			06/14/22 20:05	1
Sieve Size #40 - Percent Finer	98.1				% Passing			06/14/22 20:05	1
Sieve Size #60 - Percent Finer	96.4				% Passing			06/14/22 20:05	1
Sieve Size #80 - Percent Finer	94.5				% Passing			06/14/22 20:05	1
Sieve Size #100 - Percent Finer	93.1				% Passing			06/14/22 20:05	1
Sieve Size #200 - Percent Finer	82.8				% Passing			06/14/22 20:05	1
Hydrometer Reading 1 - Percent Finer	61.7				% Passing			06/14/22 20:05	1
Hydrometer Reading 2 - Percent Finer	51.2				% Passing			06/14/22 20:05	1
Hydrometer Reading 3 - Percent Finer	40.6				% Passing			06/14/22 20:05	1
Hydrometer Reading 4 - Percent Finer	34.0				% Passing			06/14/22 20:05	1
Hydrometer Reading 5 - Percent Finer	26.1				% Passing			06/14/22 20:05	1
Hydrometer Reading 6 - Percent Finer	18.6				% Passing			06/14/22 20:05	1
Hydrometer Reading 7 - Percent Finer	11.6				% Passing			06/14/22 20:05	1

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Date Collected: 05/03/22 12:55

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.9

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.18	U	0.18	0.067	mg/Kg	☼	05/16/22 15:02	05/18/22 15:48	4

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Date Collected: 05/03/22 12:55

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.9

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.18	U	0.18	0.059	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
1,2,4,5-Tetrachlorobenzene	180	U	180	73	ug/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
1,3-Dichlorobenzene	0.18	U	0.18	0.061	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
1,4-Dichlorobenzene	0.18	U	0.18	0.068	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
1,4-Dioxane	0.37	U	0.37	0.058	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
1,2-Diphenylhydrazine(as Azobenzene)	0.18	U	0.18	0.082	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
1,2,4-Trichlorobenzene	0.18	U	0.18	0.056	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2-Chloronaphthalene	0.037	U	0.037	0.0085	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2-Chlorophenol	0.18	U	0.18	0.068	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,3,4,6-Tetrachlorophenol	180	U	180	77	ug/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,4-Dichlorophenol	0.037	U	0.037	0.014	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,4-Dimethylphenol	0.18	U	0.18	0.062	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,4-Dinitrophenol	1.8	U	1.8	1.2	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,4-Dinitrotoluene	0.18	U	0.18	0.11	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,6-Dinitrotoluene	0.18	U	0.18	0.072	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2-Methylnaphthalene	0.023	J	0.037	0.0089	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2-Methylphenol	0.18	U	0.18	0.053	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Methylphenol, 3 & 4	0.18	U	0.18	0.054	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2-Nitroaniline	0.94	U	0.94	0.084	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
3-Nitroaniline	0.94	U	0.94	0.047	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
4-Nitroaniline	0.94	U	0.94	0.069	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2-Nitrophenol	0.18	U	0.18	0.068	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
4-Nitrophenol	0.94	U	0.94	0.13	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,2'-oxybis[1-chloropropane]	0.037	U	0.037	0.014	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,4,5-Trichlorophenol	0.18	U	0.18	0.064	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
2,4,6-Trichlorophenol	0.18	U	0.18	0.061	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
4-Chloro-3-methylphenol	0.18	U	0.18	0.065	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
4-Chlorophenyl phenyl ether	0.18	U	0.18	0.062	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
4,6-Dinitro-2-methylphenol	0.94	U	0.94	0.32	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Cresols, Total	0.37	U	0.37	0.11	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Acenaphthene	0.020	J	0.037	0.011	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Acenaphthylene	0.043		0.037	0.0081	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Acetophenone	0.37	U	0.37	0.066	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Aniline	0.18	U	0.18	0.048	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Anthracene	0.081		0.037	0.0096	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Atrazine	0.37	U	0.37	0.081	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzaldehyde	0.029	J	0.37	0.023	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzidine	3.7	U	3.7	1.4	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzo[a]anthracene	0.19		0.037	0.017	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzo[b]fluoranthene	0.36		0.037	0.0091	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzo[k]fluoranthene	0.12		0.037	0.011	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzoic acid	0.94	U	0.94	0.41	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzo[g,h,i]perylene	0.14		0.037	0.0080	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzo[a]pyrene	0.24		0.037	0.016	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Bis(2-chloroethoxy)methane	0.18	U	0.18	0.068	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Bis(2-chloroethyl)ether	0.037	U	0.037	0.0067	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Bis(2-ethylhexyl) phthalate	0.30	J	1.8	0.20	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
4-Bromophenyl phenyl ether	0.18	U	0.18	0.079	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Butyl benzyl phthalate	0.18	U	0.18	0.13	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Date Collected: 05/03/22 12:55

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.9

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	0.94	U	0.94	0.12	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Carbazole	0.025	J	0.037	0.0087	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
4-Chloroaniline	0.18	U	0.18	0.049	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Chrysene	0.25		0.037	0.021	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Dibenz(a,h)anthracene	0.044		0.037	0.024	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Dibenzofuran	0.18	U	0.18	0.068	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Di-n-butyl phthalate	0.18	U	0.18	0.081	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Di-n-octyl phthalate	0.18	U	0.18	0.11	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Diethyl phthalate	0.18	U	0.18	0.065	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Dimethyl phthalate	0.18	U	0.18	0.073	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Fluoranthene	0.38		0.037	0.0098	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Fluorene	0.030	J	0.037	0.0073	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Hexachlorobenzene	0.037	U	0.037	0.013	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Hexachlorobutadiene	0.037	U	0.037	0.011	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Hexachlorocyclopentadiene	0.18	U	0.18	0.019	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Hexachloroethane	0.18	U	0.18	0.065	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Indeno[1,2,3-cd]pyrene	0.14		0.037	0.018	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Isophorone	0.18	U	0.18	0.069	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Naphthalene	0.040		0.037	0.0072	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Nitrobenzene	0.37	U	0.37	0.068	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
N-Nitrosodimethylamine	0.18	U	0.18	0.070	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
N-Nitrosodiphenylamine	0.18	U	0.18	0.062	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.013	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Pentachlorophenol	0.94	U	0.94	0.30	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Phenanthrene	0.19		0.037	0.0099	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Phenol	0.18	U	0.18	0.056	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Pyrene	0.32		0.037	0.0088	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Pyridine	0.37	U	0.37	0.10	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
Benzyl alcohol	0.18	U	0.18	0.013	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4
3,3'-Dichlorobenzidine	0.18	U	0.18	0.17	mg/Kg	☆	05/16/22 15:02	05/18/22 15:48	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		35 - 105	05/16/22 15:02	05/18/22 15:48	4
2-Fluorophenol (Surr)	47		32 - 105	05/16/22 15:02	05/18/22 15:48	4
2,4,6-Tribromophenol (Surr)	56		20 - 119	05/16/22 15:02	05/18/22 15:48	4
Nitrobenzene-d5 (Surr)	40		34 - 109	05/16/22 15:02	05/18/22 15:48	4
Phenol-d5 (Surr)	52		34 - 105	05/16/22 15:02	05/18/22 15:48	4
Terphenyl-d14 (Surr)	59		20 - 117	05/16/22 15:02	05/18/22 15:48	4

Method: EPA 8081B LL - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	0.00018	J p	0.00058	0.00018	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5
alpha-BHC (1C)	0.00058	U	0.00058	0.00014	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5
beta-BHC (1C)	0.00058	U	0.00058	0.00016	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5
delta-BHC (1C)	0.00058	U	0.00058	0.00018	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5
gamma-BHC (Lindane) (1C)	0.00058	U	0.00058	0.00015	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5
cis-Chlordane (1C)	0.0014		0.00058	0.00014	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5
trans-Chlordane (1C)	0.0012	p	0.00058	0.00013	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5
Chlordane (technical) (2C)	0.010		0.0058	0.0025	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5
4,4'-DDD (1C)	0.0063		0.00058	0.00012	mg/Kg	☆	05/06/22 19:20	05/20/22 10:37	5

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Date Collected: 05/03/22 12:55

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.9

Method: EPA 8081B LL - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE (2C)	0.016		0.00058	0.00012	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
4,4'-DDT (1C)	0.00058	U	0.00058	0.00041	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Dieldrin (1C)	0.00058	U	0.00058	0.00014	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Endosulfan I (1C)	0.00058	U	0.00058	0.00016	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Endosulfan II (1C)	0.00058	U	0.00058	0.00013	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Endosulfan sulfate (1C)	0.00058	U	0.00058	0.00027	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Endrin (1C)	0.00058	U	0.00058	0.00011	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Endrin aldehyde (1C)	0.00058	U	0.00058	0.00021	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Endrin ketone (1C)	0.00058	U	0.00058	0.000080	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Heptachlor (1C)	0.00058	U	0.00058	0.00018	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Heptachlor epoxide (2C)	0.00015	J p	0.00058	0.00015	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Methoxychlor (1C)	0.00058	U	0.00058	0.00022	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Mirex (1C)	0.00058	U	0.00058	0.00011	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Toxaphene (1C)	0.023	U	0.023	0.016	mg/Kg	✱	05/06/22 19:20	05/20/22 10:37	5
Endosulfan, Total (1C)	1.2	U	1.2	0.28	ug/Kg	✱	05/06/22 19:20	05/20/22 10:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	33		10 - 105	05/06/22 19:20	05/20/22 10:37	5
Tetrachloro-m-xylene (Surr) (2C)	40		10 - 105	05/06/22 19:20	05/20/22 10:37	5
DCB Decachlorobiphenyl (Surr) (1C)	117	S1+	25 - 107	05/06/22 19:20	05/20/22 10:37	5
DCB Decachlorobiphenyl (Surr) (2C)	154	S1+	25 - 107	05/06/22 19:20	05/20/22 10:37	5

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	0.0011	U	0.0011	0.00037	mg/Kg	✱	05/06/22 14:32	05/12/22 21:46	1
PCB-1221 (1C)	0.0011	U	0.0011	0.00041	mg/Kg	✱	05/06/22 14:32	05/12/22 21:46	1
PCB-1232 (1C)	0.0011	U	0.0011	0.00028	mg/Kg	✱	05/06/22 14:32	05/12/22 21:46	1
PCB-1242 (1C)	0.0011	U	0.0011	0.00017	mg/Kg	✱	05/06/22 14:32	05/12/22 21:46	1
PCB-1248 (1C)	0.0011	U	0.0011	0.00028	mg/Kg	✱	05/06/22 14:32	05/12/22 21:46	1
PCB-1254 (2C)	0.062		0.0011	0.00034	mg/Kg	✱	05/06/22 14:32	05/12/22 21:46	1
PCB-1260 (1C)	0.0011	U	0.0011	0.00033	mg/Kg	✱	05/06/22 14:32	05/12/22 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	75		33 - 126	05/06/22 14:32	05/12/22 21:46	1
Tetrachloro-m-xylene (Surr) (2C)	70		33 - 126	05/06/22 14:32	05/12/22 21:46	1
DCB Decachlorobiphenyl (Surr) (1C)	228	S1+	26 - 170	05/06/22 14:32	05/12/22 21:46	1
DCB Decachlorobiphenyl (Surr) (2C)	279	S1+	26 - 170	05/06/22 14:32	05/12/22 21:46	1

Method: EPA 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14000	^2	8.4	5.9	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Arsenic	10		0.14	0.081	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Barium	180		1.4	0.85	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Antimony	0.71		0.28	0.15	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Beryllium	1.5		0.14	0.10	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Cadmium	1.8		0.14	0.078	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Calcium	4100		70	28	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Chromium	42		0.28	0.25	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Cobalt	18		0.070	0.050	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Copper	55		0.42	0.29	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Date Collected: 05/03/22 12:55

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.9

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	4400		70	6.3	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Manganese	1700	^2	0.70	0.60	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Iron	33000	^2	7.0	6.7	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Lead	71		0.14	0.092	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Potassium	1700		70	20	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Nickel	29		0.14	0.13	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Selenium	0.93		0.70	0.17	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Sodium	180		70	36	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Silver	0.45		0.14	0.039	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Thallium	0.20		0.14	0.098	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Vanadium	34		0.14	0.13	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1
Zinc	350		0.70	0.67	mg/Kg	✱	05/18/22 09:29	05/25/22 01:17	1

Method: EPA 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.043	0.028	mg/Kg	✱	05/26/22 07:09	05/26/22 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	64.1		0.1	0.1	%			05/10/22 06:49	1
Percent Solids	35.9		0.1	0.1	%			05/10/22 06:49	1
Cr (III)	42		0.50	0.21	mg/Kg			05/31/22 09:57	1
Cr (VI)	5.5	U	5.5	2.9	mg/Kg	✱	05/16/22 11:40	05/23/22 12:51	5
Cyanide, Total	0.91		0.51	0.39	mg/Kg	✱	05/10/22 13:45	05/10/22 17:39	1
Total Organic Carbon - Duplicates	53000		2800	2700	mg/Kg	✱		05/13/22 17:46	1

Method: D2216-90 - Water (Moisture) Content

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Moisture Content	183.9				%			06/14/22 19:57	1

Method: D422 - Grain Size

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gravel	0.0				%			06/14/22 20:07	1
Sieve Size 3 inch - Percent Finer	100.0				% Passing			06/14/22 20:07	1
Sand	2.3				%			06/14/22 20:07	1
Sieve Size 2 inch - Percent Finer	100.0				% Passing			06/14/22 20:07	1
Coarse Sand	0.0				%			06/14/22 20:07	1
Sieve Size 1.5 inch - Percent Finer	100.0				% Passing			06/14/22 20:07	1
Medium Sand	0.1				%			06/14/22 20:07	1
Sieve Size 1 inch - Percent Finer	100.0				% Passing			06/14/22 20:07	1
Fine Sand	2.2				%			06/14/22 20:07	1
Sieve Size 0.75 inch - Percent Finer	100.0				% Passing			06/14/22 20:07	1
Sieve Size 0.375 inch - Percent Finer	100.0				% Passing			06/14/22 20:07	1
Silt	61.4				%			06/14/22 20:07	1
Clay	36.3				%			06/14/22 20:07	1
Sieve Size #4 - Percent Finer	100.0				% Passing			06/14/22 20:07	1
Sieve Size #10 - Percent Finer	100.0				% Passing			06/14/22 20:07	1
Sieve Size #20 - Percent Finer	99.9				% Passing			06/14/22 20:07	1
Sieve Size #40 - Percent Finer	99.9				% Passing			06/14/22 20:07	1

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Date Collected: 05/03/22 12:55

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.9

Method: D422 - Grain Size (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sieve Size #60 - Percent Finer	99.6				% Passing			06/14/22 20:07	1
Sieve Size #80 - Percent Finer	99.4				% Passing			06/14/22 20:07	1
Sieve Size #100 - Percent Finer	99.0				% Passing			06/14/22 20:07	1
Sieve Size #200 - Percent Finer	97.7				% Passing			06/14/22 20:07	1
Hydrometer Reading 1 - Percent Finer	85.9				% Passing			06/14/22 20:07	1
Hydrometer Reading 2 - Percent Finer	67.6				% Passing			06/14/22 20:07	1
Hydrometer Reading 3 - Percent Finer	54.6				% Passing			06/14/22 20:07	1
Hydrometer Reading 4 - Percent Finer	44.1				% Passing			06/14/22 20:07	1
Hydrometer Reading 5 - Percent Finer	36.3				% Passing			06/14/22 20:07	1
Hydrometer Reading 6 - Percent Finer	24.9				% Passing			06/14/22 20:07	1
Hydrometer Reading 7 - Percent Finer	15.3				% Passing			06/14/22 20:07	1

Particle Size of Soils by ASTM D422

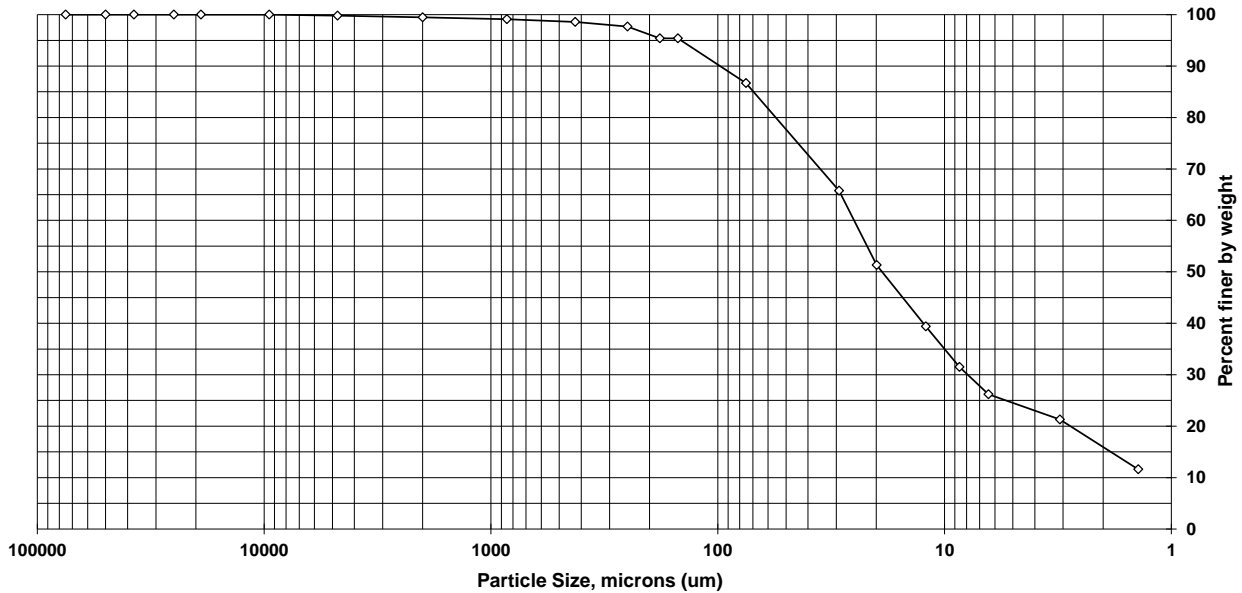
Sample ID: C-4 GRAB
Lab ID: 630-32573-B-1

Percent Solids: 36.5%
Specific Gravity: 2.650

Date Received: 5/3/2022
Start Date: 6/14/2022
End Date: 6/24/2022

Shape (> #10): na

Non-soil material: plant
Hardness (> #10): n/a



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	99.8	0.2
#10	2000	99.5	0.3
#20	850	99.1	0.4
#40	425	98.6	0.5
#60	250	97.7	0.9
#80	180	95.4	2.3
#100	150	95.4	0.0
#200	75	86.7	8.7
Hyd1	29.2	65.8	20.9
Hyd2	19.9	51.3	14.5
Hyd3	12.1	39.4	11.9
Hyd4	8.6	31.5	7.9
Hyd5	6.4	26.2	5.3
Hyd6	3.1	21.3	4.9
Hyd7	1.4	11.6	9.7

Soil Classification	Percent of sample
Gravel	0.2
Sand	13.1
Coarse Sand	0.3
Medium Sand	0.9
Fine Sand	11.9
Silt	60.5
Clay	26.2

Particle Size of Soils by ASTM D422

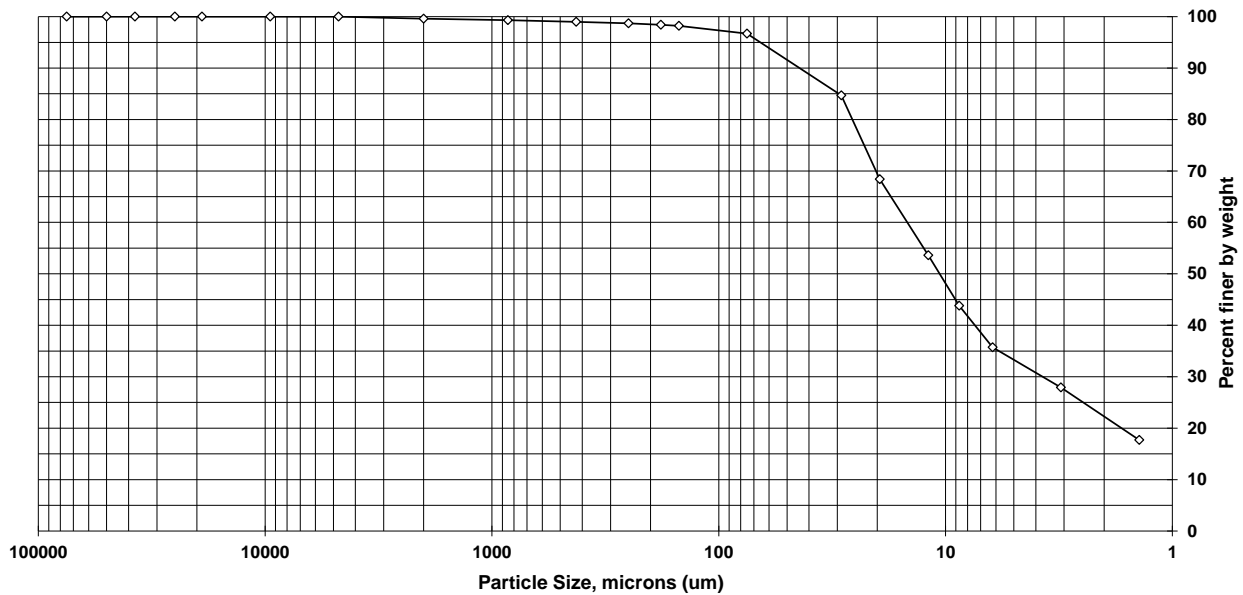
Sample ID: C-10 GRAB
Lab ID: 630-32573-B-2

Percent Solids: 34.9%
Specific Gravity: 2.650

Date Received: 5/3/2022
Start Date: 6/14/2022
End Date: 6/24/2022

Shape (> #10): subangular

Non-soil material: plant
Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.6	0.4
#20	850	99.3	0.3
#40	425	99.0	0.3
#60	250	98.7	0.3
#80	180	98.4	0.3
#100	150	98.2	0.2
#200	75	96.7	1.5
Hyd1	28.8	84.7	12.0
Hyd2	19.5	68.4	16.3
Hyd3	11.9	53.6	14.8
Hyd4	8.7	43.8	9.8
Hyd5	6.2	35.7	8.1
Hyd6	3.1	27.9	7.8
Hyd7	1.4	17.7	10.2

Soil Classification	Percent of sample
Gravel	0.0
Sand	3.3
Coarse Sand	0.4
Medium Sand	0.6
Fine Sand	2.3
Silt	61.0
Clay	35.7

Particle Size of Soils by ASTM D422

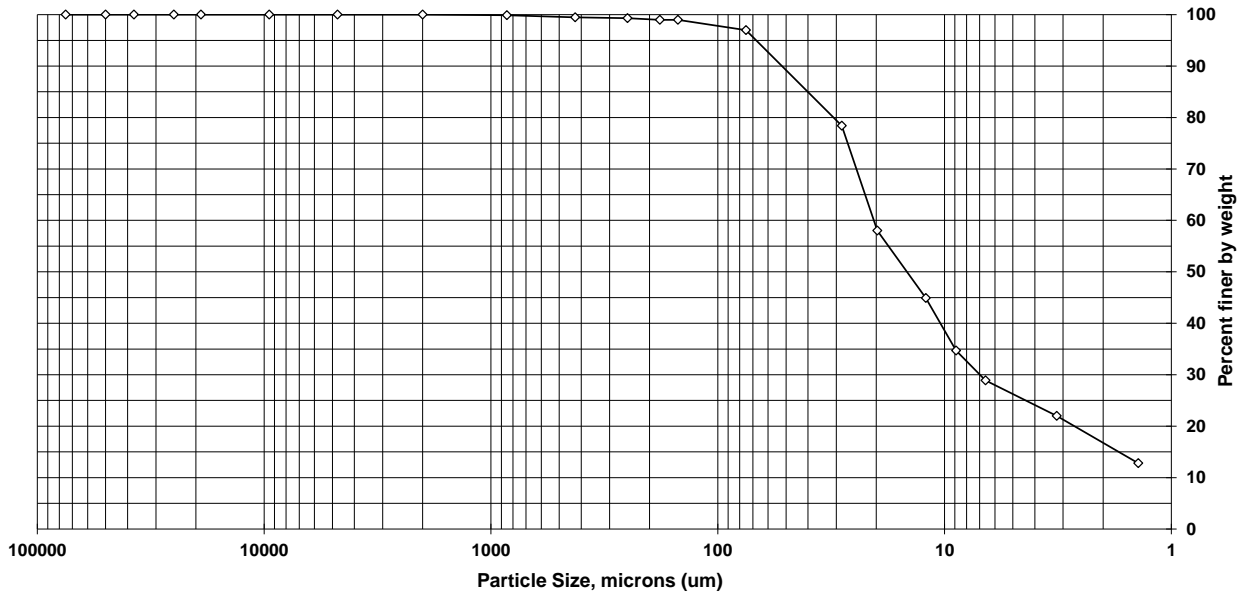
Sample ID: C-11 GRAB
Lab ID: 630-32573-B-3

Percent Solids: 36.5%
Specific Gravity: 2.650

Date Received: 5/3/2022
Start Date: 6/14/2022
End Date: 6/24/2022

Shape (> #10): na

Non-soil material: plant
Hardness (> #10): n/a



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.5	0.4
#60	250	99.3	0.2
#80	180	99.0	0.3
#100	150	99.0	0.0
#200	75	97.0	2.0
Hyd1	28.4	78.4	18.6
Hyd2	19.8	58.0	20.4
Hyd3	12.1	44.9	13.1
Hyd4	8.9	34.7	10.2
Hyd5	6.6	28.9	5.8
Hyd6	3.2	22.0	6.9
Hyd7	1.4	12.8	9.2

Soil Classification	Percent of sample
Gravel	0.0
Sand	3.0
Coarse Sand	0.0
Medium Sand	0.5
Fine Sand	2.5
Silt	68.1
Clay	28.9

Particle Size of Soils by ASTM D422

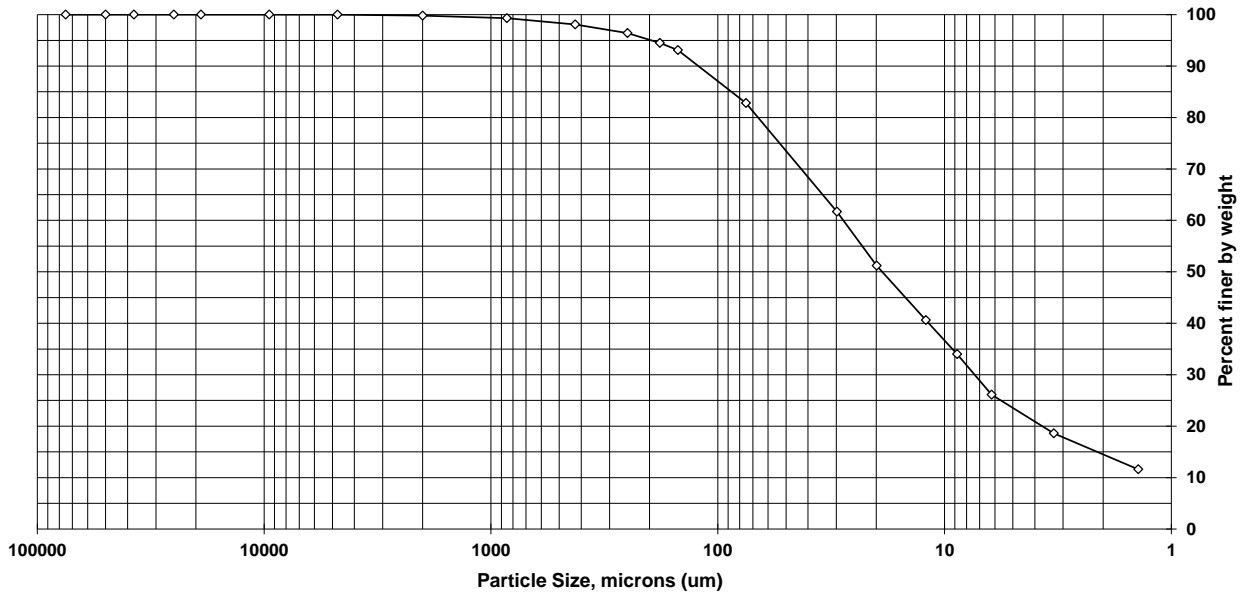
Sample ID: SC-2 COMPOSITE (C3 +
Lab ID: 630-32573-C-4

Percent Solids: 39.4%
Specific Gravity: 2.650

Date Received: 5/3/2022
Start Date: 6/14/2022
End Date: 6/24/2022

Shape (> #10): na

Non-soil material: plant
Hardness (> #10): n/a



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.8	0.2
#20	850	99.3	0.5
#40	425	98.1	1.2
#60	250	96.4	1.7
#80	180	94.5	1.9
#100	150	93.1	1.4
#200	75	82.8	10.3
Hyd1	29.8	61.7	21.1
Hyd2	19.9	51.2	10.5
Hyd3	12.1	40.6	10.6
Hyd4	8.8	34.0	6.6
Hyd5	6.2	26.1	7.9
Hyd6	3.3	18.6	7.5
Hyd7	1.4	11.6	7.0

Soil Classification	Percent of sample
Gravel	0.0
Sand	17.2
Coarse Sand	0.2
Medium Sand	1.7
Fine Sand	15.3
Silt	56.7
Clay	26.1

Particle Size of Soils by ASTM D422

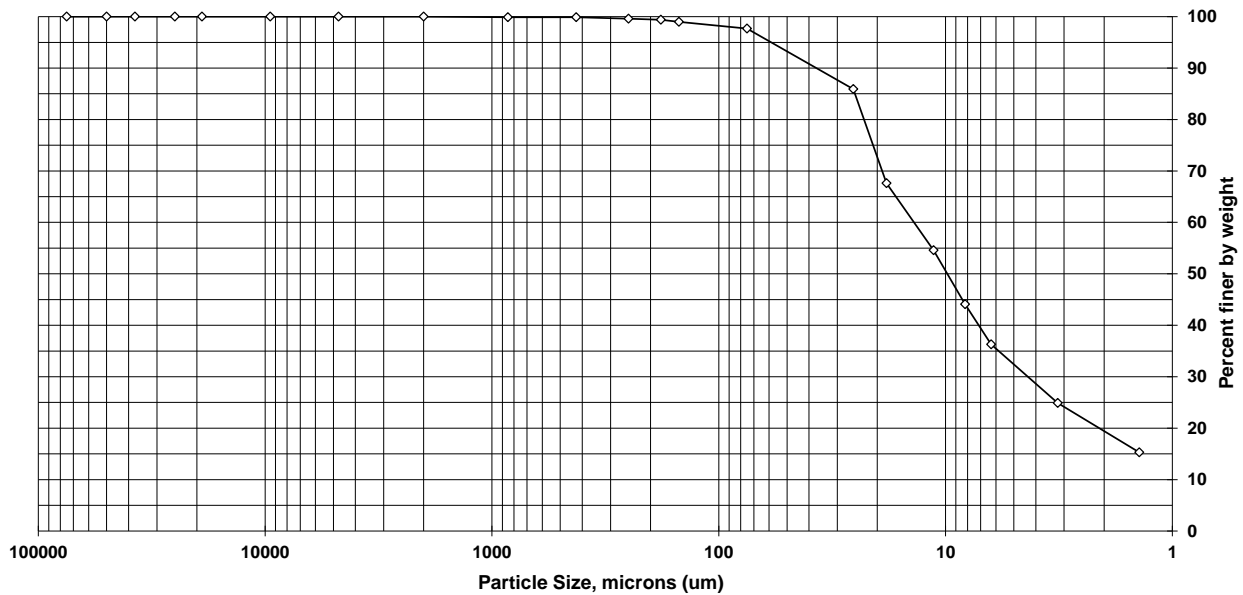
Sample ID: SC-5 COMPOSITE (C10)
Lab ID: 630-32573-C-5

Percent Solids: 35.2%
Specific Gravity: 2.650

Date Received: 5/3/2022
Start Date: 6/14/2022
End Date: 6/24/2022

Shape (> #10): na

Non-soil material: plant
Hardness (> #10): n/a



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.0
#60	250	99.6	0.3
#80	180	99.4	0.2
#100	150	99.0	0.4
#200	75	97.7	1.3
Hyd1	25.5	85.9	11.8
Hyd2	18.2	67.6	18.3
Hyd3	11.3	54.6	13.0
Hyd4	8.2	44.1	10.5
Hyd5	6.3	36.3	7.8
Hyd6	3.2	24.9	11.4
Hyd7	1.4	15.3	9.6

Soil Classification	Percent of sample
Gravel	0.0
Sand	2.3
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	2.2
Silt	61.4
Clay	36.3

TestAmerica Burlington

Sediment Grain Size - D422

Client	
Client Sample ID	C-4 GRAB
Lab Sample ID	630-32573-B-1

Date Received	5/3/2022
Start Date	06/14/2022 19:58
End Date	06/24/2022 9:31

Dry Weight Determination

Tin Weight	1.02 g
Wet Sample + Tin	42.14 g
Dry Sample + Tin	16.03 g
% Moisture	63.50 %

Non-soil material:	plant
Shape (> #10):	na
Hardness (> #10):	n/a

Date/Time in oven	06/14/2022 20:00
Date/Time out of oven	06/15/2022 15:34

Sample Weights

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample Weight (Wet)	47.88	214.10	166.22
Sample Weight (Oven Dried)			60.7

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample >=#10			0.3
Sample <#10			60.4
% Passing #10			36.3

Hydrometer Data

Serial Number	542325
Calib. Date (mm/dd/yyyy)	12/10/2021
Low Temp (C)	17.0
Reading at Low Temp	1.0030
High Temp (C)	23.0
Reading at High Temp	1.0020
Hydrometer Cal Slope	-0.000166667
Hydrometer Cal Intercept	1.005833333
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.01	488.13	0.12 g	99.8	Gravel	
#10	2000	462.62	462.80	0.18 g	99.5	Sand	Coarse
#20	850	377.73	377.97	0.24 g	99.1	Sand	Medium
#40	425	366.19	366.48	0.29 g	98.6	Sand	Medium
#60	250	348.42	348.94	0.52 g	97.7	Sand	Fine
#80	180	327.36	328.77	1.41 g	95.4	Sand	Fine
#100	150	337.02	337.02	0.00 g	95.4	Sand	Fine
#200	75	312.28	317.56	5.28 g	86.7	Sand	Fine
				0.00 g	86.7		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g)	60.7
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Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0275	19.3	29.2	65.8	Silt	
5	5	1.0220	19.4	19.9	51.3	Silt	
15	15	1.0175	19.4	12.1	39.4	Silt	
30	32	1.0145	19.4	8.6	31.5	Silt	
60	60	1.0125	19.3	6.4	26.2	Silt	
250	259	1.0105	20.2	3.1	21.3	Clay	
1440	1406	1.0070	19.4	1.4	11.6	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client	
Client Sample ID	C-10 GRAB
Lab Sample ID	630-32573-B-2

Date Received	5/3/2022
Start Date	06/14/2022 20:01
End Date	06/24/2022 9:40

Dry Weight Determination

Tin Weight	1.04 g
Wet Sample + Tin	55.08 g
Dry Sample + Tin	19.92 g
% Moisture	65.06 %

Non-soil material:	plant
Shape (> #10):	subangular
Hardness (> #10):	hard

Date/Time in oven	06/14/2022 20:02
Date/Time out of oven	06/15/2022 15:35

Sample Weights

	Tare (g)	Pan+Samp (g)	Samp (g)
Sample Weight (Wet)	44.66	185.32	140.66
Sample Weight (Oven Dried)			49.1

Sample Split (oven dried)

	Tare (g)	Pan+Samp (g)	Samp (g)
Sample >=#10			0.22
Sample <#10			48.9
% Passing #10			34.8

Hydrometer Data

Serial Number	542325
Calib. Date (mm/dd/yyyy)	12/10/2021
Low Temp (C)	17.0
Reading at Low Temp	1.0030
High Temp (C)	23.0
Reading at High Temp	1.0020
Hydrometer Cal Slope	-0.000166667
Hydrometer Cal Intercept	1.005833333
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750			0.00 g	100.0	Gravel	
#10	2000	462.62	462.84	0.22 g	99.6	Sand	Coarse
#20	850	372.96	373.10	0.14 g	99.3	Sand	Medium
#40	425	361.21	361.38	0.17 g	99.0	Sand	Medium
#60	250	351.57	351.71	0.14 g	98.7	Sand	Fine
#80	180	318.59	318.72	0.13 g	98.4	Sand	Fine
#100	150	327.71	327.80	0.09 g	98.2	Sand	Fine
#200	75	313.73	314.47	0.74 g	96.7	Sand	Fine
				0.00 g	96.7		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g)	49.1
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Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0285	19.3	28.8	84.7	Silt	
5	5	1.0235	19.4	19.5	68.4	Silt	
15	15	1.0190	19.3	11.9	53.6	Silt	
30	30	1.0160	19.3	8.7	43.8	Silt	
60	63	1.0135	19.4	6.2	35.7	Silt	
250	253	1.0110	20.2	3.1	27.9	Clay	
1440	1394	1.0080	19.4	1.4	17.7	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client	
Client Sample ID	C-11 GRAB
Lab Sample ID	630-32573-B-3

Date Received	5/3/2022
Start Date	06/14/2022 20:03
End Date	06/24/2022 9:53

Dry Weight Determination

Tin Weight	1.04 g
Wet Sample + Tin	34.08 g
Dry Sample + Tin	13.09 g
% Moisture	63.53 %

Non-soil material:	plant
Shape (> #10):	na
Hardness (> #10):	n/a

Date/Time in oven	06/14/2022 20:04
Date/Time out of oven	06/15/2022 15:35

Sample Weights

	Tare (g)	Pan+Samp (g)	Samp (g)
Sample Weight (Wet)	44.13	195.27	151.14
Sample Weight (Oven Dried)			55.1

Sample Split (oven dried)

	Tare (g)	Pan+Samp (g)	Samp (g)
Sample >=#10			0.01
Sample <#10			55.1
% Passing #10			36.5

Hydrometer Data

Serial Number	542325
Calib. Date (mm/dd/yyyy)	12/10/2021
Low Temp (C)	17.0
Reading at Low Temp	1.0030
High Temp (C)	23.0
Reading at High Temp	1.0020
Hydrometer Cal Slope	-0.000166667
Hydrometer Cal Intercept	1.005833333
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750			0.00 g	100.0	Gravel	
#10	2000	462.62	462.63	0.01 g	100.0	Sand	Coarse
#20	850	377.73	377.81	0.08 g	99.9	Sand	Medium
#40	425	366.19	366.43	0.24 g	99.5	Sand	Medium
#60	250	348.42	348.52	0.10 g	99.3	Sand	Fine
#80	180	327.36	327.54	0.18 g	99.0	Sand	Fine
#100	150	337.02	337.02	0.00 g	99.0	Sand	Fine
#200	75	312.28	313.40	1.12 g	97.0	Sand	Fine
				0.00 g	97.0		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g)	55.1
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Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0295	19.3	28.4	78.4	Silt	
5	5	1.0225	19.3	19.8	58	Silt	
15	15	1.0180	19.4	12.1	44.9	Silt	
30	30	1.0145	19.4	8.9	34.7	Silt	
60	57	1.0125	19.4	6.6	28.9	Silt	
250	247	1.0100	20.2	3.2	22	Clay	
1440	1394	1.0070	19.3	1.4	12.8	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client	
Client Sample ID	SC-2 COMPOSITE (C3 +
Lab Sample ID	630-32573-C-4

Date Received	5/3/2022
Start Date	06/14/2022 20:05
End Date	06/24/2022 10:00

Dry Weight Determination

Tin Weight	1.02 g
Wet Sample + Tin	47.04 g
Dry Sample + Tin	19.16 g
% Moisture	60.58 %

Non-soil material:	plant
Shape (> #10):	na
Hardness (> #10):	n/a

Date/Time in oven	06/14/2022 20:06
Date/Time out of oven	06/15/2022 15:35

Sample Weights

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample Weight (Wet)	44.03	198.42	154.39
Sample Weight (Oven Dried)			60.9

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample >=#10			0.12
Sample <#10			60.8
% Passing #10			39.4

Hydrometer Data

Serial Number	542325
Calib. Date (mm/dd/yyyy)	12/10/2021
Low Temp (C)	17.0
Reading at Low Temp	1.0030
High Temp (C)	23.0
Reading at High Temp	1.0020
Hydrometer Cal Slope	-0.000166667
Hydrometer Cal Intercept	1.005833333
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750			0.00 g	100.0	Gravel	
#10	2000	462.62	462.74	0.12 g	99.8	Sand	Coarse
#20	850	372.96	373.29	0.33 g	99.3	Sand	Medium
#40	425	361.21	361.96	0.75 g	98.1	Sand	Medium
#60	250	351.57	352.63	1.06 g	96.4	Sand	Fine
#80	180	318.59	319.74	1.15 g	94.5	Sand	Fine
#100	150	327.71	328.56	0.85 g	93.1	Sand	Fine
#200	75	313.73	320.03	6.30 g	82.8	Sand	Fine
				0.00 g	82.8		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g)	60.9
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Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0260	19.4	29.8	61.7	Silt	
5	5	1.0220	19.4	19.9	51.2	Silt	
15	15	1.0180	19.4	12.1	40.6	Silt	
30	30	1.0155	19.4	8.8	34	Silt	
60	63	1.0125	19.4	6.2	26.1	Silt	
250	241	1.0095	20.3	3.3	18.6	Clay	
1440	1382	1.0070	19.3	1.4	11.6	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client	
Client Sample ID	SC-5 COMPOSITE (C10
Lab Sample ID	630-32573-C-5

Date Received	5/3/2022
Start Date	06/14/2022 20:07
End Date	06/24/2022 10:11

Dry Weight Determination

Tin Weight	1.03 g
Wet Sample + Tin	33.11 g
Dry Sample + Tin	12.33 g
% Moisture	64.78 %

Non-soil material:	plant
Shape (> #10):	na
Hardness (> #10):	n/a

Date/Time in oven	06/14/2022 20:09
Date/Time out of oven	06/15/2022 15:36

Sample Weights

	Tare (g)	Pan+Samp (g)	Samp (g)
Sample Weight (Wet)	47.85	222.50	174.65
Sample Weight (Oven Dried)			61.5

Sample Split (oven dried)

	Tare (g)	Pan+Samp (g)	Samp (g)
Sample >=#10			0.03
Sample <#10			61.5
% Passing #10			35.2

Hydrometer Data

Serial Number	542325
Calib. Date (mm/dd/yyyy)	12/10/2021
Low Temp (C)	17.0
Reading at Low Temp	1.0030
High Temp (C)	23.0
Reading at High Temp	1.0020
Hydrometer Cal Slope	-0.000166667
Hydrometer Cal Intercept	1.005833333
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750			0.00 g	100.0	Gravel	
#10	2000	462.62	462.65	0.03 g	100.0	Sand	Coarse
#20	850	377.73	377.80	0.07 g	99.9	Sand	Medium
#40	425	366.19	366.21	0.02 g	99.9	Sand	Medium
#60	250	348.42	348.59	0.17 g	99.6	Sand	Fine
#80	180	327.36	327.48	0.12 g	99.4	Sand	Fine
#100	150	337.02	337.24	0.22 g	99.0	Sand	Fine
#200	75	312.28	313.06	0.78 g	97.7	Sand	Fine
				0.00 g	97.7		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g)	61.5
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Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0355	19.4	25.5	85.9	Silt	
5	5	1.0285	19.4	18.2	67.6	Silt	
15	15	1.0235	19.4	11.3	54.6	Silt	
30	31	1.0195	19.4	8.2	44.1	Silt	
60	57	1.0165	19.4	6.3	36.3	Silt	
250	235	1.0120	20.3	3.2	24.9	Clay	
1440	1282	1.0085	19.2	1.4	15.3	Clay	

Surrogate Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Matrix: Sediment

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (35-105)	2FP (32-105)	TBP (20-119)	NBZ (34-109)	PHL (34-105)	TPHL (20-117)
630-32573-4	SC-2 COMPOSITE (C3 + C4)	55	45	32	45	46	36
630-32573-5	SC-5 COMPOSITE (C10 + C11)	62	47	56	40	52	59
LCS 180-398972/2-A	Lab Control Sample	69	78	56	67	68	72
MB 180-398972/1-A	Method Blank	71	73	54	67	68	63
Surrogate Legend							
FBP = 2-Fluorobiphenyl (Surr)							
2FP = 2-Fluorophenol (Surr)							
TBP = 2,4,6-Tribromophenol (Surr)							
NBZ = Nitrobenzene-d5 (Surr)							
PHL = Phenol-d5 (Surr)							
TPHL = Terphenyl-d14 (Surr)							

Method: EPA 8081B LL - Organochlorine Pesticides (GC)

Matrix: Sediment

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (10-105)	TCX2 (10-105)	DCB1 (25-107)	DCB2 (25-107)
630-32573-4	SC-2 COMPOSITE (C3 + C4)	29	36	94	134 S1+
630-32573-5	SC-5 COMPOSITE (C10 + C11)	33	40	117 S1+	154 S1+
LCS 180-397976/2-B	Lab Control Sample	44	59	83	89
MB 180-397976/1-B	Method Blank	45	58	90	87
Surrogate Legend					
TCX = Tetrachloro-m-xylene (Surr)					
DCB = DCB Decachlorobiphenyl (Surr)					

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Sediment

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (33-126)	TCX2 (33-126)	DCB1 (26-170)	DCB2 (26-170)
630-32573-4	SC-2 COMPOSITE (C3 + C4)	80	76	170	220 S1+
630-32573-5	SC-5 COMPOSITE (C10 + C11)	75	70	228 S1+	279 S1+
LCS 180-397956/2-C	Lab Control Sample	99	96	109	107
MB 180-397956/1-C	Method Blank	104	99	109	109
Surrogate Legend					
TCX = Tetrachloro-m-xylene (Surr)					
DCB = DCB Decachlorobiphenyl (Surr)					

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-398972/1-A

Matrix: Sediment

Analysis Batch: 399156

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 398972

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	0.017	U	0.017	0.0061	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
1,2-Dichlorobenzene	0.017	U	0.017	0.0053	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
1,2,4,5-Tetrachlorobenzene	17	U	17	6.6	ug/Kg		05/16/22 15:02	05/18/22 08:51	1
1,3-Dichlorobenzene	0.017	U	0.017	0.0055	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
1,4-Dichlorobenzene	0.017	U	0.017	0.0061	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
1,4-Dioxane	0.033	U	0.033	0.0052	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
1,2-Diphenylhydrazine(as Azobenzene)	0.017	U	0.017	0.0074	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
1,2,4-Trichlorobenzene	0.017	U	0.017	0.0051	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2-Chloronaphthalene	0.0034	U	0.0034	0.00077	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2-Chlorophenol	0.017	U	0.017	0.0061	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2,3,4,6-Tetrachlorophenol	17	U	17	7.0	ug/Kg		05/16/22 15:02	05/18/22 08:51	1
2,4-Dichlorophenol	0.0034	U	0.0034	0.0013	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2,4-Dimethylphenol	0.017	U	0.017	0.0056	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2,4-Dinitrophenol	0.17	U	0.17	0.10	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2,4-Dinitrotoluene	0.017	U	0.017	0.0099	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2,6-Dinitrotoluene	0.017	U	0.017	0.0065	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2-Methylnaphthalene	0.0034	U	0.0034	0.00080	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2-Methylphenol	0.017	U	0.017	0.0048	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Methylphenol, 3 & 4	0.017	U	0.017	0.0049	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2-Nitroaniline	0.085	U	0.085	0.0076	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
3-Nitroaniline	0.085	U	0.085	0.0042	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
4-Nitroaniline	0.085	U	0.085	0.0062	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2-Nitrophenol	0.017	U	0.017	0.0061	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
4-Nitrophenol	0.085	U	0.085	0.012	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2,2'-oxybis[1-chloropropane]	0.0034	U	0.0034	0.0012	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2,4,5-Trichlorophenol	0.017	U	0.017	0.0058	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
2,4,6-Trichlorophenol	0.017	U	0.017	0.0055	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
4-Chloro-3-methylphenol	0.017	U	0.017	0.0059	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
4-Chlorophenyl phenyl ether	0.017	U	0.017	0.0055	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
4,6-Dinitro-2-methylphenol	0.085	U	0.085	0.029	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Cresols, Total	0.033	U	0.033	0.0095	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Acenaphthene	0.0034	U	0.0034	0.00096	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Acenaphthylene	0.0034	U	0.0034	0.00073	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Acetophenone	0.034	U	0.034	0.0059	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Aniline	0.017	U	0.017	0.0043	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Anthracene	0.0034	U	0.0034	0.00087	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Atrazine	0.034	U	0.034	0.0073	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzaldehyde	0.034	U	0.034	0.0021	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzidine	0.34	U	0.34	0.13	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzo[a]anthracene	0.0034	U	0.0034	0.0015	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzo[b]fluoranthene	0.0034	U	0.0034	0.00082	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzo[k]fluoranthene	0.0034	U	0.0034	0.0010	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzoic acid	0.085	U	0.085	0.037	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzo[g,h,i]perylene	0.0034	U	0.0034	0.00072	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzo[a]pyrene	0.0034	U	0.0034	0.0014	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Bis(2-chloroethoxy)methane	0.017	U	0.017	0.0061	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Bis(2-chloroethyl)ether	0.0034	U	0.0034	0.00061	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Bis(2-ethylhexyl) phthalate	0.17	U	0.17	0.018	mg/Kg		05/16/22 15:02	05/18/22 08:51	1

Eurofins Environment Testing Philadelphia, LLC

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-398972/1-A

Matrix: Sediment

Analysis Batch: 399156

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 398972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	0.017	U	0.017	0.0071	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Butyl benzyl phthalate	0.017	U	0.017	0.012	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Caprolactam	0.085	U	0.085	0.011	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Carbazole	0.0034	U	0.0034	0.00078	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
4-Chloroaniline	0.017	U	0.017	0.0044	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Chrysene	0.0034	U	0.0034	0.0019	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Dibenz(a,h)anthracene	0.0034	U	0.0034	0.0021	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Dibenzofuran	0.017	U	0.017	0.0061	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Di-n-butyl phthalate	0.017	U	0.017	0.0073	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Di-n-octyl phthalate	0.017	U	0.017	0.0097	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Diethyl phthalate	0.017	U	0.017	0.0059	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Dimethyl phthalate	0.017	U	0.017	0.0066	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Fluoranthene	0.0034	U	0.0034	0.00088	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Fluorene	0.0034	U	0.0034	0.00066	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Hexachlorobenzene	0.0034	U	0.0034	0.0012	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Hexachlorobutadiene	0.0034	U	0.0034	0.00098	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Hexachlorocyclopentadiene	0.017	U	0.017	0.0017	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Hexachloroethane	0.017	U	0.017	0.0059	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Indeno[1,2,3-cd]pyrene	0.0034	U	0.0034	0.0017	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Isophorone	0.017	U	0.017	0.0062	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Naphthalene	0.0034	U	0.0034	0.00065	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Nitrobenzene	0.033	U	0.033	0.0061	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
N-Nitrosodimethylamine	0.017	U	0.017	0.0063	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
N-Nitrosodiphenylamine	0.017	U	0.017	0.0056	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
N-Nitrosodi-n-propylamine	0.0034	U	0.0034	0.0011	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Pentachlorophenol	0.085	U	0.085	0.027	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Phenanthrene	0.0034	U	0.0034	0.00090	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Phenol	0.017	U	0.017	0.0051	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Pyrene	0.0034	U	0.0034	0.00079	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Pyridine	0.034	U	0.034	0.0090	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
Benzyl alcohol	0.017	U	0.017	0.0011	mg/Kg		05/16/22 15:02	05/18/22 08:51	1
3,3'-Dichlorobenzidine	0.017	U	0.017	0.016	mg/Kg		05/16/22 15:02	05/18/22 08:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		35 - 105	05/16/22 15:02	05/18/22 08:51	1
2-Fluorophenol (Surr)	73		32 - 105	05/16/22 15:02	05/18/22 08:51	1
2,4,6-Tribromophenol (Surr)	54		20 - 119	05/16/22 15:02	05/18/22 08:51	1
Nitrobenzene-d5 (Surr)	67		34 - 109	05/16/22 15:02	05/18/22 08:51	1
Phenol-d5 (Surr)	68		34 - 105	05/16/22 15:02	05/18/22 08:51	1
Terphenyl-d14 (Surr)	63		20 - 117	05/16/22 15:02	05/18/22 08:51	1

Lab Sample ID: LCS 180-398972/2-A

Matrix: Sediment

Analysis Batch: 399156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	0.333	0.234		mg/Kg		70	43 - 100
1,2-Dichlorobenzene	0.333	0.228		mg/Kg		68	41 - 100

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-398972/2-A

Matrix: Sediment

Analysis Batch: 399156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	333	194		ug/Kg		58	40 - 103
1,3-Dichlorobenzene	0.333	0.228		mg/Kg		68	41 - 100
1,4-Dichlorobenzene	0.333	0.225		mg/Kg		67	41 - 100
1,4-Dioxane	0.333	0.252		mg/Kg		76	10 - 133
1,2-Diphenylhydrazine(as Azobenzene)	0.333	0.236		mg/Kg		71	39 - 111
1,2,4-Trichlorobenzene	0.333	0.199		mg/Kg		60	44 - 100
2-Chloronaphthalene	0.333	0.222		mg/Kg		66	47 - 100
2-Chlorophenol	0.333	0.239		mg/Kg		72	43 - 100
2,3,4,6-Tetrachlorophenol	333	191		ug/Kg		57	43 - 107
2,4-Dichlorophenol	0.333	0.212		mg/Kg		64	48 - 101
2,4-Dimethylphenol	0.333	0.211		mg/Kg		63	46 - 103
2,4-Dinitrophenol	0.667	0.410		mg/Kg		61	31 - 112
2,4-Dinitrotoluene	0.333	0.219		mg/Kg		66	48 - 106
2,6-Dinitrotoluene	0.333	0.226		mg/Kg		68	48 - 109
2-Methylnaphthalene	0.333	0.202		mg/Kg		61	44 - 100
2-Methylphenol	0.333	0.197		mg/Kg		59	43 - 101
Methylphenol, 3 & 4	0.333	0.195		mg/Kg		59	43 - 104
2-Nitroaniline	0.333	0.229		mg/Kg		69	40 - 122
3-Nitroaniline	0.333	0.219		mg/Kg		66	39 - 107
4-Nitroaniline	0.333	0.212		mg/Kg		63	41 - 110
2-Nitrophenol	0.333	0.256		mg/Kg		77	48 - 108
4-Nitrophenol	0.667	0.381		mg/Kg		57	33 - 131
2,2'-oxybis[1-chloropropane]	0.333	0.185		mg/Kg		56	33 - 101
2,4,5-Trichlorophenol	0.333	0.212		mg/Kg		64	47 - 108
2,4,6-Trichlorophenol	0.333	0.220		mg/Kg		66	47 - 108
4-Chloro-3-methylphenol	0.333	0.200		mg/Kg		60	47 - 108
4-Chlorophenyl phenyl ether	0.333	0.198		mg/Kg		59	45 - 100
4,6-Dinitro-2-methylphenol	0.667	0.455		mg/Kg		68	47 - 104
Cresols, Total	0.667	0.392		mg/Kg		59	43 - 102
Acenaphthene	0.333	0.224		mg/Kg		67	41 - 100
Acenaphthylene	0.333	0.214		mg/Kg		64	45 - 100
Acetophenone	0.333	0.214		mg/Kg		64	40 - 100
Aniline	0.333	0.214		mg/Kg		64	36 - 100
Anthracene	0.333	0.216		mg/Kg		65	47 - 100
Atrazine	0.333	0.208		mg/Kg		62	46 - 102
Benzaldehyde	0.333	0.248		mg/Kg		74	10 - 125
Benzidine	0.333	0.34	U	mg/Kg		20	10 - 100
Benzo[a]anthracene	0.333	0.211		mg/Kg		63	47 - 100
Benzo[b]fluoranthene	0.333	0.226		mg/Kg		68	44 - 100
Benzo[k]fluoranthene	0.333	0.204		mg/Kg		61	43 - 100
Benzoic acid	0.333	0.279		mg/Kg		84	22 - 123
Benzo[g,h,i]perylene	0.333	0.218		mg/Kg		65	45 - 103
Benzo[a]pyrene	0.333	0.211		mg/Kg		63	45 - 101
Bis(2-chloroethoxy)methane	0.333	0.210		mg/Kg		63	45 - 100
Bis(2-chloroethyl)ether	0.333	0.209		mg/Kg		63	39 - 101
Bis(2-ethylhexyl) phthalate	0.333	0.253		mg/Kg		76	45 - 109
4-Bromophenyl phenyl ether	0.333	0.212		mg/Kg		64	17 - 104
Butyl benzyl phthalate	0.333	0.224		mg/Kg		67	45 - 110

Eurofins Environment Testing Philadelphia, LLC

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-398972/2-A

Matrix: Sediment

Analysis Batch: 399156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Caprolactam	0.333	0.205		mg/Kg		61	46 - 109
Carbazole	0.333	0.215		mg/Kg		65	46 - 100
4-Chloroaniline	0.333	0.212		mg/Kg		64	38 - 100
Chrysene	0.333	0.199		mg/Kg		60	44 - 100
Dibenz(a,h)anthracene	0.333	0.232		mg/Kg		70	46 - 107
Dibenzofuran	0.333	0.202		mg/Kg		61	47 - 100
Di-n-butyl phthalate	0.333	0.217		mg/Kg		65	50 - 105
Di-n-octyl phthalate	0.333	0.253		mg/Kg		76	34 - 106
Diethyl phthalate	0.333	0.201		mg/Kg		60	45 - 105
Dimethyl phthalate	0.333	0.223		mg/Kg		67	46 - 101
Fluoranthene	0.333	0.200		mg/Kg		60	49 - 102
Fluorene	0.333	0.201		mg/Kg		60	46 - 100
Hexachlorobenzene	0.333	0.187		mg/Kg		56	45 - 101
Hexachlorobutadiene	0.333	0.166		mg/Kg		50	38 - 110
Hexachlorocyclopentadiene	0.333	0.203		mg/Kg		61	31 - 116
Hexachloroethane	0.333	0.217		mg/Kg		65	40 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.233		mg/Kg		70	48 - 104
Isophorone	0.333	0.209		mg/Kg		63	46 - 105
Naphthalene	0.333	0.218		mg/Kg		65	43 - 100
Nitrobenzene	0.333	0.215		mg/Kg		65	43 - 107
N-Nitrosodimethylamine	0.333	0.249		mg/Kg		75	29 - 121
N-Nitrosodiphenylamine	0.333	0.237		mg/Kg		71	46 - 100
N-Nitrosodi-n-propylamine	0.333	0.198		mg/Kg		59	40 - 109
Pentachlorophenol	0.667	0.391		mg/Kg		59	34 - 112
Phenanthrene	0.333	0.209		mg/Kg		63	46 - 100
Phenol	0.333	0.200		mg/Kg		60	42 - 103
Pyrene	0.333	0.224		mg/Kg		67	44 - 102
Pyridine	0.667	0.504		mg/Kg		76	25 - 109
Benzyl alcohol	0.333	0.199		mg/Kg		60	40 - 104
3,3'-Dichlorobenzidine	0.333	0.188		mg/Kg		56	34 - 101

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	69		35 - 105
2-Fluorophenol (Surr)	78		32 - 105
2,4,6-Tribromophenol (Surr)	56		20 - 119
Nitrobenzene-d5 (Surr)	67		34 - 109
Phenol-d5 (Surr)	68		34 - 105
Terphenyl-d14 (Surr)	72		20 - 117

Method: EPA 8081B LL - Organochlorine Pesticides (GC)

Lab Sample ID: MB 180-397976/1-B

Matrix: Sediment

Analysis Batch: 399430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 397976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin (1C)	0.000042	U	0.000042	0.000013	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
alpha-BHC (1C)	0.000042	U	0.000042	0.000010	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
beta-BHC (1C)	0.000042	U	0.000042	0.000011	mg/Kg		05/06/22 19:20	05/20/22 05:54	1

Eurofins Environment Testing Philadelphia, LLC

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 8081B LL - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 180-397976/1-B

Matrix: Sediment

Analysis Batch: 399430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 397976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC (1C)	0.000042	U	0.000042	0.000013	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
gamma-BHC (Lindane) (1C)	0.000042	U	0.000042	0.000011	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
cis-Chlordane (1C)	0.000042	U	0.000042	0.000010	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
trans-Chlordane (1C)	0.000042	U	0.000042	0.0000097	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Chlordane (technical) (1C)	0.00042	U	0.00042	0.00018	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
4,4'-DDD (1C)	0.000042	U	0.000042	0.0000088	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
4,4'-DDE (1C)	0.000042	U	0.000042	0.0000085	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
4,4'-DDT (1C)	0.000042	U	0.000042	0.000030	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Dieldrin (1C)	0.000042	U	0.000042	0.000010	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Endosulfan I (1C)	0.000042	U	0.000042	0.000011	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Endosulfan II (1C)	0.000042	U	0.000042	0.0000092	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Endosulfan sulfate (1C)	0.000042	U	0.000042	0.000019	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Endrin (1C)	0.000042	U	0.000042	0.0000078	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Endrin aldehyde (1C)	0.000042	U	0.000042	0.000015	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Endrin ketone (1C)	0.000042	U	0.000042	0.0000058	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Heptachlor (1C)	0.000042	U	0.000042	0.000013	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Heptachlor epoxide (1C)	0.000042	U	0.000042	0.000011	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Methoxychlor (1C)	0.000042	U	0.000042	0.000016	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Mirex (1C)	0.000042	U	0.000042	0.0000078	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Toxaphene (1C)	0.0017	U	0.0017	0.0011	mg/Kg		05/06/22 19:20	05/20/22 05:54	1
Endosulfan, Total (1C)	0.083	U	0.083	0.021	ug/Kg		05/06/22 19:20	05/20/22 05:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	45		10 - 105	05/06/22 19:20	05/20/22 05:54	1
Tetrachloro-m-xylene (Surr) (2C)	58		10 - 105	05/06/22 19:20	05/20/22 05:54	1
DCB Decachlorobiphenyl (Surr) (1C)	90		25 - 107	05/06/22 19:20	05/20/22 05:54	1
DCB Decachlorobiphenyl (Surr) (2C)	87		25 - 107	05/06/22 19:20	05/20/22 05:54	1

Lab Sample ID: LCS 180-397976/2-B

Matrix: Sediment

Analysis Batch: 399430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 397976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin (1C)	0.00167	0.000851		mg/Kg		51	25 - 139
alpha-BHC (1C)	0.00167	0.000856		mg/Kg		51	30 - 131
beta-BHC (1C)	0.00167	0.000918		mg/Kg		55	26 - 128
delta-BHC (1C)	0.00167	0.000981		mg/Kg		59	20 - 133
gamma-BHC (Lindane) (1C)	0.00167	0.000918		mg/Kg		55	31 - 134
cis-Chlordane (1C)	0.00167	0.000863		mg/Kg		52	25 - 137
trans-Chlordane (1C)	0.00167	0.000846		mg/Kg		51	31 - 131
4,4'-DDD (1C)	0.00167	0.00120		mg/Kg		72	32 - 135
4,4'-DDE (1C)	0.00167	0.00118		mg/Kg		71	28 - 128
4,4'-DDT (1C)	0.00167	0.00117		mg/Kg		70	28 - 121
Dieldrin (1C)	0.00167	0.00112		mg/Kg		67	39 - 124
Endosulfan I (1C)	0.00167	0.000888		mg/Kg		53	24 - 141
Endosulfan II (1C)	0.00167	0.00111		mg/Kg		67	38 - 125
Endosulfan sulfate (1C)	0.00167	0.00121		mg/Kg		73	23 - 130
Endrin (1C)	0.00167	0.00114		mg/Kg		68	32 - 131

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 8081B LL - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 180-397976/2-B

Matrix: Sediment

Analysis Batch: 399430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 397976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin aldehyde (1C)	0.00167	0.00114		mg/Kg		68	27 - 124
Endrin ketone (1C)	0.00167	0.00112		mg/Kg		67	46 - 128
Heptachlor (1C)	0.00167	0.000837		mg/Kg		50	24 - 146
Heptachlor epoxide (1C)	0.00167	0.000928		mg/Kg		56	25 - 142
Methoxychlor (1C)	0.00167	0.00116		mg/Kg		70	31 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr) (1C)	44		10 - 105
Tetrachloro-m-xylene (Surr) (2C)	59		10 - 105
DCB Decachlorobiphenyl (Surr) (1C)	83		25 - 107
DCB Decachlorobiphenyl (Surr) (2C)	89		25 - 107

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-397956/1-C

Matrix: Sediment

Analysis Batch: 398484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 397956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	0.00042	U	0.00042	0.00014	mg/Kg		05/06/22 14:32	05/12/22 14:12	1
PCB-1221 (1C)	0.00042	U	0.00042	0.00015	mg/Kg		05/06/22 14:32	05/12/22 14:12	1
PCB-1232 (1C)	0.00042	U	0.00042	0.00010	mg/Kg		05/06/22 14:32	05/12/22 14:12	1
PCB-1242 (1C)	0.00042	U	0.00042	0.000061	mg/Kg		05/06/22 14:32	05/12/22 14:12	1
PCB-1248 (1C)	0.00042	U	0.00042	0.00010	mg/Kg		05/06/22 14:32	05/12/22 14:12	1
PCB-1254 (1C)	0.00042	U	0.00042	0.00013	mg/Kg		05/06/22 14:32	05/12/22 14:12	1
PCB-1260 (1C)	0.00042	U	0.00042	0.00012	mg/Kg		05/06/22 14:32	05/12/22 14:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr) (1C)	104		33 - 126	05/06/22 14:32	05/12/22 14:12	1
Tetrachloro-m-xylene (Surr) (2C)	99		33 - 126	05/06/22 14:32	05/12/22 14:12	1
DCB Decachlorobiphenyl (Surr) (1C)	109		26 - 170	05/06/22 14:32	05/12/22 14:12	1
DCB Decachlorobiphenyl (Surr) (2C)	109		26 - 170	05/06/22 14:32	05/12/22 14:12	1

Lab Sample ID: LCS 180-397956/2-C

Matrix: Sediment

Analysis Batch: 398484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 397956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016 (1C)	0.0333	0.0325		mg/Kg		98	32 - 126
PCB-1260 (1C)	0.0333	0.0381		mg/Kg		114	40 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr) (1C)	99		33 - 126

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 180-397956/2-C

Matrix: Sediment

Analysis Batch: 398484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 397956

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr) (2C)	96		33 - 126
DCB Decachlorobiphenyl (Surr) (1C)	109		26 - 170
DCB Decachlorobiphenyl (Surr) (2C)	107		26 - 170

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-399173/1-A

Matrix: Sediment

Analysis Batch: 399861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 399173

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	6.0	U	6.0	4.2	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Arsenic	0.10	U	0.10	0.058	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Barium	1.0	U	1.0	0.61	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Antimony	0.20	U	0.20	0.11	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Beryllium	0.10	U	0.10	0.072	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Cadmium	0.10	U	0.10	0.056	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Calcium	50	U	50	20	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Chromium	0.20	U	0.20	0.18	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Cobalt	0.050	U	0.050	0.036	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Copper	0.30	U	0.30	0.21	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Magnesium	50	U	50	4.5	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Manganese	0.50	U	0.50	0.43	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Iron	5.0	U	5.0	4.8	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Lead	0.10	U	0.10	0.066	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Potassium	50	U	50	15	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Nickel	0.10	U	0.10	0.094	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Selenium	0.50	U	0.50	0.12	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Sodium	50	U	50	26	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Silver	0.10	U	0.10	0.028	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Thallium	0.10	U	0.10	0.070	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Vanadium	0.10	U	0.10	0.094	mg/Kg		05/18/22 09:29	05/25/22 02:04	1
Zinc	0.50	U	0.50	0.48	mg/Kg		05/18/22 09:29	05/25/22 02:04	1

Lab Sample ID: LCS 180-399173/2-A

Matrix: Sediment

Analysis Batch: 399861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 399173

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Aluminum	500	456		mg/Kg		91	80 - 120
Arsenic	100	89.5		mg/Kg		89	80 - 120
Barium	100	94.4		mg/Kg		94	80 - 120
Antimony	25.0	25.1		mg/Kg		101	80 - 120
Beryllium	50.0	47.1		mg/Kg		94	80 - 120
Cadmium	50.0	49.0		mg/Kg		98	80 - 120
Calcium	2500	2220		mg/Kg		89	80 - 120
Chromium	50.0	49.8		mg/Kg		100	80 - 120

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QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-399173/2-A

Matrix: Sediment

Analysis Batch: 399861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 399173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	50.0	45.8		mg/Kg		92	80 - 120
Copper	50.0	44.2		mg/Kg		88	80 - 120
Magnesium	2500	2410		mg/Kg		97	80 - 120
Manganese	50.0	44.1		mg/Kg		88	80 - 120
Iron	500	508		mg/Kg		102	80 - 120
Lead	50.0	48.2		mg/Kg		96	80 - 120
Potassium	2500	2320		mg/Kg		93	80 - 120
Nickel	50.0	46.5		mg/Kg		93	80 - 120
Selenium	100	94.4		mg/Kg		94	80 - 120
Sodium	2500	2480		mg/Kg		99	80 - 120
Silver	25.0	23.3		mg/Kg		93	80 - 120
Thallium	100	97.5		mg/Kg		97	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120
Zinc	25.0	22.2		mg/Kg		89	80 - 120

Lab Sample ID: MB 180-399836/1-A

Matrix: Sediment

Analysis Batch: 400135

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 399836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6.0	U	6.0	4.2	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Barium	1.0	U	1.0	0.61	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Antimony	0.20	U	0.20	0.11	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Beryllium	0.10	U	0.10	0.072	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Cadmium	0.10	U	0.10	0.056	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Calcium	50	U	50	20	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Chromium	0.20	U	0.20	0.18	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Magnesium	50	U	50	4.5	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Manganese	0.50	U	0.50	0.43	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Iron	5.0	U	5.0	4.8	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Lead	0.10	U	0.10	0.066	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Selenium	0.50	U	0.50	0.12	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Silver	0.10	U	0.10	0.028	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Thallium	0.10	U	0.10	0.070	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Vanadium	0.10	U	0.10	0.094	mg/Kg		05/24/22 17:41	05/26/22 19:24	1
Zinc	0.50	U	0.50	0.48	mg/Kg		05/24/22 17:41	05/26/22 19:24	1

Lab Sample ID: MB 180-399836/1-A

Matrix: Sediment

Analysis Batch: 400259

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 399836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10	U	0.10	0.058	mg/Kg		05/24/22 17:41	05/27/22 19:00	1
Cobalt	0.050	U	0.050	0.036	mg/Kg		05/24/22 17:41	05/27/22 19:00	1
Copper	0.30	U	0.30	0.21	mg/Kg		05/24/22 17:41	05/27/22 19:00	1
Potassium	50	U	50	15	mg/Kg		05/24/22 17:41	05/27/22 19:00	1
Nickel	0.10	U	0.10	0.094	mg/Kg		05/24/22 17:41	05/27/22 19:00	1
Sodium	50	U	50	26	mg/Kg		05/24/22 17:41	05/27/22 19:00	1

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-399836/2-A

Matrix: Sediment

Analysis Batch: 400135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 399836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	500	410		mg/Kg		82	80 - 120
Barium	100	87.9		mg/Kg		88	80 - 120
Antimony	25.0	21.7		mg/Kg		87	80 - 120
Beryllium	50.0	41.7		mg/Kg		83	80 - 120
Cadmium	50.0	41.5		mg/Kg		83	80 - 120
Calcium	2500	2380		mg/Kg		95	80 - 120
Chromium	50.0	43.7		mg/Kg		87	80 - 120
Magnesium	2500	2020		mg/Kg		81	80 - 120
Manganese	50.0	42.1		mg/Kg		84	80 - 120
Iron	500	439		mg/Kg		88	80 - 120
Lead	50.0	41.7		mg/Kg		83	80 - 120
Selenium	100	85.0		mg/Kg		85	80 - 120
Silver	25.0	20.6		mg/Kg		83	80 - 120
Thallium	100	83.0		mg/Kg		83	80 - 120
Vanadium	50.0	43.5		mg/Kg		87	80 - 120
Zinc	25.0	22.6		mg/Kg		90	80 - 120

Lab Sample ID: LCS 180-399836/2-A

Matrix: Sediment

Analysis Batch: 400259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 399836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	80.9		mg/Kg		81	80 - 120
Cobalt	50.0	41.6		mg/Kg		83	80 - 120
Copper	50.0	40.2		mg/Kg		80	80 - 120
Potassium	2500	2070		mg/Kg		83	80 - 120
Nickel	50.0	41.6		mg/Kg		83	80 - 120
Sodium	2500	2120		mg/Kg		85	80 - 120

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-399994/1-A

Matrix: Sediment

Analysis Batch: 400108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 399994

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.017	U	0.017	0.011	mg/Kg		05/26/22 06:14	05/26/22 14:39	1

Lab Sample ID: LCS 180-399994/2-A

Matrix: Sediment

Analysis Batch: 400108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 399994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.208	0.229		mg/Kg		110	80 - 120

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA 7196A - Chromium, Hexavalent

Lab Sample ID: MB 180-398939/1-A

Matrix: Sediment

Analysis Batch: 399692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 398939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.40	U	0.40	0.21	mg/Kg		05/16/22 11:40	05/23/22 12:39	1

Lab Sample ID: LCSi 180-398939/3-A

Matrix: Sediment

Analysis Batch: 399692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398939

Analyte	Spike Added	LCSi Result	LCSi Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	708	644		mg/Kg		91	80 - 120

Lab Sample ID: LCSS 180-398939/2-A

Matrix: Sediment

Analysis Batch: 399692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398939

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	20.0	17.6		mg/Kg		88	80 - 120

Method: EPA 9014 - Cyanide

Lab Sample ID: MB 180-398256/4-A

Matrix: Sediment

Analysis Batch: 398331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 398256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.50	U	0.50	0.38	mg/Kg		05/10/22 13:45	05/10/22 16:58	1

Lab Sample ID: HLCS 180-398256/2-A

Matrix: Sediment

Analysis Batch: 398331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398256

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.247		mg/Kg		99	90 - 110

Lab Sample ID: LCS 180-398256/3-A

Matrix: Sediment

Analysis Batch: 398331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	23.1	21.6		mg/Kg		94	25 - 150

Lab Sample ID: LLCS 180-398256/1-A

Matrix: Sediment

Analysis Batch: 398331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 398256

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0500	0.0489		mg/Kg		98	90 - 110

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA-Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 180-398507/4

Matrix: Sediment

Analysis Batch: 398507

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	1000	U	1000	970	mg/Kg			05/11/22 13:20	1

Lab Sample ID: LCS 180-398507/5

Matrix: Sediment

Analysis Batch: 398507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	35300	35100		mg/Kg		99	75 - 125

Lab Sample ID: 630-32573-2 MS

Matrix: Sediment

Analysis Batch: 398507

Client Sample ID: C-10 GRAB

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	49000		78200	123000		mg/Kg	✱	95	75 - 125

Lab Sample ID: 630-32573-2 MSD

Matrix: Sediment

Analysis Batch: 398507

Client Sample ID: C-10 GRAB

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	49000		79900	122000		mg/Kg	✱	91	75 - 125	1	20

Lab Sample ID: MB 180-398650/4

Matrix: Sediment

Analysis Batch: 398650

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	1000	U	1000	970	mg/Kg			05/12/22 13:05	1

Lab Sample ID: LCS 180-398650/5

Matrix: Sediment

Analysis Batch: 398650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	35300	34600		mg/Kg		98	75 - 125

Lab Sample ID: MB 180-398864/4

Matrix: Sediment

Analysis Batch: 398864

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	1000	U	1000	970	mg/Kg			05/13/22 13:45	1

QC Sample Results

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method: EPA-Lloyd Kahn - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 180-398864/5

Matrix: Sediment

Analysis Batch: 398864

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Duplicates	35300	36100		mg/Kg		102	75 - 125

QC Association Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

GC/MS Semi VOA

Prep Batch: 398972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	3541	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	3541	
MB 180-398972/1-A	Method Blank	Total/NA	Sediment	3541	
LCS 180-398972/2-A	Lab Control Sample	Total/NA	Sediment	3541	

Analysis Batch: 399156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA 8270E LL	398972
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	EPA 8270E LL	398972
MB 180-398972/1-A	Method Blank	Total/NA	Sediment	EPA 8270E LL	398972
LCS 180-398972/2-A	Lab Control Sample	Total/NA	Sediment	EPA 8270E LL	398972

GC Semi VOA

Prep Batch: 397956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	3541	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	3541	
MB 180-397956/1-C	Method Blank	Total/NA	Sediment	3541	
LCS 180-397956/2-C	Lab Control Sample	Total/NA	Sediment	3541	

Prep Batch: 397976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	3541	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	3541	
MB 180-397976/1-B	Method Blank	Total/NA	Sediment	3541	
LCS 180-397976/2-B	Lab Control Sample	Total/NA	Sediment	3541	

Cleanup Batch: 398480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	3665A	397956
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	3665A	397956
MB 180-397956/1-C	Method Blank	Total/NA	Sediment	3665A	397956
LCS 180-397956/2-C	Lab Control Sample	Total/NA	Sediment	3665A	397956

Cleanup Batch: 398481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	3660B	398480
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	3660B	398480
MB 180-397956/1-C	Method Blank	Total/NA	Sediment	3660B	398480
LCS 180-397956/2-C	Lab Control Sample	Total/NA	Sediment	3660B	398480

Analysis Batch: 398484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA 8082A	398481
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	EPA 8082A	398481
MB 180-397956/1-C	Method Blank	Total/NA	Sediment	EPA 8082A	398481
LCS 180-397956/2-C	Lab Control Sample	Total/NA	Sediment	EPA 8082A	398481

QC Association Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

GC Semi VOA

Cleanup Batch: 399259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	3640A	397976
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	3640A	397976
MB 180-397976/1-B	Method Blank	Total/NA	Sediment	3640A	397976
LCS 180-397976/2-B	Lab Control Sample	Total/NA	Sediment	3640A	397976

Analysis Batch: 399430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA 8081B LL	399259
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	EPA 8081B LL	399259
MB 180-397976/1-B	Method Blank	Total/NA	Sediment	EPA 8081B LL	399259
LCS 180-397976/2-B	Lab Control Sample	Total/NA	Sediment	EPA 8081B LL	399259

Metals

Prep Batch: 399173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	3050B	
MB 180-399173/1-A	Method Blank	Total/NA	Sediment	3050B	
LCS 180-399173/2-A	Lab Control Sample	Total/NA	Sediment	3050B	

Prep Batch: 399836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	3050B	
MB 180-399836/1-A	Method Blank	Total/NA	Sediment	3050B	
LCS 180-399836/2-A	Lab Control Sample	Total/NA	Sediment	3050B	

Analysis Batch: 399861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	EPA 6020B	399173
MB 180-399173/1-A	Method Blank	Total/NA	Sediment	EPA 6020B	399173
LCS 180-399173/2-A	Lab Control Sample	Total/NA	Sediment	EPA 6020B	399173

Prep Batch: 399994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	7471B	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	7471B	
MB 180-399994/1-A	Method Blank	Total/NA	Sediment	7471B	
LCS 180-399994/2-A	Lab Control Sample	Total/NA	Sediment	7471B	

Analysis Batch: 400108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA 7471B	399994
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	EPA 7471B	399994
MB 180-399994/1-A	Method Blank	Total/NA	Sediment	EPA 7471B	399994
LCS 180-399994/2-A	Lab Control Sample	Total/NA	Sediment	EPA 7471B	399994

Analysis Batch: 400135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA 6020B	399836
MB 180-399836/1-A	Method Blank	Total/NA	Sediment	EPA 6020B	399836
LCS 180-399836/2-A	Lab Control Sample	Total/NA	Sediment	EPA 6020B	399836

Eurofins Environment Testing Philadelphia, LLC

QC Association Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Metals

Analysis Batch: 400259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA 6020B	399836
MB 180-399836/1-A	Method Blank	Total/NA	Sediment	EPA 6020B	399836
LCS 180-399836/2-A	Lab Control Sample	Total/NA	Sediment	EPA 6020B	399836

General Chemistry

Analysis Batch: 398192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-1	C-4 GRAB	Total/NA	Sediment	2540G	
630-32573-2	C-10 GRAB	Total/NA	Sediment	2540G	
630-32573-3	C-11 GRAB	Total/NA	Sediment	2540G	
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	2540G	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	2540G	

Prep Batch: 398256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	9010C	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	9010C	
MB 180-398256/4-A	Method Blank	Total/NA	Sediment	9010C	
HLCS 180-398256/2-A	Lab Control Sample	Total/NA	Sediment	9010C	
LCS 180-398256/3-A	Lab Control Sample	Total/NA	Sediment	9010C	
LLCS 180-398256/1-A	Lab Control Sample	Total/NA	Sediment	9010C	

Analysis Batch: 398331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA 9014	398256
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	EPA 9014	398256
MB 180-398256/4-A	Method Blank	Total/NA	Sediment	EPA 9014	398256
HLCS 180-398256/2-A	Lab Control Sample	Total/NA	Sediment	EPA 9014	398256
LCS 180-398256/3-A	Lab Control Sample	Total/NA	Sediment	EPA 9014	398256
LLCS 180-398256/1-A	Lab Control Sample	Total/NA	Sediment	EPA 9014	398256

Analysis Batch: 398507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-1	C-4 GRAB	Total/NA	Sediment	EPA-Lloyd Kahn	
630-32573-2	C-10 GRAB	Total/NA	Sediment	EPA-Lloyd Kahn	
630-32573-3	C-11 GRAB	Total/NA	Sediment	EPA-Lloyd Kahn	
MB 180-398507/4	Method Blank	Total/NA	Sediment	EPA-Lloyd Kahn	
LCS 180-398507/5	Lab Control Sample	Total/NA	Sediment	EPA-Lloyd Kahn	
630-32573-2 MS	C-10 GRAB	Total/NA	Sediment	EPA-Lloyd Kahn	
630-32573-2 MSD	C-10 GRAB	Total/NA	Sediment	EPA-Lloyd Kahn	

Analysis Batch: 398650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA-Lloyd Kahn	
MB 180-398650/4	Method Blank	Total/NA	Sediment	EPA-Lloyd Kahn	
LCS 180-398650/5	Lab Control Sample	Total/NA	Sediment	EPA-Lloyd Kahn	

Analysis Batch: 398864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	EPA-Lloyd Kahn	

QC Association Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

General Chemistry (Continued)

Analysis Batch: 398864 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-398864/4	Method Blank	Total/NA	Sediment	EPA-Lloyd Kahn	
LCS 180-398864/5	Lab Control Sample	Total/NA	Sediment	EPA-Lloyd Kahn	

Prep Batch: 398939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	3060A	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	3060A	
MB 180-398939/1-A	Method Blank	Total/NA	Sediment	3060A	
LCSI 180-398939/3-A	Lab Control Sample	Total/NA	Sediment	3060A	
LCSS 180-398939/2-A	Lab Control Sample	Total/NA	Sediment	3060A	

Analysis Batch: 399692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	EPA 7196A	398939
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	EPA 7196A	398939
MB 180-398939/1-A	Method Blank	Total/NA	Sediment	EPA 7196A	398939
LCSI 180-398939/3-A	Lab Control Sample	Total/NA	Sediment	EPA 7196A	398939
LCSS 180-398939/2-A	Lab Control Sample	Total/NA	Sediment	EPA 7196A	398939

Analysis Batch: 400409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	7196A	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	7196A	

Geotechnical

Analysis Batch: 180797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-1	C-4 GRAB	Total/NA	Sediment	D2216-90	
630-32573-2	C-10 GRAB	Total/NA	Sediment	D2216-90	
630-32573-3	C-11 GRAB	Total/NA	Sediment	D2216-90	
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	D2216-90	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	D2216-90	

Analysis Batch: 181101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-32573-1	C-4 GRAB	Total/NA	Sediment	D422	
630-32573-2	C-10 GRAB	Total/NA	Sediment	D422	
630-32573-3	C-11 GRAB	Total/NA	Sediment	D422	
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Total/NA	Sediment	D422	
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Total/NA	Sediment	D422	

Lab Chronicle

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: C-4 GRAB

Lab Sample ID: 630-32573-1

Date Collected: 04/29/22 08:08

Matrix: Sediment

Date Received: 05/03/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	398192	05/10/22 06:49	BAC	TAL PIT
Total/NA	Analysis	D2216-90		1	180797	06/14/22 19:57	MAP	TAL BUR
Total/NA	Analysis	D422		1	181101	06/14/22 19:58	MAP	TAL BUR

Client Sample ID: C-4 GRAB

Lab Sample ID: 630-32573-1

Date Collected: 04/29/22 08:08

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 38.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA-Lloyd Kahn		1	398507	05/11/22 13:42	DLF	TAL PIT

Client Sample ID: C-10 GRAB

Lab Sample ID: 630-32573-2

Date Collected: 04/29/22 08:58

Matrix: Sediment

Date Received: 05/03/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	398192	05/10/22 06:49	BAC	TAL PIT
Total/NA	Analysis	D2216-90		1	180797	06/14/22 19:57	MAP	TAL BUR
Total/NA	Analysis	D422		1	181101	06/14/22 20:01	MAP	TAL BUR

Client Sample ID: C-10 GRAB

Lab Sample ID: 630-32573-2

Date Collected: 04/29/22 08:58

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA-Lloyd Kahn		1	398507	05/11/22 13:59	DLF	TAL PIT

Client Sample ID: C-11 GRAB

Lab Sample ID: 630-32573-3

Date Collected: 04/29/22 09:24

Matrix: Sediment

Date Received: 05/03/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	398192	05/10/22 06:49	BAC	TAL PIT
Total/NA	Analysis	D2216-90		1	180797	06/14/22 19:57	MAP	TAL BUR
Total/NA	Analysis	D422		1	181101	06/14/22 20:03	MAP	TAL BUR

Client Sample ID: C-11 GRAB

Lab Sample ID: 630-32573-3

Date Collected: 04/29/22 09:24

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 38.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA-Lloyd Kahn		1	398507	05/11/22 14:49	DLF	TAL PIT

Lab Chronicle

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-2 COMPOSITE (C3 + C4)

Lab Sample ID: 630-32573-4

Date Collected: 05/03/22 12:30

Matrix: Sediment

Date Received: 05/03/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	398192	05/10/22 06:49	BAC	TAL PIT
Total/NA	Analysis	7196A		1	400409	05/31/22 09:57	DLL	TAL PIT
Total/NA	Analysis	D2216-90		1	180797	06/14/22 19:57	MAP	TAL BUR
Total/NA	Analysis	D422		1	181101	06/14/22 20:05	MAP	TAL BUR

Client Sample ID: SC-2 COMPOSITE (C3 + C4)

Lab Sample ID: 630-32573-4

Date Collected: 05/03/22 12:30

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 42.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			398972	05/16/22 15:02	SMV	TAL PIT
Total/NA	Analysis	EPA 8270E LL		4	399156	05/18/22 15:26	VVP	TAL PIT
Total/NA	Prep	3541			397976	05/06/22 19:20	CTM	TAL PIT
Total/NA	Cleanup	3640A			399259	05/18/22 16:22	VJC	TAL PIT
Total/NA	Analysis	EPA 8081B LL		5	399430	05/20/22 10:21	DFE	TAL PIT
Total/NA	Prep	3541			397956	05/06/22 14:32	CSC	TAL PIT
Total/NA	Cleanup	3665A			398480	05/12/22 04:22	JMO	TAL PIT
Total/NA	Cleanup	3660B			398481	05/12/22 04:24	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1	398484	05/12/22 21:27	JMO	TAL PIT
Total/NA	Prep	3050B			399836	05/24/22 17:41	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	400135	05/26/22 21:55	RSK	TAL PIT
Total/NA	Prep	3050B			399836	05/24/22 17:41	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	400259	05/27/22 19:14	RSK	TAL PIT
Total/NA	Prep	7471B			399994	05/26/22 07:09	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1	400108	05/26/22 15:12	RJR	TAL PIT
Total/NA	Prep	3060A			398939	05/16/22 11:40	PMH	TAL PIT
Total/NA	Analysis	EPA 7196A		5	399692	05/23/22 12:50	PMH	TAL PIT
Total/NA	Prep	9010C			398256	05/10/22 13:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9014		1	398331	05/10/22 17:37	CMR	TAL PIT
Total/NA	Analysis	EPA-Lloyd Kahn		1	398650	05/12/22 20:23	DLF	TAL PIT

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Date Collected: 05/03/22 12:55

Matrix: Sediment

Date Received: 05/03/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	398192	05/10/22 06:49	BAC	TAL PIT
Total/NA	Analysis	7196A		1	400409	05/31/22 09:57	DLL	TAL PIT
Total/NA	Analysis	D2216-90		1	180797	06/14/22 19:57	MAP	TAL BUR
Total/NA	Analysis	D422		1	181101	06/14/22 20:07	MAP	TAL BUR

Lab Chronicle

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Client Sample ID: SC-5 COMPOSITE (C10 + C11)

Lab Sample ID: 630-32573-5

Date Collected: 05/03/22 12:55

Matrix: Sediment

Date Received: 05/03/22 12:55

Percent Solids: 35.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			398972	05/16/22 15:02	SMV	TAL PIT
Total/NA	Analysis	EPA 8270E LL		4	399156	05/18/22 15:48	VVP	TAL PIT
Total/NA	Prep	3541			397976	05/06/22 19:20	CTM	TAL PIT
Total/NA	Cleanup	3640A			399259	05/18/22 16:22	VJC	TAL PIT
Total/NA	Analysis	EPA 8081B LL		5	399430	05/20/22 10:37	DFE	TAL PIT
Total/NA	Prep	3541			397956	05/06/22 14:32	CSC	TAL PIT
Total/NA	Cleanup	3665A			398480	05/12/22 04:22	JMO	TAL PIT
Total/NA	Cleanup	3660B			398481	05/12/22 04:24	JMO	TAL PIT
Total/NA	Analysis	EPA 8082A		1	398484	05/12/22 21:46	JMO	TAL PIT
Total/NA	Prep	3050B			399173	05/18/22 09:29	KWP	TAL PIT
Total/NA	Analysis	EPA 6020B		1	399861	05/25/22 01:17	RSK	TAL PIT
Total/NA	Prep	7471B			399994	05/26/22 07:09	RJR	TAL PIT
Total/NA	Analysis	EPA 7471B		1	400108	05/26/22 15:13	RJR	TAL PIT
Total/NA	Prep	3060A			398939	05/16/22 11:40	PMH	TAL PIT
Total/NA	Analysis	EPA 7196A		5	399692	05/23/22 12:51	PMH	TAL PIT
Total/NA	Prep	9010C			398256	05/10/22 13:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9014		1	398331	05/10/22 17:39	CMR	TAL PIT
Total/NA	Analysis	EPA-Lloyd Kahn		1	398864	05/13/22 17:46	DLF	TAL PIT

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Accreditation/Certification Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Laboratory: Eurofins Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	VT972	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D2216-90		Sediment	Moisture Content
D422		Sediment	Clay
D422		Sediment	Coarse Sand
D422		Sediment	Fine Sand
D422		Sediment	Gravel
D422		Sediment	Hydrometer Reading 1 - Percent Finer
D422		Sediment	Hydrometer Reading 2 - Percent Finer
D422		Sediment	Hydrometer Reading 3 - Percent Finer
D422		Sediment	Hydrometer Reading 4 - Percent Finer
D422		Sediment	Hydrometer Reading 5 - Percent Finer
D422		Sediment	Hydrometer Reading 6 - Percent Finer
D422		Sediment	Hydrometer Reading 7 - Percent Finer
D422		Sediment	Medium Sand
D422		Sediment	Sand
D422		Sediment	Sieve Size #10 - Percent Finer
D422		Sediment	Sieve Size #100 - Percent Finer
D422		Sediment	Sieve Size #20 - Percent Finer
D422		Sediment	Sieve Size #200 - Percent Finer
D422		Sediment	Sieve Size #4 - Percent Finer
D422		Sediment	Sieve Size #40 - Percent Finer
D422		Sediment	Sieve Size #60 - Percent Finer
D422		Sediment	Sieve Size #80 - Percent Finer
D422		Sediment	Sieve Size 0.375 inch - Percent Finer
D422		Sediment	Sieve Size 0.75 inch - Percent Finer
D422		Sediment	Sieve Size 1 inch - Percent Finer
D422		Sediment	Sieve Size 1.5 inch - Percent Finer
D422		Sediment	Sieve Size 2 inch - Percent Finer
D422		Sediment	Sieve Size 3 inch - Percent Finer
D422		Sediment	Silt

Laboratory: Eurofins Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA005	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Sediment	Percent Moisture
2540G		Sediment	Percent Solids
7196A		Sediment	Cr (III)
EPA 8081B LL	3541	Sediment	Endosulfan, Total (1C)
EPA 8270E LL	3541	Sediment	Cresols, Total

Method Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Method	Method Description	Protocol	Laboratory
EPA 8270E LL	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
EPA 8081B LL	Organochlorine Pesticides (GC)	SW846	TAL PIT
EPA 8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL PIT
EPA 7196A	Chromium, Hexavalent	SW846	TAL PIT
EPA 9014	Cyanide	SW846	TAL PIT
EPA-Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL PIT
D2216-90	Water (Moisture) Content	ASTM	TAL BUR
D422	Grain Size	ASTM	TAL BUR
3050B	Preparation, Metals	SW846	TAL PIT
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	TAL PIT
3541	Automated Soxhlet Extraction (Low Level)	SW846	TAL PIT
3640A	Gel-Permeation Cleanup	SW846	TAL PIT
3660B	Sulfur Cleanup	SW846	TAL PIT
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT
9010C	Cyanide, Distillation	SW846	TAL PIT

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: ST Hudson Engineers, Inc.
Project/Site: South Jersey Port Corp, Camden, NJ

Job ID: 630-32573-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-32573-1	C-4 GRAB	Sediment	04/29/22 08:08	05/03/22 12:55
630-32573-2	C-10 GRAB	Sediment	04/29/22 08:58	05/03/22 12:55
630-32573-3	C-11 GRAB	Sediment	04/29/22 09:24	05/03/22 12:55
630-32573-4	SC-2 COMPOSITE (C3 + C4)	Sediment	05/03/22 12:30	05/03/22 12:55
630-32573-5	SC-5 COMPOSITE (C10 + C11)	Sediment	05/03/22 12:55	05/03/22 12:55



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: Lab PM. Dougherty, Erin	COC No: 630-7639-1	
Shipping/Receiving		Phone: Erin.Dougherty@eurofins.com	Page: 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New Jersey	Job #: 630-32573-1	
Address: 530 Community Drive, Suite 11, South Burlington, VT, 05403		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2OAS E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:		
Due Date Requested: 5/30/2022		Analysis Requested		
TAT Requested (days):		Total Number of Containers		
PO #:		D2216.90/Water (Moisture) Content		
WO #:		D422/Grain Size (Sieve and Hydrometer)		
Project #: 63005446		Field Filtered Sample (Yes or No)		
SSOW#:		Perform MS/MSD (Yes or No)		
Sample Date		Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)
4/29/22		08:08 Eastern		Sediment
4/29/22		08:58 Eastern		Sediment
4/29/22		09:24 Eastern		Sediment
5/3/22		12:30 Eastern		Sediment
5/3/22		12:55 Eastern		Sediment
SC-2 COMPOSITE (C3 + C4) (630-32573-4)				
SC-5 COMPOSITE (C10 + C11) (630-32573-5)				
Sample Identification - Client ID (Lab ID)		Preservation Code:	Special Instructions/Note:	
C-4 GRAB (630-32573-1)				
C-10 GRAB (630-32573-2)				
C-11 GRAB (630-32573-3)				
SC-2 COMPOSITE (C3 + C4) (630-32573-4)				
SC-5 COMPOSITE (C10 + C11) (630-32573-5)				
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Philadelphia, LLC				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		
Empty Kit Relinquished by:		Date:		
Relinquished by: [Signature]		Date/Time: 5/3/22 1700		
Relinquished by:		Date/Time:		
Relinquished by:		Date/Time:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months		
Special Instructions/QC Requirements:		Method of Shipment:		
Received by: [Signature]		Date/Time: 05/04/22 10:55		
Received by: Sam P. Baw		Date/Time:		
Received by:		Date/Time:		
Cooler Temperature(s) °C and Other Remarks:				

SHIP DATE: 03MAY22

ACTWGT: 69.45 LB
CAD: 253948/CAFE3313
DIMS: 25x14x14 IN

BILL SENDER

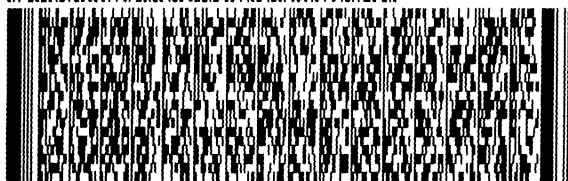
TO

E0307 JUL 1 / 3 03 PM

(802) 660-1990

REF:

DEPT:



FedEx
Express



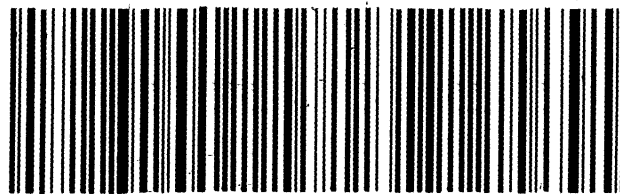
WED - 04 MAY 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403

VT-US BTV

Part # 156148-434 MTW EXP 07/22 ☺



Login Sample Receipt Checklist

Client: ST Hudson Engineers, Inc.

Job Number: 630-32573-1

Login Number: 32573

List Source: Eurofins Environment Testing Philadelphia, LLC

List Number: 1

Creator: Kurz, Chris

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: ST Hudson Engineers, Inc.

Job Number: 630-32573-1

Login Number: 32573

List Number: 2

Creator: Beane, John P

List Source: Eurofins Burlington

List Creation: 05/04/22 01:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ST Hudson Engineers, Inc.

Job Number: 630-32573-1

Login Number: 32573

List Number: 3

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 05/04/22 03:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	