

ANALYTICAL REPORT


Eurofins Environment Testing Philadelphia, LLC
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Laboratory Job ID: 630-31870-1
Client Project/Site: 1A - MWs (Apr/Oct)

For:

Cape May County Municipal Utilities Auth
1523 U.S. Route 9 North
PO BOX 610
Cape May Court House, New Jersey 08210

Attn: Michael M Frisko



Authorized for release by:
5/4/2022 10:38:05 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically “SAFE” if no coliform bacteria are detected. To be considered “SAFE” your report should indicate “<1 cfu/100mL” or “NEG” for the coliform test. If you report indicates a positive result “POS” or a value greater than or equal to one, then your supply is “UNSAFE FOR DRINKING” contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as “grab” samples unless otherwise identified.

· Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins’ online data portal “TotalAccess” will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Erin Dougherty

Project Administrator

5/4/2022 10:38:05 PM



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Definitions/Glossary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Qualifiers

GC/MS 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.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Job ID: 630-31870-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative 630-31870-1

Receipt

The samples were received on 4/22/2022 5:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-251323 recovered outside acceptance criteria, low biased, for trans-1,4-Dichloro-2-butene and trans-1,4-Dichloro-2-butene . A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MW-2 (630-31870-1), MW-3 (630-31870-2), MW-6 (630-31870-3), MW-15 (630-31870-4), MW-20 (630-31870-5), MW-21 (630-31870-6), MW-30 (630-31870-7), MW-31 (630-31870-8), MW-9A (630-31870-9), FIELD BLANK (630-31870-10) and TRIP BLANK (630-31870-11). The requested target analyte list includes Acrolein, Acrolein, Acrylonitrile and Acrylonitrile , an acid-labile compound that degrades in an acidic medium.

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

Metals

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

General Chemistry

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

Field Service / Mobile Lab

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

Detection Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-2

Lab Sample ID: 630-31870-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	20	0.70	ug/L	1		8260D	Total/NA
Chromium	0.0049	J	0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0027	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.0078	J	0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.0051	J B	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.041		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	260		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	160		30	12	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	0.80		0.10	0.050	mg/L	1		350.1	Dissolved
Nitrate, Dissolved	0.33		0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	14.6		0.0100	0.0100	ft	1		Field Parameter	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 630-31870-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.7	J	20	0.70	ug/L	1		8260D	Total/NA
Chromium	0.0054	J	0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0023	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.0084	J	0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.0067	J B	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.034		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	260		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	130		30	12	mg/L	1		SM 2540C	Total/NA
Nitrate, Dissolved	0.54		0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	13.8		0.0100	0.0100	ft	1		Field Parameter	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 630-31870-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	27		20	0.70	ug/L	1		8260D	Total/NA
Cadmium	0.0016	J	0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.0041	J	0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.048		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.68		0.020	0.0080	mg/L	1		200.7 Rev 4.4	Total Recoverable
Lead	0.029		0.015	0.0071	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.020		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.36	B	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.15		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	450		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	230		30	12	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	1.2		0.10	0.050	mg/L	1		350.1	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-6 (Continued)

Lab Sample ID: 630-31870-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate, Dissolved	0.38		0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	17.5		0.0100	0.0100	ft	1		Field Parameter	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 630-31870-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.012		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.0044	J	0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.11		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	260		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	130		30	12	mg/L	1		SM 2540C	Total/NA
Nitrate, Dissolved	0.16		0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	17.4		0.0100	0.0100	ft	1		Field Parameter	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 630-31870-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0037	J	0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0065		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.010	J	0.020	0.0080	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.011		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.097	B	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.13		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	77		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	41		30	12	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	0.068	J	0.10	0.050	mg/L	1		350.1	Dissolved
Nitrate, Dissolved	1.8		0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	17.0		0.0100	0.0100	ft	1		Field Parameter	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 630-31870-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0064	J	0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.013		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.0054	J B	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.017		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	200		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	180		30	12	mg/L	1		SM 2540C	Total/NA
Nitrate, Dissolved	0.32		0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	15.1		0.0100	0.0100	ft	1		Field Parameter	Total/NA

Client Sample ID: MW-30

Lab Sample ID: 630-31870-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.016		0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-30 (Continued)

Lab Sample ID: 630-31870-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0063		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.015	J	0.020	0.0080	mg/L	1		200.7 Rev 4.4	Total Recoverable
Lead	0.022		0.015	0.0071	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.0055	J	0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.026		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.015	J B	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.098		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	100		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	37		30	12	mg/L	1		SM 2540C	Total/NA
Nitrate, Dissolved	0.33		0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	17.9		0.0100	0.0100	ft	1		Field Parameter	Total/NA

Client Sample ID: MW-31

Lab Sample ID: 630-31870-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0068	J	0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0044	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.18		0.020	0.0080	mg/L	1		200.7 Rev 4.4	Total Recoverable
Lead	0.018		0.015	0.0071	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.024		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.11		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	180		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	47		30	12	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	0.59		0.10	0.050	mg/L	1		350.1	Dissolved
Depth to Water from Top of Casing	17.6		0.0100	0.0100	ft	1		Field Parameter	Total/NA

Client Sample ID: MW-9A

Lab Sample ID: 630-31870-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.5		1.0	0.30	ug/L	1		8260D	Total/NA
Cadmium	0.0010	J	0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0039	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.013		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.23		0.0052	0.0010	mg/L	1		200.7	Dissolved
Specific Conductance	160		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	84		30	12	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	2.1		0.10	0.050	mg/L	1		350.1	Dissolved
Depth to Water from Top of Casing	20.3		0.0100	0.0100	ft	1		Field Parameter	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Detection Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-31870-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	20	0.70	ug/L	1		8260D	Total/NA
Methyl Ethyl Ketone	23		10	0.50	ug/L	1		8260D	Total/NA
Zinc	0.024	B	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable

Client Sample ID: TRIP BLANK

Lab Sample ID: 630-31870-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	20	0.70	ug/L	1		8260D	Total/NA
Methyl Ethyl Ketone	24		10	0.50	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Environment Testing Philadelphia, LLC

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-2

Lab Sample ID: 630-31870-1

Date Collected: 04/22/22 14:20

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 16:08	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 16:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		60 - 140					04/25/22 16:08	1
4-Bromofluorobenzene (Surr)	109		60 - 140					04/25/22 16:08	1
Dibromofluoromethane (Surr)	100		60 - 140					04/25/22 16:08	1
Toluene-d8 (Surr)	104		60 - 140					04/25/22 16:08	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.4	J	20	0.70	ug/L			05/04/22 12:01	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 12:01	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 12:01	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 12:01	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 12:01	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 12:01	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 12:01	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 12:01	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 12:01	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:01	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 12:01	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 12:01	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 12:01	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 12:01	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 12:01	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:01	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:01	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:01	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 12:01	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 12:01	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 12:01	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 12:01	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 12:01	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 12:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 12:01	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 12:01	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:01	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 12:01	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:01	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-2

Lab Sample ID: 630-31870-1

Date Collected: 04/22/22 14:20

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:01	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 12:01	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 12:01	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 12:01	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/04/22 12:01	1
Dibromofluoromethane (Surr)	99		80 - 120		05/04/22 12:01	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/04/22 12:01	1
Toluene-d8 (Surr)	97		80 - 120		05/04/22 12:01	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:06	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:06	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:06	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:06	1
Chromium	0.0049	J	0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:06	1
Cobalt	0.0027	J	0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:06	1
Copper	ND		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:06	1
Lead	ND		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 18:06	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:06	1
Vanadium	0.0078	J	0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:06	1
Zinc	0.0051	J B	0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:06	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:38	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:38	1
Barium	0.041		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 17:38	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	260		5.0	1.7	umhos/cm			04/25/22 17:38	1
Total Dissolved Solids	160		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	0.80		0.10	0.050	mg/L			04/26/22 12:38	1
Nitrate, Dissolved	0.33		0.10	0.040	mg/L			04/25/22 03:25	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	14.6		0.0100	0.0100	ft			04/22/22 14:20	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-3

Lab Sample ID: 630-31870-2

Date Collected: 04/22/22 11:00

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 16:32	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 16:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		60 - 140					04/25/22 16:32	1
4-Bromofluorobenzene (Surr)	108		60 - 140					04/25/22 16:32	1
Dibromofluoromethane (Surr)	97		60 - 140					04/25/22 16:32	1
Toluene-d8 (Surr)	104		60 - 140					04/25/22 16:32	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.7	J	20	0.70	ug/L			05/04/22 12:22	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 12:22	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 12:22	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 12:22	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 12:22	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 12:22	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 12:22	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 12:22	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 12:22	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:22	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 12:22	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 12:22	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 12:22	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 12:22	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 12:22	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:22	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:22	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:22	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 12:22	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 12:22	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 12:22	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 12:22	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 12:22	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 12:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 12:22	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 12:22	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:22	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 12:22	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:22	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-3

Lab Sample ID: 630-31870-2

Date Collected: 04/22/22 11:00

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:22	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 12:22	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 12:22	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 12:22	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 12:22	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120					05/04/22 12:22	1
Dibromofluoromethane (Surr)	100		80 - 120					05/04/22 12:22	1
4-Bromofluorobenzene (Surr)	93		80 - 120					05/04/22 12:22	1
Toluene-d8 (Surr)	96		80 - 120					05/04/22 12:22	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:03	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:03	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:03	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:03	1
Chromium	0.0054	J	0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:03	1
Cobalt	0.0023	J	0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:03	1
Copper	ND		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:03	1
Lead	ND		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 18:03	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:03	1
Vanadium	0.0084	J	0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:03	1
Zinc	0.0067	J B	0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:03	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:35	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:35	1
Barium	0.034		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 17:35	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	260		5.0	1.7	umhos/cm			04/25/22 17:32	1
Total Dissolved Solids	130		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/26/22 12:41	1
Nitrate, Dissolved	0.54		0.10	0.040	mg/L			04/25/22 03:51	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	13.8		0.0100	0.0100	ft			04/22/22 11:00	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-6

Lab Sample ID: 630-31870-3

Date Collected: 04/22/22 12:40

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 16:55	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 16:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		60 - 140					04/25/22 16:55	1
4-Bromofluorobenzene (Surr)	107		60 - 140					04/25/22 16:55	1
Dibromofluoromethane (Surr)	100		60 - 140					04/25/22 16:55	1
Toluene-d8 (Surr)	105		60 - 140					04/25/22 16:55	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	27		20	0.70	ug/L			05/04/22 12:42	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 12:42	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 12:42	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 12:42	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 12:42	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 12:42	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 12:42	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 12:42	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 12:42	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:42	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 12:42	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 12:42	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 12:42	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 12:42	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 12:42	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:42	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:42	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:42	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 12:42	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 12:42	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 12:42	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 12:42	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 12:42	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 12:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 12:42	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 12:42	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:42	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 12:42	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:42	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-6

Lab Sample ID: 630-31870-3

Date Collected: 04/22/22 12:40

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 12:42	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 12:42	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 12:42	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 12:42	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 12:42	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120					05/04/22 12:42	1
Dibromofluoromethane (Surr)	99		80 - 120					05/04/22 12:42	1
4-Bromofluorobenzene (Surr)	94		80 - 120					05/04/22 12:42	1
Toluene-d8 (Surr)	97		80 - 120					05/04/22 12:42	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:13	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:13	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:13	1
Cadmium	0.0016	J	0.0050	0.0010	mg/L		04/26/22 16:09	05/03/22 01:13	1
Chromium	0.0041	J	0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:13	1
Cobalt	0.048		0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:13	1
Copper	0.68		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:13	1
Lead	0.029		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 18:13	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:13	1
Vanadium	0.020		0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:13	1
Zinc	0.36	B	0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:13	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:25	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:25	1
Barium	0.15		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 17:25	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	450		5.0	1.7	umhos/cm			04/25/22 17:36	1
Total Dissolved Solids	230		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	1.2		0.10	0.050	mg/L			04/26/22 12:43	1
Nitrate, Dissolved	0.38		0.10	0.040	mg/L			04/25/22 03:51	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	17.5		0.0100	0.0100	ft			04/22/22 12:40	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-15

Lab Sample ID: 630-31870-4

Date Collected: 04/22/22 12:20

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 17:18	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 17:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		60 - 140					04/25/22 17:18	1
4-Bromofluorobenzene (Surr)	107		60 - 140					04/25/22 17:18	1
Dibromofluoromethane (Surr)	100		60 - 140					04/25/22 17:18	1
Toluene-d8 (Surr)	103		60 - 140					04/25/22 17:18	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			05/04/22 13:02	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 13:02	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 13:02	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 13:02	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 13:02	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 13:02	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 13:02	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 13:02	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 13:02	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:02	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 13:02	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 13:02	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 13:02	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 13:02	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 13:02	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:02	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:02	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:02	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 13:02	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 13:02	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 13:02	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 13:02	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 13:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 13:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 13:02	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 13:02	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:02	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 13:02	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:02	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-15

Lab Sample ID: 630-31870-4

Date Collected: 04/22/22 12:20

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:02	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 13:02	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 13:02	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 13:02	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		05/04/22 13:02	1
Dibromofluoromethane (Surr)	100		80 - 120		05/04/22 13:02	1
4-Bromofluorobenzene (Surr)	94		80 - 120		05/04/22 13:02	1
Toluene-d8 (Surr)	96		80 - 120		05/04/22 13:02	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:10	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:10	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:10	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	05/03/22 01:10	1
Chromium	ND		0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:10	1
Cobalt	0.012		0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:10	1
Copper	ND		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:10	1
Lead	ND		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 18:10	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:10	1
Vanadium	0.0044	J	0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:10	1
Zinc	ND		0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:10	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:22	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:22	1
Barium	0.11		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 17:22	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	260		5.0	1.7	umhos/cm			04/25/22 17:30	1
Total Dissolved Solids	130		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/26/22 12:45	1
Nitrate, Dissolved	0.16		0.10	0.040	mg/L			04/25/22 03:51	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	17.4		0.0100	0.0100	ft			04/22/22 12:20	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-20

Lab Sample ID: 630-31870-5

Date Collected: 04/22/22 12:00

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 17:41	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 17:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		60 - 140					04/25/22 17:41	1
4-Bromofluorobenzene (Surr)	108		60 - 140					04/25/22 17:41	1
Dibromofluoromethane (Surr)	101		60 - 140					04/25/22 17:41	1
Toluene-d8 (Surr)	105		60 - 140					04/25/22 17:41	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			05/04/22 13:22	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 13:22	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 13:22	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 13:22	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 13:22	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 13:22	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 13:22	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 13:22	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 13:22	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:22	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 13:22	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 13:22	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 13:22	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 13:22	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 13:22	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:22	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:22	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:22	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 13:22	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 13:22	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 13:22	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 13:22	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 13:22	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 13:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 13:22	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 13:22	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:22	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 13:22	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:22	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-20

Lab Sample ID: 630-31870-5

Date Collected: 04/22/22 12:00

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:22	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 13:22	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 13:22	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 13:22	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		05/04/22 13:22	1
Dibromofluoromethane (Surr)	99		80 - 120		05/04/22 13:22	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/04/22 13:22	1
Toluene-d8 (Surr)	96		80 - 120		05/04/22 13:22	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:16	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:16	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:16	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	05/03/22 01:17	1
Chromium	0.0037	J	0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:16	1
Cobalt	0.0065		0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:16	1
Copper	0.010	J	0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:16	1
Lead	ND		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 18:16	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:16	1
Vanadium	0.011		0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:16	1
Zinc	0.097	B	0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:16	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:00	04/29/22 02:16	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:00	04/29/22 02:16	1
Barium	0.13		0.0052	0.0010	mg/L		04/27/22 19:00	04/29/22 02:16	1
Silver	ND	^3+ ^5-	0.010	0.0041	mg/L		04/27/22 19:00	04/29/22 02:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	77		5.0	1.7	umhos/cm			04/25/22 17:47	1
Total Dissolved Solids	41		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	0.068	J	0.10	0.050	mg/L			04/26/22 12:47	1
Nitrate, Dissolved	1.8		0.10	0.040	mg/L			04/25/22 03:51	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	17.0		0.0100	0.0100	ft			04/22/22 12:00	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-21

Lab Sample ID: 630-31870-6

Date Collected: 04/22/22 14:48

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 18:04	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 18:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		60 - 140					04/25/22 18:04	1
4-Bromofluorobenzene (Surr)	108		60 - 140					04/25/22 18:04	1
Dibromofluoromethane (Surr)	101		60 - 140					04/25/22 18:04	1
Toluene-d8 (Surr)	105		60 - 140					04/25/22 18:04	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			05/04/22 13:42	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 13:42	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 13:42	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 13:42	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 13:42	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 13:42	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 13:42	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 13:42	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 13:42	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:42	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 13:42	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 13:42	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 13:42	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 13:42	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 13:42	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:42	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:42	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:42	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 13:42	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 13:42	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 13:42	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 13:42	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 13:42	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 13:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 13:42	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 13:42	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:42	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 13:42	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:42	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-21

Lab Sample ID: 630-31870-6

Date Collected: 04/22/22 14:48

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 13:42	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 13:42	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 13:42	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 13:42	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		05/04/22 13:42	1
Dibromofluoromethane (Surr)	98		80 - 120		05/04/22 13:42	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/04/22 13:42	1
Toluene-d8 (Surr)	96		80 - 120		05/04/22 13:42	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:19	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:19	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:19	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:19	1
Chromium	0.0064	J	0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:19	1
Cobalt	ND		0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:19	1
Copper	ND		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:19	1
Lead	ND		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 18:19	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:19	1
Vanadium	0.013		0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:19	1
Zinc	0.0054	J B	0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:19	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:32	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:32	1
Barium	0.017		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 17:32	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	200		5.0	1.7	umhos/cm			04/25/22 15:30	1
Total Dissolved Solids	180		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/26/22 12:49	1
Nitrate, Dissolved	0.32		0.10	0.040	mg/L			04/25/22 03:51	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	15.1		0.0100	0.0100	ft			04/22/22 14:48	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-30

Lab Sample ID: 630-31870-7

Date Collected: 04/22/22 12:50

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 18:28	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 18:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		60 - 140					04/25/22 18:28	1
4-Bromofluorobenzene (Surr)	106		60 - 140					04/25/22 18:28	1
Dibromofluoromethane (Surr)	101		60 - 140					04/25/22 18:28	1
Toluene-d8 (Surr)	107		60 - 140					04/25/22 18:28	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			05/04/22 14:02	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 14:02	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 14:02	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 14:02	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 14:02	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 14:02	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 14:02	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 14:02	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 14:02	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:02	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 14:02	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 14:02	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 14:02	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 14:02	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 14:02	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:02	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:02	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:02	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 14:02	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 14:02	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 14:02	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 14:02	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 14:02	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 14:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 14:02	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 14:02	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:02	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 14:02	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:02	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-30

Lab Sample ID: 630-31870-7

Date Collected: 04/22/22 12:50

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:02	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 14:02	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 14:02	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 14:02	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/04/22 14:02	1
Dibromofluoromethane (Surr)	100		80 - 120		05/04/22 14:02	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/04/22 14:02	1
Toluene-d8 (Surr)	96		80 - 120		05/04/22 14:02	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:25	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:25	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:25	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:25	1
Chromium	0.016		0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:25	1
Cobalt	0.0063		0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:25	1
Copper	0.015	J	0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:25	1
Lead	0.022		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 18:25	1
Nickel	0.0055	J	0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:25	1
Vanadium	0.026		0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:25	1
Zinc	0.015	J B	0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:25	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:19	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:19	1
Barium	0.098		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 17:19	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	100		5.0	1.7	umhos/cm			04/25/22 17:39	1
Total Dissolved Solids	37		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/26/22 12:51	1
Nitrate, Dissolved	0.33		0.10	0.040	mg/L			04/25/22 03:51	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	17.9		0.0100	0.0100	ft			04/22/22 12:50	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-31

Lab Sample ID: 630-31870-8

Date Collected: 04/22/22 12:25

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 18:51	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 18:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		60 - 140					04/25/22 18:51	1
4-Bromofluorobenzene (Surr)	108		60 - 140					04/25/22 18:51	1
Dibromofluoromethane (Surr)	100		60 - 140					04/25/22 18:51	1
Toluene-d8 (Surr)	102		60 - 140					04/25/22 18:51	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			05/04/22 14:23	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 14:23	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 14:23	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 14:23	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 14:23	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 14:23	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 14:23	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 14:23	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 14:23	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:23	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 14:23	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 14:23	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 14:23	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 14:23	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 14:23	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:23	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:23	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:23	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 14:23	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 14:23	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 14:23	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 14:23	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 14:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 14:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 14:23	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 14:23	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:23	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 14:23	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:23	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-31

Lab Sample ID: 630-31870-8

Date Collected: 04/22/22 12:25

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:23	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 14:23	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 14:23	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 14:23	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 14:23	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120					05/04/22 14:23	1
Dibromofluoromethane (Surr)	100		80 - 120					05/04/22 14:23	1
4-Bromofluorobenzene (Surr)	93		80 - 120					05/04/22 14:23	1
Toluene-d8 (Surr)	96		80 - 120					05/04/22 14:23	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:22	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:22	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:22	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	05/03/22 01:23	1
Chromium	0.0068	J	0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:22	1
Cobalt	0.0044	J	0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:22	1
Copper	0.18		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:22	1
Lead	0.018		0.015	0.0071	mg/L		04/26/22 16:09	05/03/22 01:23	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:22	1
Vanadium	0.024		0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:22	1
Zinc	ND		0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:22	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:29	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:29	1
Barium	0.11		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 17:29	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	180		5.0	1.7	umhos/cm			04/25/22 17:29	1
Total Dissolved Solids	47		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	0.59		0.10	0.050	mg/L			04/26/22 14:24	1
Nitrate, Dissolved	ND		0.10	0.040	mg/L			04/25/22 03:51	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	17.6		0.0100	0.0100	ft			04/22/22 12:25	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-9A

Lab Sample ID: 630-31870-9

Date Collected: 04/22/22 13:50

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 19:14	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 19:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		60 - 140					04/25/22 19:14	1
4-Bromofluorobenzene (Surr)	105		60 - 140					04/25/22 19:14	1
Dibromofluoromethane (Surr)	99		60 - 140					04/25/22 19:14	1
Toluene-d8 (Surr)	105		60 - 140					04/25/22 19:14	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			05/04/22 14:43	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 14:43	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 14:43	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 14:43	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 14:43	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 14:43	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 14:43	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Chlorobenzene	1.5		1.0	0.30	ug/L			05/04/22 14:43	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 14:43	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 14:43	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:43	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 14:43	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 14:43	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 14:43	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 14:43	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 14:43	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:43	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:43	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:43	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 14:43	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 14:43	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 14:43	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 14:43	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 14:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 14:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 14:43	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 14:43	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:43	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 14:43	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:43	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-9A

Lab Sample ID: 630-31870-9

Date Collected: 04/22/22 13:50

Matrix: Ground Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 14:43	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 14:43	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 14:43	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 14:43	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 14:43	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120					05/04/22 14:43	1
Dibromofluoromethane (Surr)	100		80 - 120					05/04/22 14:43	1
4-Bromofluorobenzene (Surr)	93		80 - 120					05/04/22 14:43	1
Toluene-d8 (Surr)	96		80 - 120					05/04/22 14:43	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 17:42	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 17:42	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 17:42	1
Cadmium	0.0010	J	0.0050	0.0010	mg/L		04/26/22 16:09	05/03/22 00:39	1
Chromium	ND		0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 17:42	1
Cobalt	0.0039	J	0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 17:42	1
Copper	ND		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 17:42	1
Lead	ND		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 17:42	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 17:42	1
Vanadium	0.013		0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 17:42	1
Zinc	ND		0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 17:42	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:04	05/02/22 17:44	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:04	05/02/22 17:44	1
Barium	0.23		0.0052	0.0010	mg/L		04/27/22 19:04	05/02/22 17:44	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:04	05/02/22 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	160		5.0	1.7	umhos/cm			04/25/22 17:43	1
Total Dissolved Solids	84		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	2.1		0.10	0.050	mg/L			04/26/22 14:31	1
Nitrate, Dissolved	ND		0.10	0.040	mg/L			04/25/22 03:51	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	20.3		0.0100	0.0100	ft			04/22/22 13:50	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-31870-10

Date Collected: 04/22/22 10:50

Matrix: Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 11:29	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 11:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		60 - 140					04/25/22 11:29	1
4-Bromofluorobenzene (Surr)	108		60 - 140					04/25/22 11:29	1
Dibromofluoromethane (Surr)	102		60 - 140					04/25/22 11:29	1
Toluene-d8 (Surr)	103		60 - 140					04/25/22 11:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13	J	20	0.70	ug/L			05/04/22 15:03	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 15:03	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 15:03	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 15:03	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 15:03	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Methyl Ethyl Ketone	23		10	0.50	ug/L			05/04/22 15:03	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 15:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 15:03	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 15:03	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 15:03	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 15:03	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 15:03	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 15:03	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 15:03	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 15:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 15:03	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 15:03	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 15:03	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 15:03	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 15:03	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 15:03	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 15:03	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 15:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 15:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 15:03	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 15:03	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 15:03	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 15:03	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 15:03	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-31870-10

Date Collected: 04/22/22 10:50

Matrix: Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 15:03	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 15:03	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 15:03	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 15:03	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		05/04/22 15:03	1
Dibromofluoromethane (Surr)	103		80 - 120		05/04/22 15:03	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/04/22 15:03	1
Toluene-d8 (Surr)	96		80 - 120		05/04/22 15:03	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 18:28	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 18:28	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:28	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 18:28	1
Chromium	ND		0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 18:28	1
Cobalt	ND		0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 18:28	1
Copper	ND		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 18:28	1
Lead	ND		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 18:28	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 18:28	1
Vanadium	ND		0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 18:28	1
Zinc	0.024	B	0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 18:28	1

Method: 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:41	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 17:41	1
Barium	ND		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 17:41	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			04/26/22 15:30	1
Total Dissolved Solids	ND		30	12	mg/L			04/25/22 07:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/26/22 14:33	1
Nitrate, Dissolved	ND		0.10	0.040	mg/L			04/25/22 03:51	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 630-31870-11

Date Collected: 04/22/22 07:45

Matrix: Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 11:52	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 630-31870-11

Date Collected: 04/22/22 07:45

Matrix: Water

Date Received: 04/22/22 17:25

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 11:52	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		60 - 140					04/25/22 11:52	1
4-Bromofluorobenzene (Surr)	110		60 - 140					04/25/22 11:52	1
Dibromofluoromethane (Surr)	99		60 - 140					04/25/22 11:52	1
Toluene-d8 (Surr)	103		60 - 140					04/25/22 11:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 15:23	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 15:23	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 15:23	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 15:23	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 15:23	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 15:23	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 15:23	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 15:23	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 15:23	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 15:23	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 15:23	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 15:23	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 15:23	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 15:23	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 15:23	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 15:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Acetone	18 J		20	0.70	ug/L			05/04/22 15:23	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 15:23	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 15:23	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 15:23	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 15:23	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 15:23	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 15:23	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 15:23	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 15:23	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 15:23	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 15:23	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 15:23	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 15:23	1

Client Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 630-31870-11

Date Collected: 04/22/22 07:45

Matrix: Water

Date Received: 04/22/22 17:25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	24		10	0.50	ug/L			05/04/22 15:23	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 15:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 15:23	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		05/04/22 15:23	1
Dibromofluoromethane (Surr)	99		80 - 120		05/04/22 15:23	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/04/22 15:23	1
Toluene-d8 (Surr)	95		80 - 120		05/04/22 15:23	1

Surrogate Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (60-140)	BFB (60-140)	DBFM (60-140)	TOL (60-140)
630-31870-1	MW-2	99	109	100	104
630-31870-2	MW-3	102	108	97	104
630-31870-3	MW-6	103	107	100	105
630-31870-4	MW-15	104	107	100	103
630-31870-5	MW-20	98	108	101	105
630-31870-6	MW-21	100	108	101	105
630-31870-7	MW-30	103	106	101	107
630-31870-8	MW-31	103	108	100	102
630-31870-9	MW-9A	98	105	99	105

Surrogate Legend
 DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (60-140)	BFB (60-140)	DBFM (60-140)	TOL (60-140)
630-31870-10	FIELD BLANK	102	108	102	103
630-31870-11	TRIP BLANK	99	110	99	103
LCS 410-247881/1003	Lab Control Sample	100	109	97	107
MB 410-247881/5	Method Blank	101	110	101	103

Surrogate Legend
 DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	DBFM (80-120)	BFB (80-120)	TOL (80-120)
630-31870-1	MW-2	100	99	93	97
630-31870-2	MW-3	102	100	93	96
630-31870-3	MW-6	98	99	94	97
630-31870-4	MW-15	98	100	94	96
630-31870-5	MW-20	98	99	93	96
630-31870-6	MW-21	98	98	93	96
630-31870-7	MW-30	100	100	93	96
630-31870-8	MW-31	99	100	93	96
630-31870-9	MW-9A	101	100	93	96

Surrogate Legend
 DCA = 1,2-Dichloroethane-d4 (Surr)
 DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: Cape May County Municipal Utilities Auth

Job ID: 630-31870-1

Project/Site: 1A - MWs (Apr/Oct)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	DBFM	BFB	TOL
		(80-120)	(80-120)	(80-120)	(80-120)
630-31870-10	FIELD BLANK	101	103	93	96
630-31870-11	TRIP BLANK	99	99	93	95
LCS 410-251323/5	Lab Control Sample	98	99	98	99
LCS 410-251323/8	Lab Control Sample	99	98	94	97
LCSD 410-251323/6	Lab Control Sample Dup	97	98	99	98
LCSD 410-251323/9	Lab Control Sample Dup	99	98	95	97
MB 410-251323/12	Method Blank	100	99	93	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-247881/5
Matrix: Water
Analysis Batch: 247881

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/25/22 10:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/25/22 10:42	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/25/22 10:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		60 - 140					04/25/22 10:42	1
4-Bromofluorobenzene (Surr)	110		60 - 140					04/25/22 10:42	1
Dibromofluoromethane (Surr)	101		60 - 140					04/25/22 10:42	1
Toluene-d8 (Surr)	103		60 - 140					04/25/22 10:42	1

Lab Sample ID: LCS 410-247881/1003
Matrix: Water
Analysis Batch: 247881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	19.4		ug/L		97	60 - 140
1,2-Dibromoethane	20.0	19.8		ug/L		99	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	100		60 - 140				
4-Bromofluorobenzene (Surr)	109		60 - 140				
Dibromofluoromethane (Surr)	97		60 - 140				
Toluene-d8 (Surr)	107		60 - 140				

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-251323/12
Matrix: Water
Analysis Batch: 251323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		20	0.30	ug/L			05/04/22 11:21	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/04/22 11:21	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 11:21	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 11:21	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/04/22 11:21	1
Acetone	ND		20	0.70	ug/L			05/04/22 11:21	1
Chloroform	ND		1.0	0.30	ug/L			05/04/22 11:21	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/04/22 11:21	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/04/22 11:21	1
Benzene	ND		1.0	0.30	ug/L			05/04/22 11:21	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Methyl bromide	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Methyl chloride	ND		1.0	0.20	ug/L			05/04/22 11:21	1
Methylene bromide	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Chloroethane	ND		1.0	0.20	ug/L			05/04/22 11:21	1

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-251323/12

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 251323

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	ND		1.0	0.40	ug/L			05/04/22 11:21	1
2-Hexanone	ND		10	0.40	ug/L			05/04/22 11:21	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/04/22 11:21	1
Bromoform	ND		4.0	1.0	ug/L			05/04/22 11:21	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/04/22 11:21	1
Methyl iodide	ND		1.0	0.30	ug/L			05/04/22 11:21	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/04/22 11:21	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 11:21	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/04/22 11:21	1
Styrene	ND		5.0	0.30	ug/L			05/04/22 11:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 11:21	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/04/22 11:21	1
Tetrachloroethene	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Toluene	ND		1.0	0.20	ug/L			05/04/22 11:21	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/04/22 11:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/04/22 11:21	1
trans-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/04/22 11:21	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/04/22 11:21	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 11:21	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/04/22 11:21	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/04/22 11:21	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/04/22 11:21	1
Vinyl acetate	ND		10	2.0	ug/L			05/04/22 11:21	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/04/22 11:21	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/04/22 11:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/04/22 11:21	1
Dibromofluoromethane (Surr)	99		80 - 120		05/04/22 11:21	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/04/22 11:21	1
Toluene-d8 (Surr)	96		80 - 120		05/04/22 11:21	1

Lab Sample ID: LCS 410-251323/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 251323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	20.0	18.6		ug/L		93	62 - 122
Acrylonitrile	100	98.4		ug/L		98	60 - 129
Chlorobenzene	20.0	18.7		ug/L		93	80 - 120
2-Chloro-1,3-butadiene	20.0	18.9		ug/L		95	70 - 121
cis-1,2-Dichloroethylene	20.0	19.3		ug/L		97	80 - 125
cis-1,3-Dichloropropene	20.0	18.7		ug/L		93	75 - 120
Carbon tetrachloride	20.0	18.5		ug/L		92	64 - 134

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-251323/5

Matrix: Water

Analysis Batch: 251323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	20.0	19.4		ug/L		97	71 - 120
1,2-Dibromoethane	20.0	19.1		ug/L		95	77 - 120
Acetone	250	279		ug/L		111	54 - 157
Chloroform	20.0	19.1		ug/L		95	80 - 120
o-Dichlorobenzene	20.0	18.4		ug/L		92	80 - 120
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
Benzene	20.0	18.6		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	19.5		ug/L		97	73 - 124
Methyl bromide	20.0	19.8		ug/L		99	53 - 128
Methyl chloride	20.0	22.2		ug/L		111	56 - 121
1,4-Dioxane	500	471		ug/L		94	63 - 146
Methylene bromide	20.0	19.5		ug/L		97	80 - 120
Chloroethane	20.0	19.4		ug/L		97	55 - 123
Ethylbenzene	20.0	18.3		ug/L		91	80 - 120
2-Hexanone	250	272		ug/L		109	56 - 135
Carbon disulfide	20.0	20.7		ug/L		104	65 - 128
Methacrylonitrile	150	152		ug/L		101	73 - 124
Bromoform	20.0	18.5		ug/L		92	51 - 120
Methylene Chloride	20.0	18.9		ug/L		94	80 - 120
Bromodichloromethane	20.0	19.5		ug/L		97	71 - 120
Methyl iodide	20.0	20.0		ug/L		100	73 - 125
1,1-Dichloroethane	20.0	18.4		ug/L		92	80 - 120
1,1-Dichloroethylene	20.0	18.5		ug/L		93	80 - 131
4-Methyl-2-pentanone	250	263		ug/L		105	62 - 133
Dichlorodifluoromethane	20.0	20.7		ug/L		103	41 - 127
Propionitrile	150	150		ug/L		100	58 - 151
Styrene	20.0	18.4		ug/L		92	80 - 120
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	78 - 120
Isobutyl alcohol	500	471		ug/L		94	61 - 136
1,2-Dichloropropane	20.0	19.1		ug/L		95	80 - 120
Methyl Ethyl Ketone	250	267		ug/L		107	59 - 135
Tetrachloroethene	20.0	18.8		ug/L		94	80 - 120
Toluene	20.0	18.3		ug/L		91	80 - 120
trans-1,4-Dichloro-2-butene	100	55.4		ug/L		55	33 - 143
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	72 - 120
trans-1,2-Dichloroethylene	20.0	18.6		ug/L		93	80 - 126
Methyl methacrylate	20.0	19.2		ug/L		96	61 - 121
trans-1,3-Dichloropropene	20.0	18.6		ug/L		93	67 - 120
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	67 - 126
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/L		89	47 - 131
1,1,2-Trichloroethane	20.0	19.1		ug/L		96	80 - 120
Ethyl methacrylate	20.0	18.5		ug/L		92	59 - 141
Trichloroethylene	20.0	18.7		ug/L		93	80 - 120
Trichlorofluoromethane	20.0	18.3		ug/L		91	55 - 135
1,2,3-Trichloropropane	20.0	18.6		ug/L		93	75 - 124
Bromochloromethane	20.0	19.5		ug/L		97	80 - 120
Vinyl chloride	20.0	19.5		ug/L		98	56 - 120
Xylenes, Total	60.0	55.0		ug/L		92	80 - 120

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-251323/5

Matrix: Water

Analysis Batch: 251323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCS 410-251323/8

Matrix: Water

Analysis Batch: 251323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Acetonitrile	150	151		ug/L		101	66 - 149
Pentachloroethane	20.0	18.3		ug/L		91	70 - 120
Vinyl acetate	100	121		ug/L		121	63 - 145

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: LCSD 410-251323/6

Matrix: Water

Analysis Batch: 251323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Acrolein	150	142		ug/L		95	47 - 136	4	30
Allyl chloride	20.0	17.7		ug/L		88	62 - 122	5	30
Acrylonitrile	100	94.4		ug/L		94	60 - 129	4	30
Chlorobenzene	20.0	17.9		ug/L		90	80 - 120	4	30
2-Chloro-1,3-butadiene	20.0	18.1		ug/L		91	70 - 121	4	30
cis-1,2-Dichloroethylene	20.0	18.2		ug/L		91	80 - 125	6	30
cis-1,3-Dichloropropene	20.0	17.8		ug/L		89	75 - 120	5	30
Carbon tetrachloride	20.0	17.7		ug/L		89	64 - 134	4	30
Chlorodibromomethane	20.0	18.1		ug/L		91	71 - 120	7	30
1,2-Dibromoethane	20.0	18.3		ug/L		92	77 - 120	4	30
Acetone	250	262		ug/L		105	54 - 157	6	30
Chloroform	20.0	17.9		ug/L		89	80 - 120	6	30
o-Dichlorobenzene	20.0	17.3		ug/L		86	80 - 120	6	30
1,4-Dichlorobenzene	20.0	17.5		ug/L		88	80 - 120	6	30
Benzene	20.0	17.9		ug/L		89	80 - 120	4	30
1,2-Dichloroethane	20.0	18.6		ug/L		93	73 - 124	5	30
Methyl bromide	20.0	18.8		ug/L		94	53 - 128	5	30
Methyl chloride	20.0	21.6		ug/L		108	56 - 121	3	30
1,4-Dioxane	500	459		ug/L		92	63 - 146	3	30
Methylene bromide	20.0	18.5		ug/L		92	80 - 120	5	30
Chloroethane	20.0	18.6		ug/L		93	55 - 123	4	30
Ethylbenzene	20.0	17.8		ug/L		89	80 - 120	3	30
2-Hexanone	250	257		ug/L		103	56 - 135	6	30

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-251323/6

Matrix: Water

Analysis Batch: 251323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
Carbon disulfide	20.0	19.9		ug/L		100	65 - 128	4	30
Methacrylonitrile	150	144		ug/L		96	73 - 124	5	30
Bromoform	20.0	18.2		ug/L		91	51 - 120	2	30
Methylene Chloride	20.0	18.0		ug/L		90	80 - 120	5	30
Bromodichloromethane	20.0	18.3		ug/L		92	71 - 120	6	30
Methyl iodide	20.0	19.0		ug/L		95	73 - 125	5	30
1,1-Dichloroethane	20.0	17.6		ug/L		88	80 - 120	4	30
1,1-Dichloroethylene	20.0	18.0		ug/L		90	80 - 131	3	30
4-Methyl-2-pentanone	250	249		ug/L		100	62 - 133	5	30
Dichlorodifluoromethane	20.0	19.7		ug/L		99	41 - 127	5	30
Propionitrile	150	150		ug/L		100	58 - 151	0	30
Styrene	20.0	17.4		ug/L		87	80 - 120	6	30
1,1,1,2-Tetrachloroethane	20.0	17.8		ug/L		89	78 - 120	3	30
Isobutyl alcohol	500	452		ug/L		90	61 - 136	4	30
1,2-Dichloropropane	20.0	18.6		ug/L		93	80 - 120	3	30
Methyl Ethyl Ketone	250	250		ug/L		100	59 - 135	6	30
Tetrachloroethene	20.0	18.0		ug/L		90	80 - 120	5	30
Toluene	20.0	17.7		ug/L		89	80 - 120	3	30
trans-1,4-Dichloro-2-butene	100	56.6		ug/L		57	33 - 143	2	30
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/L		89	72 - 120	5	30
trans-1,2-Dichloroethylene	20.0	17.8		ug/L		89	80 - 126	4	30
Methyl methacrylate	20.0	18.2		ug/L		91	61 - 121	5	30
trans-1,3-Dichloropropene	20.0	17.8		ug/L		89	67 - 120	4	30
1,1,1-Trichloroethane	20.0	17.9		ug/L		89	67 - 126	3	30
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/L		83	47 - 131	8	30
1,1,2-Trichloroethane	20.0	18.1		ug/L		90	80 - 120	6	30
Ethyl methacrylate	20.0	17.7		ug/L		89	59 - 141	4	30
Trichloroethylene	20.0	18.0		ug/L		90	80 - 120	4	30
Trichlorofluoromethane	20.0	17.5		ug/L		88	55 - 135	4	30
1,2,3-Trichloropropane	20.0	17.3		ug/L		87	75 - 124	7	30
Bromochloromethane	20.0	18.6		ug/L		93	80 - 120	4	30
Vinyl chloride	20.0	18.5		ug/L		92	56 - 120	6	30
Xylenes, Total	60.0	53.3		ug/L		89	80 - 120	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 410-251323/9

Matrix: Water

Analysis Batch: 251323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD
									Limit
Acetonitrile	150	158		ug/L		106	66 - 149	4	30
Pentachloroethane	20.0	17.7		ug/L		88	70 - 120	3	30
Vinyl acetate	100	122		ug/L		122	63 - 145	1	30

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-251323/9
Matrix: Water
Analysis Batch: 251323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Method: 200.7 - Dissolved Metals

Lab Sample ID: MB 410-249172/1-A
Matrix: Water
Analysis Batch: 249829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:00	04/29/22 02:03	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:00	04/29/22 02:03	1
Barium	ND		0.0052	0.0010	mg/L		04/27/22 19:00	04/29/22 02:03	1
Silver	ND	^3+ ^5-	0.010	0.0041	mg/L		04/27/22 19:00	04/29/22 02:03	1

Lab Sample ID: LCS 410-249172/2-A
Matrix: Water
Analysis Batch: 249829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.500	0.516		mg/L		103	85 - 115
Selenium	0.100	0.101		mg/L		101	85 - 115
Barium	0.500	0.544		mg/L		109	85 - 115
Silver	0.0500	0.0530	^3+ ^5-	mg/L		106	85 - 115

Lab Sample ID: MB 410-249173/1-A
Matrix: Water
Analysis Batch: 250798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 16:39	1
Selenium	ND		0.052	0.016	mg/L		04/27/22 19:03	05/02/22 16:39	1
Barium	ND		0.0052	0.0010	mg/L		04/27/22 19:03	05/02/22 16:39	1
Silver	ND	^5-	0.010	0.0041	mg/L		04/27/22 19:03	05/02/22 16:39	1

Lab Sample ID: LCS 410-249173/2-A
Matrix: Water
Analysis Batch: 250798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.500	0.540		mg/L		108	85 - 115
Selenium	0.100	0.108		mg/L		108	85 - 115
Barium	0.500	0.509		mg/L		102	85 - 115
Silver	0.0500	0.0467	^5-	mg/L		93	85 - 115

QC Sample Results

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 200.7 - Dissolved Metals (Continued)

Lab Sample ID: 630-31870-5 MS
Matrix: Ground Water
Analysis Batch: 249829

Client Sample ID: MW-20
Prep Type: Dissolved
Prep Batch: 249172

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Arsenic	ND		0.500	0.523		mg/L		105	70 - 130	
Selenium	ND		0.100	0.0977		mg/L		98	70 - 130	
Barium	0.13		0.500	0.684		mg/L		111	70 - 130	
Silver	ND	^3+ ^5-	0.0500	0.0550	^3+ ^5-	mg/L		110	70 - 130	

Lab Sample ID: 630-31870-5 MSD
Matrix: Ground Water
Analysis Batch: 249829

Client Sample ID: MW-20
Prep Type: Dissolved
Prep Batch: 249172

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Arsenic	ND		0.500	0.540		mg/L		108	70 - 130	3	20
Selenium	ND		0.100	0.104		mg/L		104	70 - 130	6	20
Barium	0.13		0.500	0.690		mg/L		112	70 - 130	1	20
Silver	ND	^3+ ^5-	0.0500	0.0535	^3+ ^5-	mg/L		107	70 - 130	3	20

Lab Sample ID: 630-31870-5 DU
Matrix: Ground Water
Analysis Batch: 249829

Client Sample ID: MW-20
Prep Type: Dissolved
Prep Batch: 249172

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Barium	0.13		0.130		mg/L		0.4	20
Silver	ND	^3+ ^5-	ND	^3+	mg/L		NC	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 410-248597/1-A
Matrix: Water
Analysis Batch: 250150

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 248597

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Thallium	ND		0.030	0.0081	mg/L		04/26/22 16:09	04/29/22 17:35	1
Selenium	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 17:35	1
Antimony	ND		0.050	0.016	mg/L		04/26/22 16:09	04/29/22 17:35	1
Barium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 17:35	1
Beryllium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 17:35	1
Cadmium	ND		0.0050	0.0010	mg/L		04/26/22 16:09	04/29/22 17:35	1
Chromium	ND		0.015	0.0030	mg/L		04/26/22 16:09	04/29/22 17:35	1
Cobalt	ND		0.0050	0.0015	mg/L		04/26/22 16:09	04/29/22 17:35	1
Copper	ND		0.020	0.0080	mg/L		04/26/22 16:09	04/29/22 17:35	1
Lead	ND		0.015	0.0071	mg/L		04/26/22 16:09	04/29/22 17:35	1
Nickel	ND		0.010	0.0021	mg/L		04/26/22 16:09	04/29/22 17:35	1
Silver	ND	^5-	0.010	0.0040	mg/L		04/26/22 16:09	04/29/22 17:35	1
Vanadium	ND		0.010	0.0019	mg/L		04/26/22 16:09	04/29/22 17:35	1
Zinc	0.00595	J	0.020	0.0037	mg/L		04/26/22 16:09	04/29/22 17:35	1

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 410-248597/1-A
Matrix: Water
Analysis Batch: 250910

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 248597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/26/22 16:09	05/03/22 00:33	1

Lab Sample ID: LCS 410-248597/2-A
Matrix: Water
Analysis Batch: 250150

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 248597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.0924		mg/L		92	85 - 115
Selenium	0.100	0.102		mg/L		102	85 - 115
Antimony	0.100	0.0865		mg/L		86	85 - 115
Barium	0.500	0.497		mg/L		99	85 - 115
Beryllium	0.0500	0.0487		mg/L		97	85 - 115
Cadmium	0.0500	0.0502		mg/L		101	85 - 115
Chromium	0.500	0.517		mg/L		103	85 - 115
Cobalt	0.500	0.507		mg/L		101	85 - 115
Copper	0.500	0.513		mg/L		103	85 - 115
Lead	0.0500	0.0497		mg/L		99	85 - 115
Nickel	0.500	0.495		mg/L		99	85 - 115
Silver	0.0500	0.0554	^5-	mg/L		111	85 - 115
Vanadium	0.500	0.495		mg/L		99	85 - 115
Zinc	0.500	0.483		mg/L		97	85 - 115

Lab Sample ID: LCS 410-248597/2-A
Matrix: Water
Analysis Batch: 250910

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 248597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.500	0.513		mg/L		103	85 - 115

Lab Sample ID: 630-31870-9 MS
Matrix: Ground Water
Analysis Batch: 250150

Client Sample ID: MW-9A
Prep Type: Total Recoverable
Prep Batch: 248597

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		0.100	0.0914		mg/L		91	70 - 130
Selenium	ND		0.100	0.0896		mg/L		90	70 - 130
Antimony	ND		0.100	0.0876		mg/L		88	70 - 130
Barium	0.24		0.500	0.742		mg/L		100	70 - 130
Beryllium	ND		0.0500	0.0483		mg/L		97	70 - 130
Chromium	ND		0.500	0.510		mg/L		102	70 - 130
Cobalt	0.0039	J	0.500	0.509		mg/L		101	70 - 130
Copper	ND		0.500	0.517		mg/L		103	70 - 130
Lead	ND		0.0500	0.0441		mg/L		88	70 - 130
Nickel	ND		0.500	0.493		mg/L		99	70 - 130
Silver	ND	^5-	0.0500	0.0543	^5-	mg/L		109	70 - 130
Vanadium	0.013		0.500	0.501		mg/L		98	70 - 130
Zinc	ND		0.500	0.484		mg/L		97	70 - 130

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 630-31870-9 MS
Matrix: Ground Water
Analysis Batch: 250910

Client Sample ID: MW-9A
Prep Type: Total Recoverable
Prep Batch: 248597

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.0010	J	0.0500	0.0516		mg/L		101	70 - 130

Lab Sample ID: 630-31870-9 DU
Matrix: Ground Water
Analysis Batch: 250150

Client Sample ID: MW-9A
Prep Type: Total Recoverable
Prep Batch: 248597

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Antimony	ND		ND		mg/L		NC	20
Barium	0.24		0.244		mg/L		0.6	20
Beryllium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	0.0039	J	0.00526	F5	mg/L		30	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Silver	ND	^5-	ND		mg/L		NC	20
Vanadium	0.013		0.0116		mg/L		9	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: 630-31870-9 DU
Matrix: Ground Water
Analysis Batch: 250910

Client Sample ID: MW-9A
Prep Type: Total Recoverable
Prep Batch: 248597

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.0010	J	ND		mg/L		NC	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 410-248536/17
Matrix: Water
Analysis Batch: 248536

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/26/22 11:53	1

Lab Sample ID: LCS 410-248536/15
Matrix: Water
Analysis Batch: 248536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, Dissolved	3.00	2.97		mg/L		99	90 - 110

Lab Sample ID: LCSD 410-248536/16
Matrix: Water
Analysis Batch: 248536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, Dissolved	3.00	2.97		mg/L		99	90 - 110	0	15

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 630-31870-R-4 MS
Matrix: Ground Water
Analysis Batch: 248536

Client Sample ID: 630-31870-R-4 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, Dissolved	0.068	J	2.50	2.46		mg/L		96	90 - 110

Lab Sample ID: 630-31870-R-4 DU
Matrix: Ground Water
Analysis Batch: 248536

Client Sample ID: 630-31870-R-4 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia, Dissolved	0.068	J	ND		mg/L		NC	20

Lab Sample ID: MB 410-248596/17
Matrix: Water
Analysis Batch: 248596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/26/22 14:22	1

Lab Sample ID: LCS 410-248596/15
Matrix: Water
Analysis Batch: 248596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, Dissolved	3.00	2.82		mg/L		94	90 - 110

Lab Sample ID: LCSD 410-248596/16
Matrix: Water
Analysis Batch: 248596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, Dissolved	3.00	2.91		mg/L		97	90 - 110	3	15

Lab Sample ID: 630-31870-8 MS
Matrix: Ground Water
Analysis Batch: 248596

Client Sample ID: MW-31
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, Dissolved	0.59		2.50	2.88		mg/L		91	90 - 110

Lab Sample ID: 630-31870-8 DU
Matrix: Ground Water
Analysis Batch: 248596

Client Sample ID: MW-31
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia, Dissolved	0.59		0.538		mg/L		10	20

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 410-248165/3
Matrix: Water
Analysis Batch: 248165

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			04/25/22 15:23	1

Lab Sample ID: MB 410-248165/61
Matrix: Water
Analysis Batch: 248165

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			04/25/22 16:57	1

Lab Sample ID: MB 410-248165/91
Matrix: Water
Analysis Batch: 248165

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			04/25/22 17:41	1

Lab Sample ID: LCS 410-248165/4
Matrix: Water
Analysis Batch: 248165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	147	147		umhos/cm		100	97 - 103

Lab Sample ID: LCS 410-248165/64
Matrix: Water
Analysis Batch: 248165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	147	147		umhos/cm		100	97 - 103

Lab Sample ID: LCS 410-248165/92
Matrix: Water
Analysis Batch: 248165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	147	147		umhos/cm		100	97 - 103

Lab Sample ID: 630-31870-6 DU
Matrix: Ground Water
Analysis Batch: 248165

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	200		200		umhos/cm		1	5

Lab Sample ID: 630-31870-9 DU
Matrix: Ground Water
Analysis Batch: 248165

Client Sample ID: MW-9A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	160		161		umhos/cm		0.3	5

QC Sample Results

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 410-248592/3
Matrix: Water
Analysis Batch: 248592

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			04/26/22 15:15	1

Lab Sample ID: LCS 410-248592/4
Matrix: Water
Analysis Batch: 248592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	147	145		umhos/cm		98	97 - 103

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-247871/1
Matrix: Water
Analysis Batch: 247871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			04/25/22 07:28	1

Lab Sample ID: LCS 410-247871/2
Matrix: Water
Analysis Batch: 247871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	200		mg/L		100	72 - 127

QC Association Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

GC/MS VOA

Analysis Batch: 247881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Total/NA	Ground Water	624.1	
630-31870-2	MW-3	Total/NA	Ground Water	624.1	
630-31870-3	MW-6	Total/NA	Ground Water	624.1	
630-31870-4	MW-15	Total/NA	Ground Water	624.1	
630-31870-5	MW-20	Total/NA	Ground Water	624.1	
630-31870-6	MW-21	Total/NA	Ground Water	624.1	
630-31870-7	MW-30	Total/NA	Ground Water	624.1	
630-31870-8	MW-31	Total/NA	Ground Water	624.1	
630-31870-9	MW-9A	Total/NA	Ground Water	624.1	
630-31870-10	FIELD BLANK	Total/NA	Water	624.1	
630-31870-11	TRIP BLANK	Total/NA	Water	624.1	
MB 410-247881/5	Method Blank	Total/NA	Water	624.1	
LCS 410-247881/1003	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 251323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Total/NA	Ground Water	8260D	
630-31870-2	MW-3	Total/NA	Ground Water	8260D	
630-31870-3	MW-6	Total/NA	Ground Water	8260D	
630-31870-4	MW-15	Total/NA	Ground Water	8260D	
630-31870-5	MW-20	Total/NA	Ground Water	8260D	
630-31870-6	MW-21	Total/NA	Ground Water	8260D	
630-31870-7	MW-30	Total/NA	Ground Water	8260D	
630-31870-8	MW-31	Total/NA	Ground Water	8260D	
630-31870-9	MW-9A	Total/NA	Ground Water	8260D	
630-31870-10	FIELD BLANK	Total/NA	Water	8260D	
630-31870-11	TRIP BLANK	Total/NA	Water	8260D	
MB 410-251323/12	Method Blank	Total/NA	Water	8260D	
LCS 410-251323/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 410-251323/8	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-251323/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 410-251323/9	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 248597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Total Recoverable	Ground Water	200.7	
630-31870-2	MW-3	Total Recoverable	Ground Water	200.7	
630-31870-3	MW-6	Total Recoverable	Ground Water	200.7	
630-31870-4	MW-15	Total Recoverable	Ground Water	200.7	
630-31870-5	MW-20	Total Recoverable	Ground Water	200.7	
630-31870-6	MW-21	Total Recoverable	Ground Water	200.7	
630-31870-7	MW-30	Total Recoverable	Ground Water	200.7	
630-31870-8	MW-31	Total Recoverable	Ground Water	200.7	
630-31870-9	MW-9A	Total Recoverable	Ground Water	200.7	
630-31870-10	FIELD BLANK	Total Recoverable	Water	200.7	
MB 410-248597/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 410-248597/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
630-31870-9 MS	MW-9A	Total Recoverable	Ground Water	200.7	
630-31870-9 DU	MW-9A	Total Recoverable	Ground Water	200.7	

QC Association Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Metals

Prep Batch: 249172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-5	MW-20	Dissolved	Ground Water	Non-Digest Prep	
MB 410-249172/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-249172/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
630-31870-5 MS	MW-20	Dissolved	Ground Water	Non-Digest Prep	
630-31870-5 MSD	MW-20	Dissolved	Ground Water	Non-Digest Prep	
630-31870-5 DU	MW-20	Dissolved	Ground Water	Non-Digest Prep	

Prep Batch: 249173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Dissolved	Ground Water	Non-Digest Prep	
630-31870-2	MW-3	Dissolved	Ground Water	Non-Digest Prep	
630-31870-3	MW-6	Dissolved	Ground Water	Non-Digest Prep	
630-31870-4	MW-15	Dissolved	Ground Water	Non-Digest Prep	
630-31870-6	MW-21	Dissolved	Ground Water	Non-Digest Prep	
630-31870-7	MW-30	Dissolved	Ground Water	Non-Digest Prep	
630-31870-8	MW-31	Dissolved	Ground Water	Non-Digest Prep	
630-31870-9	MW-9A	Dissolved	Ground Water	Non-Digest Prep	
630-31870-10	FIELD BLANK	Dissolved	Water	Non-Digest Prep	
MB 410-249173/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-249173/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 249829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-5	MW-20	Dissolved	Ground Water	200.7	249172
MB 410-249172/1-A	Method Blank	Total/NA	Water	200.7	249172
LCS 410-249172/2-A	Lab Control Sample	Total/NA	Water	200.7	249172
630-31870-5 MS	MW-20	Dissolved	Ground Water	200.7	249172
630-31870-5 MSD	MW-20	Dissolved	Ground Water	200.7	249172
630-31870-5 DU	MW-20	Dissolved	Ground Water	200.7	249172

Analysis Batch: 250150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-2	MW-3	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-3	MW-6	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-4	MW-15	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-5	MW-20	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-6	MW-21	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-7	MW-30	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-8	MW-31	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-9	MW-9A	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-10	FIELD BLANK	Total Recoverable	Water	200.7 Rev 4.4	248597
MB 410-248597/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	248597
LCS 410-248597/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	248597
630-31870-9 MS	MW-9A	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-9 DU	MW-9A	Total Recoverable	Ground Water	200.7 Rev 4.4	248597

Analysis Batch: 250798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Dissolved	Ground Water	200.7	249173
630-31870-2	MW-3	Dissolved	Ground Water	200.7	249173

QC Association Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Metals (Continued)

Analysis Batch: 250798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-3	MW-6	Dissolved	Ground Water	200.7	249173
630-31870-4	MW-15	Dissolved	Ground Water	200.7	249173
630-31870-6	MW-21	Dissolved	Ground Water	200.7	249173
630-31870-7	MW-30	Dissolved	Ground Water	200.7	249173
630-31870-8	MW-31	Dissolved	Ground Water	200.7	249173
630-31870-9	MW-9A	Dissolved	Ground Water	200.7	249173
630-31870-10	FIELD BLANK	Dissolved	Water	200.7	249173
MB 410-249173/1-A	Method Blank	Total/NA	Water	200.7	249173
LCS 410-249173/2-A	Lab Control Sample	Total/NA	Water	200.7	249173

Analysis Batch: 250910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-3	MW-6	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-4	MW-15	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-5	MW-20	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-8	MW-31	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-9	MW-9A	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
MB 410-248597/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	248597
LCS 410-248597/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	248597
630-31870-9 MS	MW-9A	Total Recoverable	Ground Water	200.7 Rev 4.4	248597
630-31870-9 DU	MW-9A	Total Recoverable	Ground Water	200.7 Rev 4.4	248597

General Chemistry

Analysis Batch: 247807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Dissolved	Ground Water	353.2	
630-31870-2	MW-3	Dissolved	Ground Water	353.2	
630-31870-3	MW-6	Dissolved	Ground Water	353.2	
630-31870-4	MW-15	Dissolved	Ground Water	353.2	
630-31870-5	MW-20	Dissolved	Ground Water	353.2	
630-31870-6	MW-21	Dissolved	Ground Water	353.2	
630-31870-7	MW-30	Dissolved	Ground Water	353.2	
630-31870-8	MW-31	Dissolved	Ground Water	353.2	
630-31870-9	MW-9A	Dissolved	Ground Water	353.2	
630-31870-10	FIELD BLANK	Dissolved	Water	353.2	

Analysis Batch: 247871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Total/NA	Ground Water	SM 2540C	
630-31870-2	MW-3	Total/NA	Ground Water	SM 2540C	
630-31870-3	MW-6	Total/NA	Ground Water	SM 2540C	
630-31870-4	MW-15	Total/NA	Ground Water	SM 2540C	
630-31870-5	MW-20	Total/NA	Ground Water	SM 2540C	
630-31870-6	MW-21	Total/NA	Ground Water	SM 2540C	
630-31870-7	MW-30	Total/NA	Ground Water	SM 2540C	
630-31870-8	MW-31	Total/NA	Ground Water	SM 2540C	
630-31870-9	MW-9A	Total/NA	Ground Water	SM 2540C	
630-31870-10	FIELD BLANK	Total/NA	Water	SM 2540C	
MB 410-247871/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 410-247871/2	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

General Chemistry

Analysis Batch: 248165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Total/NA	Ground Water	SM 2510B	
630-31870-2	MW-3	Total/NA	Ground Water	SM 2510B	
630-31870-3	MW-6	Total/NA	Ground Water	SM 2510B	
630-31870-4	MW-15	Total/NA	Ground Water	SM 2510B	
630-31870-5	MW-20	Total/NA	Ground Water	SM 2510B	
630-31870-6	MW-21	Total/NA	Ground Water	SM 2510B	
630-31870-7	MW-30	Total/NA	Ground Water	SM 2510B	
630-31870-8	MW-31	Total/NA	Ground Water	SM 2510B	
630-31870-9	MW-9A	Total/NA	Ground Water	SM 2510B	
MB 410-248165/3	Method Blank	Total/NA	Water	SM 2510B	
MB 410-248165/61	Method Blank	Total/NA	Water	SM 2510B	
MB 410-248165/91	Method Blank	Total/NA	Water	SM 2510B	
LCS 410-248165/4	Lab Control Sample	Total/NA	Water	SM 2510B	
LCS 410-248165/64	Lab Control Sample	Total/NA	Water	SM 2510B	
LCS 410-248165/92	Lab Control Sample	Total/NA	Water	SM 2510B	
630-31870-6 DU	MW-21	Total/NA	Ground Water	SM 2510B	
630-31870-9 DU	MW-9A	Total/NA	Ground Water	SM 2510B	

Analysis Batch: 248536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Dissolved	Ground Water	350.1	
630-31870-2	MW-3	Dissolved	Ground Water	350.1	
630-31870-3	MW-6	Dissolved	Ground Water	350.1	
630-31870-4	MW-15	Dissolved	Ground Water	350.1	
630-31870-5	MW-20	Dissolved	Ground Water	350.1	
630-31870-6	MW-21	Dissolved	Ground Water	350.1	
630-31870-7	MW-30	Dissolved	Ground Water	350.1	
MB 410-248536/17	Method Blank	Total/NA	Water	350.1	
LCS 410-248536/15	Lab Control Sample	Total/NA	Water	350.1	
LCS 410-248536/16	Lab Control Sample Dup	Total/NA	Water	350.1	
630-31870-R-4 MS	630-31870-R-4 MS	Total/NA	Ground Water	350.1	
630-31870-R-4 DU	630-31870-R-4 DU	Total/NA	Ground Water	350.1	

Analysis Batch: 248592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-10	FIELD BLANK	Total/NA	Water	SM 2510B	
MB 410-248592/3	Method Blank	Total/NA	Water	SM 2510B	
LCS 410-248592/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 248596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-8	MW-31	Dissolved	Ground Water	350.1	
630-31870-9	MW-9A	Dissolved	Ground Water	350.1	
630-31870-10	FIELD BLANK	Dissolved	Water	350.1	
MB 410-248596/17	Method Blank	Total/NA	Water	350.1	
LCS 410-248596/15	Lab Control Sample	Total/NA	Water	350.1	
LCS 410-248596/16	Lab Control Sample Dup	Total/NA	Water	350.1	
630-31870-8 MS	MW-31	Dissolved	Ground Water	350.1	
630-31870-8 DU	MW-31	Dissolved	Ground Water	350.1	

QC Association Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Field Service / Mobile Lab

Analysis Batch: 15227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-31870-1	MW-2	Total/NA	Ground Water	Field Parameter	
630-31870-2	MW-3	Total/NA	Ground Water	Field Parameter	
630-31870-3	MW-6	Total/NA	Ground Water	Field Parameter	
630-31870-4	MW-15	Total/NA	Ground Water	Field Parameter	
630-31870-5	MW-20	Total/NA	Ground Water	Field Parameter	
630-31870-6	MW-21	Total/NA	Ground Water	Field Parameter	
630-31870-7	MW-30	Total/NA	Ground Water	Field Parameter	
630-31870-8	MW-31	Total/NA	Ground Water	Field Parameter	
630-31870-9	MW-9A	Total/NA	Ground Water	Field Parameter	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-2

Lab Sample ID: 630-31870-1

Date Collected: 04/22/22 14:20

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 16:08	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 12:01	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:03	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:38	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:06	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248536	04/26/22 12:38	JCG7	ELLE
Dissolved	Analysis	353.2		1	247807	04/25/22 03:25	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 17:38	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 14:20	CAQ	EETP

Client Sample ID: MW-3

Lab Sample ID: 630-31870-2

Date Collected: 04/22/22 11:00

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 16:32	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 12:22	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:03	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:35	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:03	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248536	04/26/22 12:41	JCG7	ELLE
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 17:32	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 11:00	CAQ	EETP

Client Sample ID: MW-6

Lab Sample ID: 630-31870-3

Date Collected: 04/22/22 12:40

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 16:55	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 12:42	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:03	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:25	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250910	05/03/22 01:13	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:13	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248536	04/26/22 12:43	JCG7	ELLE

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-6

Lab Sample ID: 630-31870-3

Date Collected: 04/22/22 12:40

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 17:36	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 12:40	CAQ	EETP

Client Sample ID: MW-15

Lab Sample ID: 630-31870-4

Date Collected: 04/22/22 12:20

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 17:18	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 13:02	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:03	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:22	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250910	05/03/22 01:10	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:10	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248536	04/26/22 12:45	JCG7	ELLE
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 17:30	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 12:20	CAQ	EETP

Client Sample ID: MW-20

Lab Sample ID: 630-31870-5

Date Collected: 04/22/22 12:00

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 17:41	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 13:22	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249172	04/27/22 19:00	UJLA	ELLE
Dissolved	Analysis	200.7		1	249829	04/29/22 02:16	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250910	05/03/22 01:17	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:16	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248536	04/26/22 12:47	JCG7	ELLE
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 17:47	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 12:00	CAQ	EETP

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-21

Lab Sample ID: 630-31870-6

Date Collected: 04/22/22 14:48

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 18:04	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 13:42	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:03	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:32	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:19	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248536	04/26/22 12:49	JCG7	ELLE
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 15:30	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 14:48	CAQ	EETP

Client Sample ID: MW-30

Lab Sample ID: 630-31870-7

Date Collected: 04/22/22 12:50

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 18:28	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 14:02	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:03	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:19	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:25	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248536	04/26/22 12:51	JCG7	ELLE
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 17:39	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 12:50	CAQ	EETP

Client Sample ID: MW-31

Lab Sample ID: 630-31870-8

Date Collected: 04/22/22 12:25

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 18:51	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 14:23	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:03	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:29	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250910	05/03/22 01:23	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:22	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248596	04/26/22 14:24	JCG7	ELLE

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: MW-31

Lab Sample ID: 630-31870-8

Date Collected: 04/22/22 12:25

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 17:29	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 12:25	CAQ	EETP

Client Sample ID: MW-9A

Lab Sample ID: 630-31870-9

Date Collected: 04/22/22 13:50

Matrix: Ground Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 19:14	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 14:43	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:04	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:44	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250910	05/03/22 00:39	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 17:42	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248596	04/26/22 14:31	JCG7	ELLE
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248165	04/25/22 17:43	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15227	04/22/22 13:50	CAQ	EETP

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-31870-10

Date Collected: 04/22/22 10:50

Matrix: Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 11:29	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 15:03	TQ4J	ELLE
Dissolved	Prep	Non-Digest Prep			249173	04/27/22 19:03	UJLA	ELLE
Dissolved	Analysis	200.7		1	250798	05/02/22 17:41	T8CQ	ELLE
Total Recoverable	Prep	200.7			248597	04/26/22 16:09	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	250150	04/29/22 18:28	T8CQ	ELLE
Dissolved	Analysis	350.1		1	248596	04/26/22 14:33	JCG7	ELLE
Dissolved	Analysis	353.2		1	247807	04/25/22 03:51	USJM	ELLE
Total/NA	Analysis	SM 2510B		1	248592	04/26/22 15:30	DI9Q	ELLE
Total/NA	Analysis	SM 2540C		1	247871	04/25/22 07:28	M98K	ELLE

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 630-31870-11

Date Collected: 04/22/22 07:45

Matrix: Water

Date Received: 04/22/22 17:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	247881	04/25/22 11:52	TQ4J	ELLE
Total/NA	Analysis	8260D		1	251323	05/04/22 15:23	TQ4J	ELLE

Laboratory References:

EETP = Eurofins Environment Testing Philadelphia, LLC, 213 Witmer Road, Horsham, PA 19044-0962, TEL (215)355-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Accreditation/Certification Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA093 (Horsham)	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
Field Parameter		Ground Water	Depth to Water from Top of Casing

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	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
353.2		Ground Water	Nitrate, Dissolved
353.2		Water	Nitrate, Dissolved

Method Summary

Client: Cape May County Municipal Utilities Auth
 Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
200.7	Dissolved Metals	EPA	ELLE
200.7 Rev 4.4	Metals (ICP)	EPA	ELLE
350.1	Nitrogen, Ammonia	MCAWW	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
SM 2510B	Conductivity, Specific Conductance	SM	ELLE
SM 2540C	Solids, Total Dissolved (TDS)	SM	ELLE
Field Parameter	Field Parameters	EPA	EETP
200.7	Preparation, Total Recoverable Metals	EPA	ELLE
5030C	Purge and Trap	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EETP = Eurofins Environment Testing Philadelphia, LLC, 213 Witmer Road, Horsham, PA 19044-0962, TEL (215)355-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: 1A - MWs (Apr/Oct)

Job ID: 630-31870-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-31870-1	MW-2	Ground Water	04/22/22 14:20	04/22/22 17:25
630-31870-2	MW-3	Ground Water	04/22/22 11:00	04/22/22 17:25
630-31870-3	MW-6	Ground Water	04/22/22 12:40	04/22/22 17:25
630-31870-4	MW-15	Ground Water	04/22/22 12:20	04/22/22 17:25
630-31870-5	MW-20	Ground Water	04/22/22 12:00	04/22/22 17:25
630-31870-6	MW-21	Ground Water	04/22/22 14:48	04/22/22 17:25
630-31870-7	MW-30	Ground Water	04/22/22 12:50	04/22/22 17:25
630-31870-8	MW-31	Ground Water	04/22/22 12:25	04/22/22 17:25
630-31870-9	MW-9A	Ground Water	04/22/22 13:50	04/22/22 17:25
630-31870-10	FIELD BLANK	Water	04/22/22 10:50	04/22/22 17:25
630-31870-11	TRIP BLANK	Water	04/22/22 07:45	04/22/22 17:25

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EQC Picksheet: P7287706
 Eurofins QC, LLC Cust: Y01307
 Schd: 13235

MICHAEL M. FRISKO
 CAPE MAY COUNTY UTILITIES AUTHORITY
 1306 MOORE ROAD
 7 MILE PLANT
 CAPE MAY COURT HOUSE, NJ 08210
 (609)465-8410 x2228
 (609)846-6822 Michael Frisko's cell
 (609)425-5158 EMILY ZIDANIC (LAB MANAGER)
 (609)465-9026 EILEEN (BILLING)
 Route: 60 DAN NESKO LANDFILLS /
 DISCHARGES, ETC.

Expected: THURSDAY 04/07/22 - 04/30/22
 Project Name: CAPE MAY COUNTY UTILITIES AUTH LANDFILL
 Start Date: 02/02/20 Stop Date:
 Comments/Schedule Details:
 MUST SAMPLE WITHIN 1ST 14 DAYS OF MONTH;
 SIGN IN AT CLERK OFFICE - CALL MIKE
 FRISKO A WEEK PRIOR TO CONFIRM ACCESS
 (609-465-9026)

LAB USE ONLY
 Bottle Type
 # _____ Ascorbic/HCL Vials # _____ HCL V
 # _____ NA2S2O3
 # _____ NaOH/Zn acetate pH _____
 # _____ HNO3 pH _____
 # _____ H2SO4 pH _____
 # _____ NaOH pH _____
 # _____ Unpreserved
 # _____ HCL
 # _____ NH4CL
 # _____ MEOH
 # _____ Na2SO3/HCL
 # _____ DI Water



630-31870 Chain of Custody

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Field Tests By: /Time:

7287706-1 LANDFILL, MW-2 09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN 624 REPORT ONLY EDB, 123TCP, DBCP 8260 LIST (SEE L6949175)	14.6	4:22:00	4:26	13	Free Cl2 mg/L	pH/TempC	BR2 YES/NO	Total CL2 mg/L
FIELD WORK CODE: _____								
7287706-2 MW-3 09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN	13.8		11:00	13				
FIELD WORK CODE: _____								
7287706-3 MW-6 09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN	17.5		12:40	13				
FIELD WORK CODE: _____								

Cooler ID:

Sample Collected By <i>[Signature]</i>	Circle One Client EQC	Initials <i>[Initials]</i>
Relinquished By <i>[Signature]</i>	Time 17:15	Date 4-22-22
Received By <i>[Signature]</i>	Time 17:15	Date 4-22-22
	Temp 1.9	Iced Y/N Y
	Site Eu	Initials Ca

Required TAT: Standard ___/Rush ___ # Days ___

Comments (reporting, methods, etc)

Client said }
 no observation }
 walls needed }
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M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 S: - Sn: - Printed: 03/20/22 GPS X: -74.79028 Y: 39.12301
 M: - T: - W: - Th: - F: - St: - Sn: -
 PM: LORRAINE



EQC Picksheet: P7287706

Cust: Y01307
 Eurofins QC, LLC
 Schd: 13235
 MICHAEL M. FRISKO
 CAPE MAY COUNTY UTILITIES AUTHORITY
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 Route: 60 DAN NESKO LANDFILLS /
 DISCHARGES, ETC.


Expected: THURSDAY 04/07/22 - 04/30/22
 Project Name: CAPE MAY COUNTY UTILITIES AUTH LANDFILL
 Start Date: 02/02/20 Stop Date:
 Comments/Schedule Details:
 MUST SAMPLE WITHIN 1ST 14 DAYS OF MONTH;
 SIGN IN AT CLERK OFFICE - CALL MIKE
 FRISKO A WEEK PRIOR TO CONFIRM ACCESS
 (609-465-9026)

LAB USE ONLY
 Bottle Type
 # _____ Ascorbic/HCL Vials # _____ HCL Vials
 # _____ NA2S2O3
 # _____ NaOH/Zn acetate pH
 # _____ HNO3 pH
 # _____ H2SO4 pH
 # _____ NaOH pH
 # _____ Unpreserved
 # _____ HCL
 # _____ NH4CL
 # _____ MEOH
 # _____ Na2SO3/HCL
 # _____ DI Water


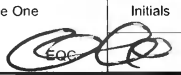
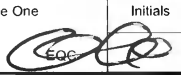
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Field Tests By:  /Time:

7287706-4 MW-15 09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN					Collection Date	Collection Time (Military)	Total # Bottles	Free Cl2 mg/l	pH/TempC	BR2 YES/NO	Total CL2 mg/L
					4.2.22	1220	13		17.4		
FIELD WORK CODE: _____											
7287706-5 MW-20 09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN						1200	13		17.0		
FIELD WORK CODE: _____											
7287706-6 MW-21 09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN						1448	13		15.1		
FIELD WORK CODE: _____											

Cooler ID: _____

Sample Collected By 	Circle One Client 	Initials 
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Required TAT: Standard ___/Rush ___ # Days _____

Relinquished By	Time	Date	Received By	Time	Date	Temp	Iced Y/N	Site	Initials
	1725	4.2.22		1725	4.2.22	6.9	X	See	See

Comments (reporting, methods, etc)

M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 S: - Sn: - Printed: 03/20/22 GPS X: -74.79028 Y: 39.12301
 M: - T: - W: - Th: - F: - S: - Sn: -
 PM: LORRAINE

Hazardous Y/N

EQC Picksheet: P7287706

Eurofins QC, LLC Cust: Y01307
Schd: 13235

MICHAEL M. FRISKO
CAPE MAY COUNTY UTILITIES AUTHORITY
1306 MOORE ROAD
7 MILE PLANT
CAPE MAY COURT HOUSE, NJ 08210
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(609)846-6822 Michael Frisko's cell
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Route: 60 DAN NESKO LANDFILLS /
DISCHARGES, ETC.

Expected: THURSDAY 04/07/22 - 04/30/22
Project Name: CAPE MAY COUNTY UTILITIES AUTH LANDFILL
Start Date: 02/02/20 Stop Date:
Comments/Schedule Details:
MUST SAMPLE WITHIN 1ST 14 DAYS OF MONTH;
SIGN IN AT CLERK OFFICE - CALL MIKE
FRISKO A WEEK PRIOR TO CONFIRM ACCESS
(609-465-9026)

PWSID:

LAB USE ONLY
Bottle Type
_____ Ascorbic/HCL Vials # _____ HCL Vials
_____ NA2S2O3
_____ NaOH/Zn acetate pH _____
_____ HNO3 pH _____
_____ H2SO4 pH _____
_____ NaOH pH _____
_____ Unpreserved
_____ HCL
_____ NH4CL
_____ MEOH
_____ Na2SO3/HCL
_____ DI Water

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Field Tests By: /Time:

Collection Date	Collection Time (Military)	Total # Bottles	Field Tests By: /Time:		Free Cl2 mg/L	pH/TempC	BR2 YES/NO	Total CL2 mg/L
09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN [REDACTED]	17.9	4:22Z	1255	13				
09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN [REDACTED]	17.6		1225	13				
09-MW/GW, 624, 8260+LS, AG, AG DIS, AS, AS DIS, BA, BA DIS, BE, CD, CO, COND, COND FIELD, CR, CU, DEPTH WATER TABLE, FORM STATE, NH3, NH3 DIS, NI, NO3, NO3 DIS, PB, SB, SE, SE DIS, TDS, TL, V, ZN [REDACTED]	20.3		1350	13				

Cooler ID:

Sample Collected By 	Circle One Client	Initials
-------------------------	----------------------	--------------

Required TAT: Standard ___/Rush ___ # Days ___

Relinquished By	Time	Date	Received By	Time	Date	Temp	Iced Y/N	Site	Initials
	17.5	4-22-22		17.25	4-22-22	1.9	y		

Comments (reporting, methods, etc)

M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: - Printed: 03/20/22 GPS X: -74.79028 Y: 39.12301
M: - T: - W: - Th: - F: - St: - Sn: -
PM: LORRAINE

Hazardous Y/N



Eurofins Environment Testing Philadelphia

213 Witmer Road
 Horsham, PA 19044-0962
 Phone: 215-355-3900 Fax: 888-785-8567

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:																								
Client Contact: Shipping/Receiving		Phone:	Dougherty, Erin		630-7578.1																								
Company: Eurofins Lancaster Laboratories Environm		E-Mail:	Erin.Dougherty@et.eurofinsus.com	State of Origin:	Page: Page 1 of 34																								
Address: 2425 New Holland Pike,		Accreditations Required (See note): NELAP - New Jersey	Job #:		630-31870-1																								
City: Lancaster		Due Date Requested: 5/5/2022	Analysis Requested																										
State, Zip: PA, 17601		TAT Requested (days):																											
Phone: 717-656-2300(Tel)		PO #:	<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>624.1_PREC/624_Prep (MOD) PPL</td> <td>200.7/FIELD_FLTRD (MOD) Dissolved Metals</td> <td>200.7/200.7_B_TR (MOD) Total Metals</td> <td>360.1/FIELD_FLTRD Dissolved Ammonia</td> <td>363.2_Nitrite/FIELD_FLTRD</td> <td>363.2_Pres/FIELD_FLTRD</td> <td>2540C_Calcid</td> <td>Nitrate_Calc</td> <td>363.2_Pres</td> <td>363.2_Nitrite</td> <td>360.1</td> <td>2610B</td> <td>8260D/630C (MOD) Appendix IX Volatiles</td> <td>Total Number of containers</td> </tr> </table>			Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_PREC/624_Prep (MOD) PPL	200.7/FIELD_FLTRD (MOD) Dissolved Metals	200.7/200.7_B_TR (MOD) Total Metals	360.1/FIELD_FLTRD Dissolved Ammonia	363.2_Nitrite/FIELD_FLTRD	363.2_Pres/FIELD_FLTRD	2540C_Calcid	Nitrate_Calc	363.2_Pres	363.2_Nitrite	360.1	2610B	8260D/630C (MOD) Appendix IX Volatiles	Total Number of containers								
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Email:		WO #:	<table border="1"> <tr> <td>A - HCL</td> <td>M - Hexane</td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> </tr> <tr> <td>C - Zn Acetate</td> <td>O - AsNaO2</td> </tr> <tr> <td>D - Nitric Acid</td> <td>P - Na2O4S</td> </tr> <tr> <td>E - NaHSO4</td> <td>Q - Na2SO3</td> </tr> <tr> <td>F - MeOH</td> <td>R - Na2S2O3</td> </tr> <tr> <td>G - Amchlor</td> <td>S - H2SO4</td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>T - TSP Dodecahydrate</td> </tr> <tr> <td>I - Ice</td> <td>U - Acetone</td> </tr> <tr> <td>J - DI Water</td> <td>V - MCAA</td> </tr> <tr> <td>K - EDTA</td> <td>W - pH 4-5</td> </tr> <tr> <td>L - EDA</td> <td>Z - other (specify)</td> </tr> </table>			A - HCL	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaO2	D - Nitric Acid	P - Na2O4S	E - NaHSO4	Q - Na2SO3	F - MeOH	R - Na2S2O3	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)
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Project Name: 1A - MWs (Apr/Oct)		Project #: 63001619	<table border="1"> <tr> <td>Other:</td> </tr> </table>			Other:																							
Other:																													
Site: Cape May Country MUA Landfill		SSOW#:																											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=BIOSUB, AA=AA)	Preservation Code:										Special Instructions/Note:													
MW-2 (630-31870-1)	4/22/22	14:20 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
MW-3 (630-31870-2)	4/22/22	11:00 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
MW-6 (630-31870-3)	4/22/22	12:40 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
MW-15 (630-31870-4)	4/22/22	12:20 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
MW-20 (630-31870-5)	4/22/22	12:00 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
MW-21 (630-31870-6)	4/22/22	14:48 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
MW-30 (630-31870-7)	4/22/22	12:50 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
MW-31 (630-31870-8)	4/22/22	12:25 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
MW-9A (630-31870-9)	4/22/22	13:50 Eastern	Water			X X X X X X X X X X X X X X X X	13																						
<p>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/tests/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.</p>																													
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																			
Unconfirmed										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Deliverable Requested: I, II, III, IV, Other (specify)					Primary Deliverable Rank: 2					Special Instructions/QC Requirements:																			
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:																				
Relinquished by:			Date/Time: 4/22/22 1900			Company: EEC			Received by: J14, ER908			Date/Time:			Company:														
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:														
Relinquished by:			Date/Time:			Company:			Received by: J14			Date/Time: 4/22/22 2205			Company: FILET														
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) and other Remarks:																									
Yes No		ER908, 214		3.0 3.6																									



Eurofins Environment Testing Philadelphia

213 Wilmer Road
 Horsham, PA 19044-0962
 Phone: 215-355-3900 Fax: 888-785-8567

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM: Dougherty, Erin		Carrier Tracking No(s):		COC No: 630-7578.2			
Client Contact: Shipping/Receiving		Phone:		E-Mail: Erin.Dougherty@et.eurofinsus.com		State of Origin: New Jersey		Page: Page 2 of 4			
Company: Eurofins Lancaster Laboratories Environm				Accreditations Required (See note): NELAP - New Jersey				Job #: 630-31870-1			
Address: 2425 New Holland Pike, City: Lancaster State, Zip: PA, 17601 Phone: 717-656-2300(Tel) Email:		Due Date Requested: 5/5/2022 TAT Requested (days):		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 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:	
Project Name: 1A - MWs (Apr/Oct) Site: Cape May Country MUA Landfill		PO #: WO #: Project #: 63001619 SSOW#:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sealed, Onwaste/oil, BT+Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Nitrate_Calc/Field_FLTRD	Total Number of containers	Special Instructions/Note:	
				Preservation Code:							
MW-2 (630-31870-1)		4/22/22	14:20 Eastern	Water		X			13		
MW-3 (630-31870-2)		4/22/22	11:00 Eastern	Water		X			13		
MW-6 (630-31870-3)		4/22/22	12:40 Eastern	Water		X			13		
MW-15 (630-31870-4)		4/22/22	12:20 Eastern	Water		X			13		
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MW-30 (630-31870-7)		4/22/22	12:50 Eastern	Water		X			13		
MW-31 (630-31870-8)		4/22/22	12:25 Eastern	Water		X			13		
MW-9A (630-31870-9)		4/22/22	13:50 Eastern	Water		X			13		
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Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Custody Seal No.: ER908, 214			Cooler Temperature(s) and Other Remarks: 3.0, 3.6						

Ver. 06/08/2021

Login Sample Receipt Checklist

Client: Cape May County Municipal Utilities Auth

Job Number: 630-31870-1

Login Number: 31870

List Source: Eurofins Environment Testing Philadelphia, LLC

List Number: 1

Creator: Minster, Will

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
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?	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (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: Cape May County Municipal Utilities Auth

Job Number: 630-31870-1

Login Number: 31870

List Number: 2

Creator: Cyms, Carolyn M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Creation: 04/22/22 02:12 AM

Question	Answer	Comment
The cooler's custody seal is 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 ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.

