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ANALYTICAL REPORT

Eurofins Environment Testing Philadelphia, LLC
213 Witmer Road
Horsham, PA 19044-0962
Tel: (215)355-3900

Laboratory Job ID: 630-34466-1
Client Project/Site: 2A - Sediment Basin #I103 (Apr/Oct)
Sampling Event: Semi-Annual Sediment

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:
6/8/2022 1:43:20 PM

Erin Dougherty, Project Administrator
(215)355-3900
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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

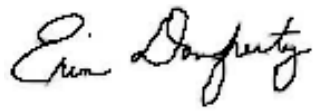
· All samples are collected as “grab” samples unless otherwise identified.

· 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
6/8/2022 1:43:20 PM

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Definitions/Glossary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-34466-1
Project/Site: 2A - Sediment Basin #I103 (Apr/Oct)

Qualifiers

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.
¤	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

Job ID: 630-34466-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative
630-34466-1

Receipt
The samples were received on 5/25/2022 4:00 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 2.0°C

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

General Chemistry
Method 1664B_NP: The LCS analyzed with the samples did not weigh to a constant weight. The LCSD and MS both passed SEDIMENT BASIN 103 (630-34466-1) and FIELD BLANK (630-34466-2)

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
Job ID: 630-34466-1
Project/Site: 2A - Sediment Basin #I103 (Apr/Oct)

Client Sample ID: SEDIMENT BASIN 103 — Lab Sample ID: 630-34466-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		15	7.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Kjeldahl Nitrogen	1.9	J	2.0	1.0	mg/L	2		351.2	Total/NA
Total Dissolved Solids	190		30	12	mg/L	1		SM 2540C	Total/NA
Field pH by SM4500-H B	8.04		0.0100	0.0100	S.U.	1		Field Parameter	Total/NA

Client Sample ID: FIELD BLANK — Lab Sample ID: 630-34466-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH by SM4500-H B	8.11		0.0100	0.0100	S.U.	1		Field Parameter	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cape May County Municipal Utilities Auth
Project/Site: 2A - Sediment Basin #I103 (Apr/Oct)

Job ID: 630-34466-1

Client Sample ID: SEDIMENT BASIN 103

Lab Sample ID: 630-34466-1

Date Collected: 05/25/22 12:08
Matrix: Wastewater
Date Received: 05/25/22 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		50	16	ug/L		06/02/22 05:15	06/08/22 11:47	1
Lead	**18**		15	7.1	ug/L		06/02/22 05:15	06/07/22 22:59	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		06/02/22 07:14	06/02/22 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			06/07/22 09:43	1
SGT-HEM (TPH)	ND		5.0	1.4	mg/L			06/07/22 09:43	1
Total Kjeldahl Nitrogen	**1.9**	**J**	2.0	1.0	mg/L		06/05/22 09:30	06/07/22 13:04	2
Ammonia as N	ND		0.10	0.050	mg/L			06/03/22 13:49	1
Total Dissolved Solids	**190**		30	12	mg/L			05/31/22 07:46	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	**8.04**		0.0100	0.0100	S.U.			05/25/22 12:08	1

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-34466-2

Date Collected: 05/25/22 12:00
Matrix: Water
Date Received: 05/25/22 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		50	16	ug/L		06/02/22 05:15	06/08/22 11:44	1
Lead	ND		15	7.1	ug/L		06/02/22 05:15	06/07/22 22:56	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		06/02/22 07:14	06/02/22 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		6.7	1.9	mg/L			06/07/22 09:43	1
SGT-HEM (TPH)	ND		6.7	1.9	mg/L			06/07/22 09:43	1
Total Kjeldahl Nitrogen	ND		2.0	1.0	mg/L		06/05/22 09:30	06/07/22 11:41	2
Ammonia as N	ND		0.10	0.050	mg/L			06/03/22 13:51	1
Total Dissolved Solids	ND		30	12	mg/L			05/31/22 07:46	1

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH by SM4500-H B	**8.11**		0.0100	0.0100	S.U.			05/25/22 12:00	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 410-261186/1-A
Matrix: Water
Analysis Batch: 263153

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 261186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		15	7.1	ug/L		06/02/22 05:15	06/07/22 22:22	1

Lab Sample ID: MB 410-261186/1-A
Matrix: Water
Analysis Batch: 263435

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 261186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		50	16	ug/L		06/02/22 05:15	06/08/22 11:28	1

Lab Sample ID: LCS 410-261186/2-A
Matrix: Water
Analysis Batch: 263153

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 261186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	50.0	54.1		ug/L		108	85 - 115

Lab Sample ID: LCS 410-261186/2-A
Matrix: Water
Analysis Batch: 263435

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 261186

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	508		ug/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 410-261227/1-A
Matrix: Water
Analysis Batch: 261520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.079	ug/L		06/02/22 07:14	06/02/22 15:57	1

Lab Sample ID: LCS 410-261227/2-A
Matrix: Water
Analysis Batch: 261520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.970		ug/L		97	85 - 115

Lab Sample ID: LCSD 410-261227/3-A
Matrix: Water
Analysis Batch: 261520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 261227

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.00	0.995		ug/L		100	85 - 115	3	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 410-262839/1
Matrix: Water
Analysis Batch: 262839

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.0	1.4	mg/L			06/07/22 09:43	1
SGT-HEM (TPH)	ND		5.0	1.4	mg/L			06/07/22 09:43	1

Lab Sample ID: LCS 410-262839/2
Matrix: Water
Analysis Batch: 262839

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	failed weighback		mg/L		NaN	78 - 114
SGT-HEM (TPH)	20.0	14.1		mg/L		71	64 - 132

Lab Sample ID: LCSD 410-262839/3
Matrix: Water
Analysis Batch: 262839

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
HEM (Oil & Grease)	40.0	36.6		mg/L		92	78 - 114	NaN	13
SGT-HEM (TPH)	20.0	14.3		mg/L		71	64 - 132	1	23

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-262154/2-A
Matrix: Water
Analysis Batch: 263087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 262154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.0	0.50	mg/L		06/05/22 09:30	06/07/22 09:28	1

Lab Sample ID: LCS 410-262154/1-A
Matrix: Water
Analysis Batch: 263087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 262154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	3.96	4.15		mg/L		105	90 - 110

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 410-261942/20
Matrix: Water
Analysis Batch: 261942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.050	mg/L			06/03/22 10:58	1

Lab Sample ID: MB 410-261942/60
Matrix: Water
Analysis Batch: 261942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.050	mg/L			06/03/22 12:21	1

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 410-261942/18
Matrix: Water
Analysis Batch: 261942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	3.00	2.90		mg/L		97	90 - 110

Lab Sample ID: LCS 410-261942/58
Matrix: Water
Analysis Batch: 261942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	3.00	2.72		mg/L		91	90 - 110

Lab Sample ID: LCSD 410-261942/19
Matrix: Water
Analysis Batch: 261942

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 as N	3.00	2.91		mg/L		97	90 - 110	1	15

Lab Sample ID: LCSD 410-261942/59
Matrix: Water
Analysis Batch: 261942

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 as N	3.00	2.71		mg/L		90	90 - 110	1	15

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

Lab Sample ID: MB 410-260241/1
Matrix: Water
Analysis Batch: 260241

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			05/31/22 07:46	1

Lab Sample ID: LCS 410-260241/2
Matrix: Water
Analysis Batch: 260241

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	203		mg/L		102	72 - 127

Metals

Prep Batch: 261186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total Recoverable	Wastewater	200.7	
630-34466-2	FIELD BLANK	Total Recoverable	Water	200.7	
MB 410-261186/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 410-261186/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 261227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total/NA	Wastewater	245.1	
630-34466-2	FIELD BLANK	Total/NA	Water	245.1	
MB 410-261227/1-A	Method Blank	Total/NA	Water	245.1	
LCS 410-261227/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 410-261227/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 261520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total/NA	Wastewater	245.1	261227
630-34466-2	FIELD BLANK	Total/NA	Water	245.1	261227
MB 410-261227/1-A	Method Blank	Total/NA	Water	245.1	261227
LCS 410-261227/2-A	Lab Control Sample	Total/NA	Water	245.1	261227
LCSD 410-261227/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	261227

Analysis Batch: 263153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total Recoverable	Wastewater	200.7 Rev 4.4	261186
630-34466-2	FIELD BLANK	Total Recoverable	Water	200.7 Rev 4.4	261186
MB 410-261186/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	261186
LCS 410-261186/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	261186

Analysis Batch: 263435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total Recoverable	Wastewater	200.7 Rev 4.4	261186
630-34466-2	FIELD BLANK	Total Recoverable	Water	200.7 Rev 4.4	261186
MB 410-261186/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	261186
LCS 410-261186/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	261186

General Chemistry

Analysis Batch: 260241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total/NA	Wastewater	SM 2540C	
630-34466-2	FIELD BLANK	Total/NA	Water	SM 2540C	
MB 410-260241/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 410-260241/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 261942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total/NA	Wastewater	EPA 350.1	
630-34466-2	FIELD BLANK	Total/NA	Water	EPA 350.1	
MB 410-261942/20	Method Blank	Total/NA	Water	EPA 350.1	
MB 410-261942/60	Method Blank	Total/NA	Water	EPA 350.1	
LCS 410-261942/18	Lab Control Sample	Total/NA	Water	EPA 350.1	

General Chemistry (Continued)

Analysis Batch: 261942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-261942/58	Lab Control Sample	Total/NA	Water	EPA 350.1	
LCSD 410-261942/19	Lab Control Sample Dup	Total/NA	Water	EPA 350.1	
LCSD 410-261942/59	Lab Control Sample Dup	Total/NA	Water	EPA 350.1	

Prep Batch: 262154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total/NA	Wastewater	351.2	
630-34466-2	FIELD BLANK	Total/NA	Water	351.2	
MB 410-262154/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-262154/1-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 262839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total/NA	Wastewater	1664B	
630-34466-2	FIELD BLANK	Total/NA	Water	1664B	
MB 410-262839/1	Method Blank	Total/NA	Water	1664B	
LCS 410-262839/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 410-262839/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Analysis Batch: 263087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total/NA	Wastewater	351.2	262154
630-34466-2	FIELD BLANK	Total/NA	Water	351.2	262154
MB 410-262154/2-A	Method Blank	Total/NA	Water	351.2	262154
LCS 410-262154/1-A	Lab Control Sample	Total/NA	Water	351.2	262154

Field Service / Mobile Lab

Analysis Batch: 15997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-34466-1	SEDIMENT BASIN 103	Total/NA	Wastewater	Field Parameter	
630-34466-2	FIELD BLANK	Total/NA	Water	Field Parameter	

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
Job ID: 630-34466-1
Project/Site: 2A - Sediment Basin #I103 (Apr/Oct)

Client Sample ID: SEDIMENT BASIN 103
Lab Sample ID: 630-34466-1

Date Collected: 05/25/22 12:08
Matrix: Wastewater
Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			261186	06/02/22 05:15	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	263153	06/07/22 22:59	T8CQ	ELLE
Total Recoverable	Prep	200.7			261186	06/02/22 05:15	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	263435	06/08/22 11:47	S4PD	ELLE
Total/NA	Prep	245.1			261227	06/02/22 07:14	UAMX	ELLE
Total/NA	Analysis	245.1		1	261520	06/02/22 16:22	UEFS	ELLE
Total/NA	Analysis	1664B		1	262839	06/07/22 09:43	UYB0	ELLE
Total/NA	Prep	351.2			262154	06/05/22 09:30	F8AU	ELLE
Total/NA	Analysis	351.2		2	263087	06/07/22 13:04	JCG7	ELLE
Total/NA	Analysis	EPA 350.1		1	261942	06/03/22 13:49	UJE2	ELLE
Total/NA	Analysis	SM 2540C		1	260241	05/31/22 07:46	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15997	05/25/22 12:08	CAQ	EETP

Client Sample ID: FIELD BLANK
Lab Sample ID: 630-34466-2

Date Collected: 05/25/22 12:00
Matrix: Water
Date Received: 05/25/22 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			261186	06/02/22 05:15	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	263153	06/07/22 22:56	T8CQ	ELLE
Total Recoverable	Prep	200.7			261186	06/02/22 05:15	UAMX	ELLE
Total Recoverable	Analysis	200.7 Rev 4.4		1	263435	06/08/22 11:44	S4PD	ELLE
Total/NA	Prep	245.1			261227	06/02/22 07:14	UAMX	ELLE
Total/NA	Analysis	245.1		1	261520	06/02/22 16:14	UEFS	ELLE
Total/NA	Analysis	1664B		1	262839	06/07/22 09:43	UYB0	ELLE
Total/NA	Prep	351.2			262154	06/05/22 09:30	F8AU	ELLE
Total/NA	Analysis	351.2		2	263087	06/07/22 11:41	JCG7	ELLE
Total/NA	Analysis	EPA 350.1		1	261942	06/03/22 13:51	UJE2	ELLE
Total/NA	Analysis	SM 2540C		1	260241	05/31/22 07:46	M98K	ELLE
Total/NA	Analysis	Field Parameter		1	15997	05/25/22 12:00	CAQ	EETP

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
Job ID: 630-34466-1
Project/Site: 2A - Sediment Basin #I103 (Apr/Oct)

Laboratory: Eurofins Environment Testing Philadelphia, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA093 (Horsham)	06-30-22

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-22

Method Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: 2A - Sediment Basin #I103 (Apr/Oct)

Job ID: 630-34466-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664B	HEM and SGT-HEM	1664B	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE
EPA 350.1	Nitrogen, Ammonia	EPA	ELLE
SM 2540C	Solids, Total Dissolved (TDS)	SM	ELLE
Field Parameter	Field Parameters	EPA	EETP
200.7	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	MCAWW	ELLE

Protocol References:

1664B = EPA-821-98-002

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"

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: 2A - Sediment Basin #I103 (Apr/Oct)

Job ID: 630-34466-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-34466-1	SEDIMENT BASIN 103	Wastewater	05/25/22 12:08	05/25/22 16:00
630-34466-2	FIELD BLANK	Water	05/25/22 12:00	05/25/22 16:00

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CHAIN OF CUSTODY

Page ____ of ____

630-34466 Chain of Custody

213 Witmer Road Phone: 215-355-3900
Horsham, PA 19044

Client/Acct. No. Cape May County
Address Utilities Authority
City/State/Zip
Phone/Fax
Client Contact: Michael Forsko

Bill to/Report to (if different)

Sampling Site Address (if different) Include State

P.O. No. PWSID #:
Quote #
e-mail:

____ Ascorbic/HCL Vials # ____ HCl Vials
____ $Na_2S_2O_3$ _____
____ Na OH/Zn acetate pH _____
____ HNO_3 pH _____
____ H_2SO_4 pH _____
____ NaOH pH _____
____ Unpreserved
____ HCl # ____NH4Cl # ____MeOH
____ DI Water

MATRIX CODES
DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	Znac	UNPRE	BACT	ANALYSIS REQUESTED	Field pH, Temp (°C), DO, Cl2, Cond. etc.
PROJECT MO1307																
Sediment Basin 103	5-25-22	1208	X		GW	5	1	2		1			1		1664 Hem, 1664 SGT, Ammonia TDS, TKN, PB, Hg, As pH	8.04 @ 23.4°C
FB	→	1200	X		GW	5	1	2		1			1			8.11 @ 17.3°C

SAMPLED BY: (Name/Company)

TAT: ☐ STANDARD (10 DAY)
or DUE DATE____/____/____

Report Format: ☐ Standard ☐ NJ-RDD ☐ SRP-RDD
☐ Standard + QC ☐ Forms ☐ EDD

Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

Field Parameters Analyzed By:
Initials | Date/Time:

ALL CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 4 PM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1.	5-25-22	1600	1.	5-25-22	1600
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
2.			2.		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
3.			3.		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
4.			4.		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
5.			5.		

DELIVERY: ☐ EQC COURIER ☐ CLIENT ☐UPS ☐FEDEX ☐OTHER _____

Custody Seal Number

Rec'd Temp.: 2.0 Initials: _____ Ice Y / N Location: Lab

COMMENTS:

Hazardous: yes / no

6/8/2022

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dougherty, Erin	Carrier Tracking No(s):	COC No: 630-7811.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin: New Jersey	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New Jersey		Job #: 630-34466-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 6/7/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: 2A - Sediment Basin #I103 (Apr/Oct)	Project #: 63001619			
Site: Cape May Country MUA Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1664B_NP/ Oil & Grease and TPH	2540C_Calcd/ TDS	351.2/351.2_Prep Nitrogen, Total Kjeldahl	200.7/200.7_P_TR (MOD) Iron	245.1/245.1_Prep Mercury	350.1/ Nitrogen, Ammonia	Total Number of containers	Special Instructions/Note:
				Preservation Code:										
SEDIMENT BASIN 103 (630-34466-1)	5/25/22	12:08 Eastern		Water			X	X	X	X	X	X	5	
FIELD BLANK (630-34466-2)	5/25/22	12:00 Eastern		Water			X	X	X	X	X	X	5	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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 complicance to Eurofins Environment Testing Philadelphia, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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: 5/25/2022 1970	Company: Eur	Received by: 866	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/25/22 21:32	Company: ELLET

Custody Seals Intact: X Yes ☐ No	Custody Seal No.: 866	Cooler Temperature(s) °C and Other Remarks: 2.7°C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Cape May County Municipal Utilities Auth

Job Number: 630-34466-1

Login Number: 34466

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: 630-34466-1

Login Number: 34466
List Number: 2
Creator: Cyms, Carolyn M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 05/25/22 06:09 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, 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.