Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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LAB CHRONICLE

OrderID:	P5146	**OrderDate:**	12/5/2024 2:40:00 PM
Client:	Holland Manufacturing Co.	**Project:**	Pre Treatment Plant
Contact:	Todd Holland	**Location:**	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5146-01	**EFFLUENT**	**WATER**			**12/05/24 10:45**			**12/05/24**
			Ammonia	SM4500-NH3		12/09/24	12/09/24 14:27	
			BOD5	SM5210 B			12/05/24 17:40	
			Oil and Grease	1664A			12/06/24 10:30	
			Phosphorus-Ortho	SM4500-P E			12/06/24 15:48	
			Phosphorus-Total	365.3		12/06/24	12/06/24 16:06	
			TSS	SM2540 D			12/09/24 11:00	
P5146-01DL	**EFFLUENTDL**	**WATER**			**12/05/24 10:45**			**12/05/24**
			Ammonia	SM4500-NH3		12/09/24	12/09/24 14:54	
P5146-04	**AERATION TK 1**	**WATER**			**12/05/24 10:45**			**12/05/24**
			TSS	SM2540 D			12/09/24 11:00	
P5146-05	**INFLUENT**	**WATER**			**12/05/24 10:45**			**12/05/24**
			Ammonia	SM4500-NH3		12/09/24	12/09/24 14:27	
			BOD5	SM5210 B			12/05/24 17:40	

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LAB CHRONICLE

P5146-05DL	**INFLUENTDL**	**WATER**			**12/05/24 10:45**			**12/05/24**
			Ammonia	SM4500-NH3		12/09/24	12/09/24 14:54	

SAMPLE DATA

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/05/24 10:45
Project:	Pre Treatment Plant	Date Received:	12/05/24
Client Sample ID:	EFFLUENT	SDG No.:	P5146
Lab Sample ID:	P5146-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	521	OR	1	2.30	5.00	mg/L	12/09/24 08:50	12/09/24 14:27	SM 4500-NH3 B plus G-11
BOD5	4930		1	0.17	2.00	mg/L		12/05/24 17:40	SM 5210 B-16
Oil and Grease	26.3		1	0.40	5.00	mg/L		12/06/24 10:30	1664A
Orthophosphate as P	0.041	J	1	0.0040	0.050	mg/L		12/06/24 15:48	SM 4500-P E-11
Phosphorus, Total	0.080		1	0.0050	0.050	mg/L	12/06/24 10:10	12/06/24 16:06	365.3
TSS	1640		1	1.00	4.00	mg/L		12/09/24 11:00	SM 2540 D-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/05/24 10:45
Project:	Pre Treatment Plant	Date Received:	12/05/24
Client Sample ID:	EFFLUENTDL	SDG No.:	P5146
Lab Sample ID:	P5146-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	525	D	10	22.5	50.0	mg/L	12/09/24 08:50	12/09/24 14:54	SM 4500-NH3 B plus G-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/05/24 10:45
Project:	Pre Treatment Plant	Date Received:	12/05/24
Client Sample ID:	AERATION TK 1	SDG No.:	P5146
Lab Sample ID:	P5146-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	2690		1	1.00	4.00	mg/L		12/09/24 11:00	SM 2540 D-15

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/05/24 10:45
Project:	Pre Treatment Plant	Date Received:	12/05/24
Client Sample ID:	INFLUENT	SDG No.:	P5146
Lab Sample ID:	P5146-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	176	OR	1	2.30	5.00	mg/L	12/09/24 08:50	12/09/24 14:27	SM 4500-NH3 B plus G-11
BOD5	32300		1	0.17	2.00	mg/L		12/05/24 17:40	SM 5210 B-16

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/05/24 10:45
Project:	Pre Treatment Plant	Date Received:	12/05/24
Client Sample ID:	INFLUENTDL	SDG No.:	P5146
Lab Sample ID:	P5146-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	172	D	2	4.50	10.0	mg/L	12/09/24 08:50	12/09/24 14:54	SM 4500-NH3 B plus G-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **RunNo.:** LB133795

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Orthophosphate as P	mg/L	0.501	0.50	100	90-110	12/06/2024
Sample ID: CCV2						
Orthophosphate as P	mg/L	0.501	0.5	100	90-110	12/06/2024
Sample ID: CCV1						
Orthophosphate as P	mg/L	0.502	0.5	100	90-110	12/09/2024

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Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **RunNo.:** LB133797

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Phosphorus, Total	mg/L	0.494	0.50	99	90-110	12/06/2024
Sample ID: CCV1						
Phosphorus, Total	mg/L	0.491	0.50	98	90-110	12/06/2024
Sample ID: CCV2						
Phosphorus, Total	mg/L	0.491	0.50	98	90-110	12/06/2024

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Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **RunNo.:** LB133842

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Ammonia as N	mg/L	1	1	100	90-110	12/09/2024
Sample ID: CCV1						
Ammonia as N	mg/L	1.1	1	110	90-110	12/09/2024
Sample ID: CCV2						
Ammonia as N	mg/L	1	1	100	90-110	12/09/2024
Sample ID: CCV3						
Ammonia as N	mg/L	1	1	100	90-110	12/09/2024
Sample ID: CCV4						
Ammonia as N	mg/L	1	1	100	90-110	12/09/2024

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Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **RunNo.:** LB133795

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	12/06/2024
Sample ID: CCB1							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	12/06/2024
Sample ID: CCB2							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	12/06/2024

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Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **RunNo.:** LB133797

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0047	0.05	12/06/2024
Sample ID: CCB1							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0047	0.05	12/06/2024
Sample ID: CCB2							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.0047	0.05	12/06/2024

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Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **RunNo.:** LB133842

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024

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Preparation Blank Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133770BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	12/05/2024
Sample ID: LB133785BL							
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.4	5.0	12/06/2024
Sample ID: LB133795BL							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.004	0.05	12/06/2024
Sample ID: LB133838BL							
TSS	mg/L	< 2.0000	2.0000	U	1	4	12/09/2024
Sample ID: PB165447BL							
Phosphorus, Total	mg/L	0.008	0.0250	J	0.005	0.05	12/06/2024
Sample ID: PB165461BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/09/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5139-01
Client ID: 001-WILLETS-PT-BLVD(DEC)MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	2.80	OR	1.80		1	1	100		12/09/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5139-01
Client ID: 001-WILLETS-PT-BLVD(DEC)MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	2.90	OR	1.80		1	1	110		12/09/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5141-02
Client ID: WATER TREATMENT DISCHARGEMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	21.3		1.10	J	20.0	1	101		12/06/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5141-02
Client ID: WATER TREATMENT DISCHARGEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	21.7		1.10	J	20.0	1	103		12/06/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5146-01
Client ID: EFFLUENTMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Orthophosphate as P	mg/L	90-110	0.53		0.041	J	0.5	1	97		12/06/2024
Phosphorus, Total	mg/L	90-110	0.55		0.080		0.5	1	93		12/06/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5146-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.55		0.080		0.5	1	94		12/06/2024
Orthophosphate as P	mg/L	90-110	0.53		0.041	J	0.5	1	97		12/06/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5146-01
Client ID: EFFLUENTMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	46.6		26.3		20.0	1	102		12/06/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5146-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	45.9		26.3		20.0	1	98		12/06/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5068-01
Client ID: 14B-1DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	4500		4530		1	0.66		12/09/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5074-02
Client ID: COMPDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5	mg/L	+/-20	1250		1210		1	3.02		12/05/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5139-01
Client ID: 001-WILLETS-PT-BLVD(DEC)DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	**mg/L**	**+/-20**	**1.80**		**1.80**		**1**	**0**		**12/09/2024**

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5139-01
Client ID: 001-WILLETS-PT-BLVD(DEC)MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	2.80	OR	2.90	OR	1	4		12/09/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5141-02
Client ID: WATER TREATMENT DISCHARGEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	21.3		21.7		1	1.86		12/06/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5146-01
Client ID: EFFLUENTDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Orthophosphate as P	mg/L	+/-20	0.041	J	0.040	J	1	2.47		12/06/2024
Phosphorus, Total	mg/L	+/-20	0.080		0.081		1	1.24		12/06/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5146-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Orthophosphate as P	mg/L	+/-20	0.53		0.53		1	0		12/06/2024
Phosphorus, Total	mg/L	+/-20	0.55		0.55		1	1.09		12/06/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Sample ID: P5146-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	46.6		45.9		1	1.51		12/06/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **Run No.:** LB133770

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133770BS								
BOD5	mg/L	198	212		107	1	84.6-115.4	12/05/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **Run No.:** LB133785

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133785BS								
Oil and Grease	mg/L	20.0	16.8		84	1	78-114	12/06/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5146
Project: Pre Treatment Plant
Run No.: LB133795

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133795BS								
Orthophosphate as P	mg/L	0.5	0.50		100	1	90-110	12/06/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **Run No.:** LB133838

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133838BS								
TSS	mg/L	550	530		96	1	90-110	12/09/2024

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **Run No.:** LB133797

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB165447BS								
Phosphorus, Total	**mg/L**	**0.50**	**0.49**		**98**	**1**	**90-110**	**12/06/2024**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5146

Project: Pre Treatment Plant **Run No.:** LB133842

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB165461BS								
Ammonia as N	mg/L	1	1.00		100	1	90-110	12/09/2024

Alliance
TECHNICAL GROUP

RAW DATA

Reviewed By:Iwona
On:12/12/2024 9:48:12 AM
Inst Id :DO METER
LB :LB133770

BOD5 LOG

ANALYST: rubir
SUPERVISOR: Iwona

QC BATCH ID: LB133770
Analysis Date: 12/05/2024
BOD Water: WP110974
MANGANOUS SULFATE SOLUTION: W3103
Starch: W3149
Alkaline Iodide Azide: W3109
Sulfuric acid, 1N: WP110386
Sodium Thiosulfate, 0.025N: W3105
POLYSEED: WP110976
NaOH, 1N: WP108662
GGA: WP110975
IncubatorID: INCUBATOR #3
Chlorine Strips: W3155
GuageID: 0511062
pH Strips: W3140
Zero DO: WP110595

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading(ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.8	9.8	9.8
WINKLER 2	WINKLER 2	2	300	9.4	19.2	9.8	9.8

Meter Calibration1: 9.30 Zero DO Reading1: 0.08 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.83

After Incubation

Meter Calibration2: 8.95 Zero DO Reading2: 0.14 mg/L (<=0.2 Criteria)

Barometric Pressure2: 765 mmHg

Alliance TECHNICAL GROUP

QC BATCH ID: LB133770

INCUBATOR TEMP IN(C): 19.9

INCUBATOR TEMP OUT(C): 20.0

TIME IN: 17:40

TIME OUT: 13:45

DATE IN: 12/05/2024

DATE OUT: 12/10/2024

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB133770BL	1	No	6.65	N/A	20.40	300	9.82	9.80	0.02	0.02	0.02	
POLYSEED	1					10	9.74	7.40	2.34	0.47	0.58	
POLYSEED	2					15	9.72	5.12	4.6	0.61		
POLYSEED	3					20	9.65	3.01	6.64	0.66		
GGA	1					6	9.76	5.05	4.71	206.5	211.5	
GGA	2					6	9.72	4.89	4.83	212.5		
GGA	3					6	9.70	4.81	4.89	215.5		
P5074-02	1	No	5.29	6.92	20.20	0.5	9.79	7.17	2.62	1224	1245	pH Adjuste
P5074-02	2					1	9.74	4.65	5.09	1353		
P5074-02	3					2	9.69	1.39	8.3	1158		
P5074-02	4					3	9.58	0.56	-	0		
P5074-02DUP	1	No	5.29	6.92	20.20	0.5	9.79	7.28	2.51	1158	1208	pH Adjuste
P5074-02DUP	2					1	9.74	4.73	5.01	1329		
P5074-02DUP	3					2	9.67	1.51	8.16	1137		
P5074-02DUP	4					3	9.60	0.57	-	0		
P5139-01	1	No	6.22	6.79	20.00	5	9.64	4.36	5.28	282	175.5	pH Adjuste
P5139-01	2					20	9.35	4.17	5.18	69		
P5139-01	3					50	7.98	0.58	-	0		
P5139-01	4					150	4.28	0.46	-	0		
P5139-02	1	No	6.31	6.84	20.00	5	9.65	7.35	2.3	103.2	92.85	pH Adjuste
P5139-02	2					20	9.34	3.26	6.08	82.5		
P5139-02	3					50	8.42	0.57	-	0		
P5139-02	4					150	4.56	0.45	-	0		
P5141-01	1	No	9.61	7.19	20.00	5	9.79	8.84	-	0	30.98	pH Adjuste
P5141-01	2					20	9.76	7.45	2.31	25.95		
P5141-01	3					50	9.70	3.12	6.58	36		
P5141-01	4					150	9.65	0.55	-	0		
P5143-01	1	No	7.11	N/A	20.00	5	9.63	9.00	-	0		
P5143-01	2					20	9.58	8.60	-	0		
P5143-01	3					50	9.52	8.20	-	0		
P5143-01	4					150	8.78	8.00	-	0		
P5143-03	1	No	7.14	N/A	20.00	5	9.68	9.01	-	0		
P5143-03	2					20	9.65	8.91	-	0		
P5143-03	3					50	9.62	8.40	-	0		
P5143-03	4					150	9.60	7.99	-	0		
P5143-05	1	No	6.91	N/A	20.00	5	9.70	8.90	-	0		
P5143-05	2					20	9.68	8.47	-	0		
P5143-05	3					50	9.65	8.38	-	0		
P5143-05	4					150	9.60	7.96	-	0		
P5145-01	1	No	7.17	N/A	20.00	5	9.80	8.43	-	0	22.35	
P5145-01	2					20	9.78	7.79	-	0		

P5145-01	3					50	9.75	3.68	6.07	32.94		
P5145-01	4					150	9.74	3.28	6.46	11.76		
P5146-01	1	No	8.66	7.19	20.00	0.5	9.80	1.01	8.79	4926	4926	pH Adjuste
P5146-01	2					1	9.72	0.31	-	0		
P5146-01	3					2	9.53	0.20	-	0		
P5146-01	4					5	9.18	0.19	-	0		
P5146-01	5					10	8.60	0.15	-	0		
P5146-05	1	No	4.47	6.80	20.00	0.01	9.72	7.24	2.48	57000	32320	pH Adjuste
P5146-05	2					0.05	9.66	5.07	4.59	24060		
P5146-05	3					0.1	9.64	3.76	5.88	15900		
P5146-05	4					0.5	9.22	0.16	-	0		
P5146-05	5					1	8.51	0.11	-	0		

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

WORKLIST(Hardcopy Internal Chain)

LB133770

WorkList Name : bod-12-05 **WorkList ID :** 186023 **Department :** Wet-Chemistry **Date :** 12-05-2024 15:34:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5141-01	WATER TREATMENT DISCHAI	Water	BOD5	Cool 4 deg C	VERI01	M11	12/05/2024	SM5210 B
P5143-01	DSN002	Water	BOD5	Cool 4 deg C	PSEG04	L51	12/05/2024	SM5210 B
P5143-03	DSN001	Water	BOD5	Cool 4 deg C	PSEG04	L51	12/05/2024	SM5210 B
P5143-05	DSN003	Water	BOD5	Cool 4 deg C	PSEG04	L51	12/05/2024	SM5210 B
P5145-01	286085	Water	BOD5	Cool 4 deg C	PSEG03	L51	12/05/2024	SM5210 B

Date/Time 12/05/2024 16:10
Raw Sample Received by: RM (WG)
Raw Sample Relinquished by: AWC

Date/Time 12/05/2024 17:00
Raw Sample Received by: AWC
Raw Sample Relinquished by: RM (WG)

WORKLIST(Hardcopy Internal Chain)

LB133770

WorkList Name : bod5-12-5 **WorkList ID :** 185986 **Department :** Wet-Chemistry **Date :** 12-05-2024 08:13:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5074-02	COMP	Water	BOD5	Cool 4 deg C	ARAM01	M11	12/04/2024	SM5210 B
P5139-01	001-WILLETS-PT-BLVD(DEC)	Water	BOD5	Cool 4 deg C	TULL01	L51	12/04/2024	SM5210 B
P5139-02	002-35TH-AVE(DEC)	Water	BOD5	Cool 4 deg C	TULL01	L51	12/04/2024	SM5210 B
P5146-01	EFFLUENT	Water	BOD5	Cool 4 deg C	HOLL01	M11	12/05/2024	SM5210 B
P5146-05	INFLUENT	Water	BOD5	Cool 4 deg C	HOLL01	M11	12/05/2024	SM5210 B

Date/Time 12/05/2024 15:25

Raw Sample Received by: RM (WC)

Raw Sample Relinquished by: MedC

Date/Time 12/05/2024 17:00

Raw Sample Received by: MedC

Raw Sample Relinquished by: RM (WC)

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: Oil and Grease
Run Number: LB133785
Analysis Date: 12/06/2024
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 12/06/2024
Extration IN Time: 09:25
Extration OUT Time: 09:48
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB133785BL	LB133785BL	WATER	1.3	1000	100	3.2556	3.2556	0	3.2556	3.2556	0.0000	0
2	LB133785BS	LB133785BS	WATER	1.3	1000	100	2.7413	2.7413	0	2.7581	2.7581	0.0168	16.8
3	P5138-01	001-WILLETS-PT-BLVD(NO	WATER	1.6	1000	100	3.0604	3.0604	0	3.0876	3.0876	0.0272	27.2
4	P5138-02	002-35TH-AVE(NOV)	WATER	1.6	1000	100	3.0684	3.0684	0	3.0942	3.0942	0.0258	25.8
5	P5139-01	001-WILLETS-PT-BLVD(DE	WATER	1.6	1000	100	3.0681	3.0681	0	3.0745	3.0745	0.0064	6.4
6	P5139-02	002-35TH-AVE(DEC)	WATER	1.6	1000	100	3.0997	3.0997	0	3.1071	3.1071	0.0074	7.4
7	P5141-02	WATER TREATMENT DISCHA	WATER	1.3	1000	100	3.0837	3.0837	0	3.0848	3.0848	0.0011	1.1
8	P5141-03	P5141-02MS	WATER	1.3	1000	100	3.1156	3.1156	0	3.1369	3.1369	0.0213	21.3
9	P5141-04	P5141-02MSD	WATER	1.3	1000	100	3.1967	3.1967	0	3.2184	3.2184	0.0217	21.7
10	P5146-01	EFFLUENT	WATER	1.6	1000	100	3.1151	3.1151	0	3.1414	3.1414	0.0263	26.3
11	P5146-02	P5146-01MS	WATER	1.6	1000	100	2.8633	2.8633	0	2.9099	2.9099	0.0466	46.6
12	P5146-03	P5146-01MSD	WATER	1.6	1000	100	3.0521	3.0521	0	3.0980	3.0980	0.0459	45.9

QC Batch# LB133785 **Test:** Oil and Grease **Analysis Date:** 12/06/2024

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3153
pH Paper 0-14	M6069
Sodium Sulfate	EP2570
1:1 HCL	WP110826
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP100827
LCSWD	NA	NA
MS/MSD	2.5 ML	WP100828

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0019 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0004 **(0.9950-1.0050)**
Bal Check Time: 09:30

In OVEN TEMP1 : 70 °C **Dessicator Time In1 :** 11:36
In Time1: 10:30
Out OVEN TEMP1: 70 °C **Dessicator Time Out1:** 12:15
Out Time1: 11:35

After Analysis

0.0020 gram Balance: 0.0021 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0005 **(0.9950-1.0050)**
Bal Check Time: 14:02

In OVEN TEMP2 : 71 °C **Dessicator Time In2 :** 13:26
In Time2: 12:45
Out OVEN TEMP2: 71 °C **Dessicator Time Out2:** 14:00
Out Time2: 13:25

WORKLIST(Hardcopy Internal Chain)

LB 133785

WorkList Name : oil & grease p5138 **WorkList ID :** 186059 **Department :** Wet-Chemistry **Date :** 12-06-2024 09:11:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5138-01 C	001-WILLETS-PT-BLVD(NOV)	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	L51	12/04/2024	1664A
P5138-02 C	002-35TH-AVE(NOV)	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	L51	12/04/2024	1664A
P5139-01 F	001-WILLETS-PT-BLVD(DEC)	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	L51	12/04/2024	1664A
P5139-02 F	002-35TH-AVE(DEC)	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	L51	12/04/2024	1664A
P5141-02 B	WATER TREATMENT DISCHAI	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	L51	12/04/2024	1664A
P5141-03	P5141-02MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	VERI01	M11	12/05/2024	1664A
P5141-04	P5141-02MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	VERI01	M11	12/05/2024	1664A
P5146-01 E	EFFLUENT	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	M11	12/05/2024	1664A
P5146-02	P5146-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	M11	12/05/2024	1664A
P5146-03	P5146-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	M11	12/05/2024	1664A

Date/Time 12/06/24 09:15

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JD (SM)

Date/Time 12/06/24 13:00

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: [signature]

Analytical Summary Report

Analysis Method: SM4500-P E

Parameter: Phosphorus-Ortho

Run Number: LB133795

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP110997
calibration std. phosphate 0.5 ppm	WP110996
calibration std. phosphate 0.3 ppm	WP110995
calibration std. phosphate 0.1 ppm	WP110994
calibration std. phosphate 0.05 ppm	WP110993
calibration std. 0 ppm	WP110992
phosphate CCV std.	WP110999
5N sulfuric acid	WP110380
Combined reagent	WP111001
Phenolphthalein indicator	WP108727
Sodium hydroxide, 1N	WP108662
Phosphate ICV-LCS Std	WP110998

Intercept: -0.0018 **Slope:** 0.6506 **Regression:** 0.999972

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.003		12/06/2024	15:42
2	CAL2	0.05	1	50	50	0.031	0.05	0	12/06/2024	15:42
3	CAL3	0.10	1	50	50	0.064	0.101	1	12/06/2024	15:43
4	CAL4	0.30	1	50	50	0.190	0.295	-1.7	12/06/2024	15:43
5	CAL5	0.50	1	50	50	0.323	0.499	-0.2	12/06/2024	15:44
6	CAL6	1.00	1	50	50	0.650	1.002	0.2	12/06/2024	15:44

Analytical Summary Report

Analysis Method: SM4500-P E
ANALYST: Niha
Parameter: Phosphorus-Ortho
SUPERVISOR REVIEW BY: Iwona
Run Number: LB133795

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.324	0.501	12/06/2024	15:45
2	ICB		1	50	50	0.000	0.003	12/06/2024	15:45
3	CCV1	0.5	1	50	50	0.325	0.502	12/09/2024	15:46
4	CCB1		1	50	50	0.000	0.003	12/06/2024	15:46
5	RL Check	0.01	1	50	50	0.032	0.052	12/06/2024	15:47
6	LB133795BL		1	50	50	0.000	0.003	12/06/2024	15:47
7	LB133795BS	0.5	1	50	50	0.324	0.501	12/06/2024	15:48
8	P5146-01		1	50	50	0.025	0.041	12/06/2024	15:48
9	P5146-01DUP		1	50	50	0.024	0.040	12/06/2024	15:49
10	P5146-01MS	0.5	1	50	50	0.340	0.525	12/06/2024	15:49
11	P5146-01MSD	0.5	1	50	50	0.340	0.525	12/06/2024	15:50
12	CCV2	0.5	1	50	50	0.324	0.501	12/06/2024	15:50
13	CCB2		1	50	50	0.000	0.003	12/06/2024	15:51

WORKLIST(Hardcopy Internal Chain)

LB133795

WorkList Name : ORTHO-P-12062024 **WorkList ID :** 186052 **Department :** Wet-Chemistry **Date :** 12-06-2024 08:31:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5146-01	EFFLUENT	Water	Phosphorus-Ortho	Cool 4 deg C	HOLL01	M11	12/05/2024	SM4500-P E

Date/Time 12.06.2024, 13:00

Raw Sample Received by: NF(WC)

Raw Sample Relinquished by: WC

Date/Time 12.06.2024, 17

Raw Sample Received by: WC

Raw Sample Relinquished by: NF (WC)

Analytical Summary Report

Analysis Method: 365.3

Parameter: Phosphorus-Total

Run Number: LB133797

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP110997
calibration std. phosphate 0.5 ppm	WP110996
calibration std. phosphate 0.3 ppm	WP110995
calibration std. phosphate 0.1 ppm	WP110994
calibration std. phosphate 0.05 ppm	WP110993
calibration std. 0 ppm	WP110992
phosphate CCV std.	WP110999
Combined reagent	WP111001
Phenolphthalein indicator	WP108727
Sodium hydroxide, 1N	WP108662
Phosphate ICV-LCS Std	WP110998

Intercept: -0.0053 **Slope:** 0.6793 **Regression:** 0.999652

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.008		12/06/2024	16:00
2	CAL2	0.05	1	50	50	0.032	0.055	10	12/06/2024	16:00
3	CAL3	0.10	1	50	50	0.065	0.103	3	12/06/2024	16:01
4	CAL4	0.30	1	50	50	0.188	0.285	-5	12/06/2024	16:01
5	CAL5	0.50	1	50	50	0.328	0.491	-1.8	12/06/2024	16:02
6	CAL6	1.00	1	50	50	0.680	1.009	0.9	12/06/2024	16:02

Analytical Summary Report

Analysis Method: 365.3
ANALYST: Niha
Parameter: Phosphorus-Total
SUPERVISOR REVIEW BY: Iwona
Run Number: LB133797

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.330	0.494	12/06/2024	16:03
2	ICB		1	50	50	0.000	0.008	12/06/2024	16:03
3	CCV1	0.50	1	50	50	0.328	0.491	12/06/2024	16:04
4	CCB1		1	50	50	0.000	0.008	12/06/2024	16:04
5	RL Check	0.01	1	50	50	0.032	0.055	12/09/2024	16:05
6	PB165447BL		1	50	50	0.000	0.008	12/06/2024	16:05
7	PB165447BS	0.50	1	50	50	0.328	0.491	12/06/2024	16:06
8	P5146-01		1	50	50	0.049	0.080	12/06/2024	16:06
9	P5146-01DUP		1	50	50	0.050	0.081	12/06/2024	16:07
10	P5146-01MS	0.50	1	50	50	0.365	0.545	12/06/2024	16:07
11	P5146-01MSD	0.50	1	50	50	0.369	0.551	12/06/2024	16:08
12	CCV2	0.50	1	50	50	0.328	0.491	12/06/2024	16:08
13	CCB2		1	50	50	0.000	0.008	12/06/2024	16:09

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona
ANALYST: Niha
Date: 12/06/2024
Run Number: LB133838
BalanceID: WC SC-6
OvenID: WC OVEN-1
FilterID: 17416528
ThermometerID: WET OVEN#1

TEMP1 IN:	103 °C	12/06/2024 11:00	**TEMP1 OUT:**	104 °C	12/06/2024 12:00
TEMP2 IN:	104 °C	12/06/2024 12:30	**TEMP2 OUT:**	103 °C	12/06/2024 13:30
TEMP3 IN:	104 °C	12/09/2024 11:00	**TEMP3 OUT:**	103 °C	12/09/2024 12:30
TEMP4 IN:	104 °C	12/09/2024 13:00	**TEMP4 OUT:**	103 °C	12/09/2024 14:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB133838BL	LB133838BL	1.4235	1.4235	100	1.4235	1.4235	1.4235	0.0000	0
2	LB133838BS	LB133838BS	1.3952	1.3952	100	1.4482	1.4482	1.4482	0.0530	530
3	P5068-01	14B-1	1.4036	1.4036	10	1.4486	1.4486	1.4486	0.0450	4500
4	P5068-01DUP	14B-1DUP	1.4102	1.4102	10	1.4555	1.4555	1.4555	0.0453	4530
5	P5068-02	14B-2	1.4080	1.4080	10	1.4658	1.4658	1.4658	0.0578	5780
6	P5068-03	14B-3	1.3592	1.3592	10	1.4088	1.4088	1.4088	0.0496	4960
7	P5068-04	14B-4	1.3586	1.3586	10	1.4205	1.4205	1.4205	0.0619	6190
8	P5074-02	COMP	1.3585	1.3585	100	1.4460	1.4460	1.4460	0.0875	875
9	P5138-01	001-WILLETS-PT-BLVD(NOV)	1.3616	1.3616	150	1.3768	1.3768	1.3768	0.0152	101.3
10	P5138-02	002-35TH-AVE(NOV)	1.3882	1.3882	150	1.4046	1.4046	1.4046	0.0164	109.3
11	P5139-01	001-WILLETS-PT-BLVD(DEC)	1.3945	1.3945	200	1.4112	1.4112	1.4112	0.0167	83.5
12	P5139-02	002-35TH-AVE(DEC)	1.3662	1.3662	200	1.3842	1.3842	1.3842	0.0180	90
13	P5141-01	WATER TREATMENT DISCHARGE	1.3633	1.3633	500	1.3673	1.3673	1.3673	0.0040	8
14	P5142-01	TOWERS-1	1.4019	1.4019	2000	1.4123	1.4123	1.4123	0.0104	5.2
15	P5142-03	TOWERS-2	1.3938	1.3938	1000	1.4007	1.4007	1.4007	0.0069	6.9

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona
ANALYST: Niha
Date: 12/06/2024
Run Number: LB133838
BalanceID: WC SC-6
OvenID: WC OVEN-1
FilterID: 17416528
ThermometerID: WET OVEN#1

TEMP1 IN:	103 °C	12/06/2024 11:00	**TEMP1 OUT:**	104 °C	12/06/2024 12:00
TEMP2 IN:	104 °C	12/06/2024 12:30	**TEMP2 OUT:**	103 °C	12/06/2024 13:30
TEMP3 IN:	104 °C	12/09/2024 11:00	**TEMP3 OUT:**	103 °C	12/09/2024 12:30
TEMP4 IN:	104 °C	12/09/2024 13:00	**TEMP4 OUT:**	103 °C	12/09/2024 14:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
16	P5143-01	DSN002	1.3569	1.3569	1000	1.3747	1.3747	1.3747	0.0178	17.8
17	P5143-03	DSN001	1.3967	1.3967	1000	1.4128	1.4128	1.4128	0.0161	16.1
18	P5143-05	DSN003	1.3983	1.3983	2000	1.4073	1.4073	1.4073	0.0090	4.5
19	P5145-01	286085	1.3954	1.3954	300	1.6235	1.6235	1.6235	0.2281	760.3
20	P5146-01	EFFLUENT	1.4009	1.4009	10	1.4173	1.4173	1.4173	0.0164	1640
21	P5146-04	AERATION TK 1	1.4004	1.4004	10	1.4273	1.4273	1.4273	0.0269	2690
22	P5192-02	EFF-WASTE WATER	1.4120	1.4120	500	1.4276	1.4276	1.4276	0.0156	31.2

A = Sample Volume (ml)
B = Final Empty Dish Weight (g)
C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)
D = Weight (g)

Weight (g) = C - B

Result mg/L = $\frac{D}{A} * 1000 * 1000$

LB133838

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TSS-12052024 **WorkList ID :** 186012 **Department :** Wet-Chemistry **Date :** 12-05-2024 12:33:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5074-02	COMP	Water	TSS	Cool 4 deg C	ARAM01	M11	12/04/2024	SM2540 D
P5068-01	14B-1	Water	TSS	Cool 4 deg C	NEWY17	L61	12/03/2024	SM2540 D
P5068-02	14B-2	Water	TSS	Cool 4 deg C	NEWY17	L61	12/03/2024	SM2540 D
P5068-03	14B-3	Water	TSS	Cool 4 deg C	NEWY17	L61	12/03/2024	SM2540 D
P5068-04	14B-4	Water	TSS	Cool 4 deg C	NEWY17	L61	12/03/2024	SM2540 D
P5145-01	286085	Water	TSS	Cool 4 deg C	PSEG03	L51	12/05/2024	SM2540 D
P5142-01	TOWERS-1	Water	TSS	Cool 4 deg C	PSEG04	L61	12/05/2024	SM2540 D
P5142-03	TOWERS-2	Water	TSS	Cool 4 deg C	PSEG04	L61	12/05/2024	SM2540 D
P5143-01	DSN002	Water	TSS	Cool 4 deg C	PSEG04	L51	12/05/2024	SM2540 D
P5143-03	DSN001	Water	TSS	Cool 4 deg C	PSEG04	L51	12/05/2024	SM2540 D
P5143-05	DSN003	Water	TSS	Cool 4 deg C	PSEG04	L51	12/05/2024	SM2540 D
P5141-01	WATER TREATMENT DISCHAI	Water	TSS	Cool 4 deg C	VERI01	M11	12/05/2024	SM2540 D
P5192-02	EFF-WASTE WATER	Water	TSS	Cool 4 deg C	ARDM01	M11	12/06/2024	SM2540 D
P5146-01	EFFLUENT	Water	TSS	Cool 4 deg C	HOLL01	M11	12/05/2024	SM2540 D
P5146-04	AERATION TK 1	Water	TSS	Cool 4 deg C	HOLL01	M11	12/05/2024	SM2540 D
P5138-01	001-WILLETS-PT-BLVD(NOV)	Water	TSS	Cool 4 deg C	TULL01	L51	12/04/2024	SM2540 D
P5138-02	002-35TH-AVE(NOV)	Water	TSS	Cool 4 deg C	TULL01	L51	12/04/2024	SM2540 D
P5139-01	001-WILLETS-PT-BLVD(DEC)	Water	TSS	Cool 4 deg C	TULL01	L51	12/04/2024	SM2540 D
P5139-02	002-35TH-AVE(DEC)	Water	TSS	Cool 4 deg C	TULL01	L51	12/04/2024	SM2540 D

Date/Time 12.09.2024 10:00
Raw Sample Received by: NP (WC)
Raw Sample Relinquished by:

Date/Time 12.09.2024 12:00
Raw Sample Received by:
Raw Sample Relinquished by: NP (WC)

L61338

Test results | Aquakem 7.2AQ1 | Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

12/9/2024 14:55 | Reviewed by : RM | Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.044	0.0	0.141	
ICB1	-0.007	0.0	0.029	
CCV1	1.062	0.0	0.143	
CCB1	-0.008	0.0	0.029	
RL CHECK	0.089	0.0	0.040	89% (50–150) 12/09/2024 RM
PB165461BL	-0.013	0.0	0.029	
PB165461BS	1.038	0.0	0.140	
P5139-01	1.782	0.0	0.219	
P5139-01DUP	1.790	0.0	0.220	
P5139-01MS	2.839	0.0	0.331	Test limit high
P5139-01MSD	2.852	0.0	0.333	Test limit high
P5139-02	1.918	0.0	0.233	
P5141-01	0.695	0.0	0.104	
P5145-01	-0.023	0.0	0.028	
CCV2	1.027	0.0	0.139	
CCB2	0.003	0.0	0.030	
P5146-01	10.410	0.0	1.134	Test limit high
P5146-05	3.526	0.0	0.404	Test limit high
CCV3	1.022	0.0	0.138	
CCB3	-0.003	0.0	0.030	
P5146-01DLX10	1.050	0.0	0.141	
P5146-05DLX2	1.722	0.0	0.213	
CCV4	1.048	0.0	0.141	
CCB4	-0.001	0.0	0.030	

N	24
Mean	1.453
SD	2.1616
CV%	148.82

Aquakem v. 7.2AQ1
Results from time period:
Mon Dec 09 13:33:57 2024
Mon Dec 09 14:54:49 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-N	P	-0.0238	mg/l	12/9/2024 13:33:57	
0.1PPM	A	Ammonia-N	P	0.1062	mg/l	12/9/2024 13:33:58	
0.2PPM	A	Ammonia-N	P	0.1973	mg/l	12/9/2024 13:33:59	
0.4PPM	A	Ammonia-N	P	0.3879	mg/l	12/9/2024 13:34:00	
1.0PPM	A	Ammonia-N	P	1.0493	mg/l	12/9/2024 13:34:01	
1.3PPM	A	Ammonia-N	P	1.3494	mg/l	12/9/2024 13:34:02	
2.0PPM	A	Ammonia-N	P	1.967	mg/l	12/9/2024 13:34:03	
ICV1	S	Ammonia-N	P	1.0438	mg/l	12/9/2024 14:06:34	
ICB1	S	Ammonia-N	P	-0.0073	mg/l	12/9/2024 14:06:35	
CCV1	S	Ammonia-N	P	1.0617	mg/l	12/9/2024 14:06:38	
CCB1	S	Ammonia-N	P	-0.008	mg/l	12/9/2024 14:06:39	
RL CHECK	S	Ammonia-N	P	0.0893	mg/l	12/9/2024 14:06:41	
PB165461BL	S	Ammonia-N	P	-0.0128	mg/l	12/9/2024 14:06:44	
PB165461BS	S	Ammonia-N	P	1.0378	mg/l	12/9/2024 14:17:18	
P5139-01	S	Ammonia-N	P	1.7815	mg/l	12/9/2024 14:17:19	
P5139-01DUP	S	Ammonia-N	P	1.7899	mg/l	12/9/2024 14:17:21	
P5139-01MS	S	Ammonia-N	P	2.8389	mg/l	12/9/2024 14:17:23	
P5139-01MSD	S	Ammonia-N	P	2.8523	mg/l	12/9/2024 14:17:24	
P5139-02	S	Ammonia-N	P	1.9176	mg/l	12/9/2024 14:17:27	
P5141-01	S	Ammonia-N	P	0.6952	mg/l	12/9/2024 14:17:28	
P5145-01	S	Ammonia-N	P	-0.0232	mg/l	12/9/2024 14:27:24	
CCV2	S	Ammonia-N	P	1.0268	mg/l	12/9/2024 14:27:25	
CCB2	S	Ammonia-N	P	0.0029	mg/l	12/9/2024 14:27:28	
P5146-01	S	Ammonia-N	P	10.4104	mg/l	12/9/2024 14:27:29	
P5146-05	S	Ammonia-N	P	3.5257	mg/l	12/9/2024 14:27:30	
CCV3	S	Ammonia-N	P	1.0221	mg/l	12/9/2024 14:27:32	
CCB3	S	Ammonia-N	P	-0.0032	mg/l	12/9/2024 14:27:34	
P5146-01DLX10	S	Ammonia-N	P	1.0503	mg/l	12/9/2024 14:54:42	
P5146-05DLX2	S	Ammonia-N	P	1.7223	mg/l	12/9/2024 14:54:45	
CCV4	S	Ammonia-N	P	1.0482	mg/l	12/9/2024 14:54:47	
CCB4	S	Ammonia-N	P	-0.0009	mg/l	12/9/2024 14:54:48	

Calibration results Aquakem 7.2AQ1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

12/9/2024 13:35

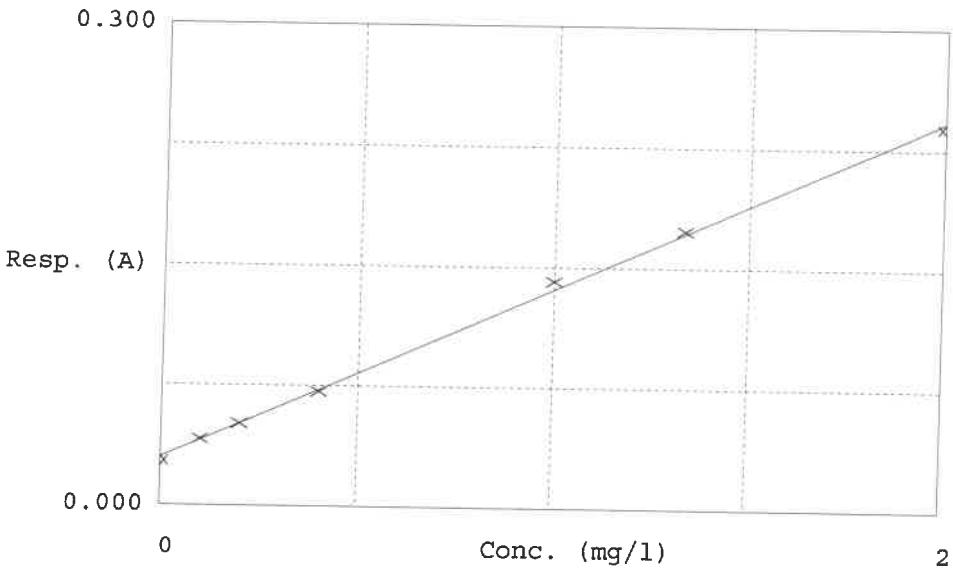
Test Ammonia-N

Accepted 12/9/2024 13:35

Factor 9.431
Bias 0.030

Coeff. of det. 0.998655

Errors



	Calibrator	Response	Calc. con.	Conc.	Re Errors
1	0.00PPM	0.028	-0.0238	0.0000	-
2	NH3-2PPM	0.041	0.1062	0.1000	6.2
3	NH3-2PPM	0.051	0.1973	0.2000	-1.4
4	NH3-2PPM	0.071	0.3879	0.4000	-3.0
5	NH3-2PPM	0.141	1.0493	1.0000	4.9
6	NH3-2PPM	0.173	1.3494	1.3333	3.8
7	NH3-2PPM	0.239	1.9670	2.0000	-1.7

12/09/2024
RM

Alliance TECHNICAL GROUP

Water Phosphorus-Total Preparation Sheet

PB165447

SOP ID : M365.3 & SM4500-P E-18

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#3

Block ID : WC S-1, WC S-2

Weigh By : N/A

Start Digest Date: 12/06/2024 **Time :** 10:10 **Temp :** 95 °C

End Digest Date: 12/06/2024 **Time :** 11:10 **Temp :** 96 °C

Digestion tube ID : M5595

Filter paper ID : 400213

pH Meter ID : N/A

Block Thermometer ID : WC-BLOCK#1

Prep Technician Signature: NF

Supervisor Signature: JL

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.5ML	WP110401
MS/MSD SPIKE SOL.	0.5ML	WP110400
PBW	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP109922
AMMONIUM PERSULFATE	0.4g	W3035
pH Paper 0-14	N/A	W3140
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP110992
CAL2	CAL2	50.0ML	WP110993
CAL3	CAL3	50.0ML	WP110994
CAL4	CAL4	50.0ML	WP110995
CAL5	CAL5	50.0ML	WP110996
CAL6	CAL6	50.0ML	WP110997
ICV	ICV	50.0ML	WP110998
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP110999
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

NF 12/16/2024

Alliance TECHNICAL GROUP

Water Phosphorus-Total Preparation Sheet

PB165447

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P5146-01	EFFLUENT	50	50	<2	N/A	N/A	N/A	N/A	N/A
P5146-01DUP	EFFLUENTDUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
P5146-01MS	EFFLUENTMS	50	50	<2	N/A	N/A	N/A	N/A	N/A
P5146-01MSD	EFFLUENTMSD	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB165447BL	PBW447	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB165447BS	LCS447	50	50	<2	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB165461

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : N/A

Start Digest Date: 12/09/2024 **Time :** 08:50 **Temp :** 150 °C

End Digest Date: 12/09/2024 **Time :** 09:50 **Temp :** 160 °C

11 batch 12/09/2024 10:10 150 C
12/09/2024 11:10 160 C } RM

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP110715
MS/MSD SPIKE SOL.	1.0ML	WP110714
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP110714
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP108708
NAOH 6N	0.5-2.0ML	WP108660
H2SO4 0.04N	5.0ML	WP110335
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP108814,Due to bad matrix and client history 1ML was taken as an initial volume for P5146-01 and P5146-05.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/09/2024 11.30	RM CWC	RM CWC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB165461

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P5139-01	001-WILLETS-PT-BLVD(DEC)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5139-01DUP	001-WILLETS-PT-BLVD(DEC) DUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5139-01MS	001-WILLETS-PT-BLVD(DEC) MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5139-01MSD	001-WILLETS-PT-BLVD(DEC) MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5139-02	002-35TH-AVE(DEC)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5141-01	WATER TREATMENT DISCHARGE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5145-01	286085	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5146-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5146-05	INFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB165461BL	PBW461	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB165461BS	LCS461	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB133770

Review By	rubina	Review On	12/10/2024 2:37:16 PM
Supervise By	Iwona	Supervise On	12/12/2024 9:48:12 AM
SubDirectory	LB133770	Test	BOD5

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110974,W3149,WP110386,W3103,W3109,W3105,WP110976,WP110975,WP108662

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133770BL	LB133770BL	MB	12/05/24 17:40		rubina	OK
2	LB133770BS	LB133770BS	LCS	12/05/24 17:40		rubina	OK
3	P5074-02	COMP	SAM	12/05/24 17:40	Intermediate dilution	rubina	OK
4	P5074-02DUP	COMPDUP	DUP	12/05/24 17:40	Intermediate dilution	rubina	OK
5	P5139-01	001-WILLETS-PT-BL	SAM	12/05/24 17:40		rubina	OK
6	P5139-02	002-35TH-AVE(DEC)	SAM	12/05/24 17:40		rubina	OK
7	P5141-01	WATER TREATMENT	SAM	12/05/24 17:40		rubina	OK
8	P5143-01	DSN002	SAM	12/05/24 17:40		rubina	OK
9	P5143-03	DSN001	SAM	12/05/24 17:40		rubina	OK
10	P5143-05	DSN003	SAM	12/05/24 17:40		rubina	OK
11	P5145-01	286085	SAM	12/05/24 17:40		rubina	OK
12	P5146-01	EFFLUENT	SAM	12/05/24 17:40	Intermediate dilution	rubina	OK
13	P5146-05	INFLUENT	SAM	12/05/24 17:40	Intermediate dilution	rubina	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB133785

Review By	jignesh	Review On	12/6/2024 2:34:01 PM
Supervise By	Iwona	Supervise On	12/12/2024 11:50:38 AM
SubDirectory	LB133785	Test	Oil and Grease

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3153,M6069,EP2570,WP110826,NA,NA,WP100827,NA,WP100828

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133785BL	LB133785BL	MB	12/06/24 10:30		jignesh	OK
2	LB133785BS	LB133785BS	LCS	12/06/24 10:30		jignesh	OK
3	P5138-01	001-WILLETS-PT-BL	SAM	12/06/24 10:30		jignesh	OK
4	P5138-02	002-35TH-AVE(NOV)	SAM	12/06/24 10:30		jignesh	OK
5	P5139-01	001-WILLETS-PT-BL	SAM	12/06/24 10:30		jignesh	OK
6	P5139-02	002-35TH-AVE(DEC)	SAM	12/06/24 10:30		jignesh	OK
7	P5141-02	WATER TREATMENT	SAM	12/06/24 10:30		jignesh	OK
8	P5141-03	P5141-02MS	MS	12/06/24 10:30		jignesh	OK
9	P5141-04	P5141-02MSD	MSD	12/06/24 10:30		jignesh	OK
10	P5146-01	EFFLUENT	SAM	12/06/24 10:30		jignesh	OK
11	P5146-02	P5146-01MS	MS	12/06/24 10:30		jignesh	OK
12	P5146-03	P5146-01MSD	MSD	12/06/24 10:30		jignesh	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133795

Review By	Niha	Review On	12/9/2024 12:54:19 PM
Supervise By	Iwona	Supervise On	12/9/2024 4:09:14 PM
SubDirectory	LB133795	Test	Phosphorus-Ortho

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110997,WP110996,WP110995,WP110994,WP110993,WP110992,WP110999,WP110380,WP111001,WP108727,V

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/06/24 15:42		Iwona	OK
2	CAL2	CAL2	CAL	12/06/24 15:42		Iwona	OK
3	CAL3	CAL3	CAL	12/06/24 15:43		Iwona	OK
4	CAL4	CAL4	CAL	12/06/24 15:43		Iwona	OK
5	CAL5	CAL5	CAL	12/06/24 15:44		Iwona	OK
6	CAL6	CAL6	CAL	12/06/24 15:44		Iwona	OK
7	ICV	ICV	ICV	12/06/24 15:45		Iwona	OK
8	ICB	ICB	ICB	12/06/24 15:45		Iwona	OK
9	CCB1	CCB1	CCB	12/06/24 15:46		Iwona	OK
10	RL Check	RL Check	SAM	12/06/24 15:47		Iwona	OK
11	LB133795BL	LB133795BL	MB	12/06/24 15:47		Iwona	OK
12	LB133795BS	LB133795BS	LCS	12/06/24 15:48		Iwona	OK
13	P5146-01	EFFLUENT	SAM	12/06/24 15:48		Iwona	OK
14	P5146-01DUP	EFFLUENTDUP	DUP	12/06/24 15:49		Iwona	OK
15	P5146-01MS	EFFLUENTMS	MS	12/06/24 15:49		Iwona	OK
16	P5146-01MSD	EFFLUENTMSD	MSD	12/06/24 15:50		Iwona	OK
17	CCV2	CCV2	CCV	12/06/24 15:50		Iwona	OK
18	CCB2	CCB2	CCB	12/06/24 15:51		Iwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133795

Review By	Niha	Review On	12/9/2024 12:54:19 PM
Supervise By	Iwona	Supervise On	12/9/2024 4:09:14 PM
SubDirectory	LB133795	Test	Phosphorus-Ortho

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110997,WP110996,WP110995,WP110994,WP110993,WP110992,WP110999,WP110380,WP111001,WP108727,\

19	CCV1	CCV1	CCV	12/09/24 15:46		Iwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133797

Review By	Niha	Review On	12/9/2024 1:49:53 PM
Supervise By	Iwona	Supervise On	12/9/2024 4:22:01 PM
SubDirectory	LB133797	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110997,WP110996,WP110995,WP110994,WP110993,WP110992,WP110999,WP111001,WP108727,WP108662,\

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/06/24 16:00		Iwona	OK
2	CAL2	CAL2	CAL	12/06/24 16:00		Iwona	OK
3	CAL3	CAL3	CAL	12/06/24 16:01		Iwona	OK
4	CAL4	CAL4	CAL	12/06/24 16:01		Iwona	OK
5	CAL5	CAL5	CAL	12/06/24 16:02		Iwona	OK
6	CAL6	CAL6	CAL	12/06/24 16:02		Iwona	OK
7	ICV	ICV	ICV	12/06/24 16:03		Iwona	OK
8	ICB	ICB	ICB	12/06/24 16:03		Iwona	OK
9	CCV1	CCV1	CCV	12/06/24 16:04		Iwona	OK
10	CCB1	CCB1	CCB	12/06/24 16:04		Iwona	OK
11	PB165447BL	PB165447BL	MB	12/06/24 16:05		Iwona	OK
12	PB165447BS	PB165447BS	LCS	12/06/24 16:06		Iwona	OK
13	P5146-01	EFFLUENT	SAM	12/06/24 16:06		Iwona	OK
14	P5146-01DUP	EFFLUENTDUP	DUP	12/06/24 16:07		Iwona	OK
15	P5146-01MS	EFFLUENTMS	MS	12/06/24 16:07		Iwona	OK
16	P5146-01MSD	EFFLUENTMSD	MSD	12/06/24 16:08		Iwona	OK
17	CCV2	CCV2	CCV	12/06/24 16:08		Iwona	OK
18	CCB2	CCB2	CCB	12/06/24 16:09		Iwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133797

Review By	Niha	Review On	12/9/2024 1:49:53 PM
Supervise By	Iwona	Supervise On	12/9/2024 4:22:01 PM
SubDirectory	LB133797	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110997,WP110996,WP110995,WP110994,WP110993,WP110992,WP110999,WP111001,WP108727,WP108662,\

19	RL Check	RL Check	SAM	12/09/24 16:05		Iwona	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB133838

Review By	Niha	Review On	12/9/2024 3:58:06 PM
Supervise By	Iwona	Supervise On	12/9/2024 4:07:11 PM
SubDirectory	LB133838	Test	TSS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133838BL	LB133838BL	MB	12/09/24 11:00		Niha	OK
2	LB133838BS	LB133838BS	LCS	12/09/24 11:00		Niha	OK
3	P5068-01	14B-1	SAM	12/09/24 11:00		Niha	OK
4	P5068-01DUP	14B-1DUP	DUP	12/09/24 11:00		Niha	OK
5	P5068-02	14B-2	SAM	12/09/24 11:00		Niha	OK
6	P5068-03	14B-3	SAM	12/09/24 11:00		Niha	OK
7	P5068-04	14B-4	SAM	12/09/24 11:00		Niha	OK
8	P5074-02	COMP	SAM	12/09/24 11:00		Niha	OK
9	P5138-01	001-WILLETS-PT-BL	SAM	12/09/24 11:00		Niha	OK
10	P5138-02	002-35TH-AVE(NOV)	SAM	12/09/24 11:00		Niha	OK
11	P5139-01	001-WILLETS-PT-BL	SAM	12/09/24 11:00		Niha	OK
12	P5139-02	002-35TH-AVE(DEC)	SAM	12/09/24 11:00		Niha	OK
13	P5141-01	WATER TREATMENT	SAM	12/09/24 11:00		Niha	OK
14	P5142-01	TOWER-1	SAM	12/09/24 11:00		Niha	OK
15	P5142-03	TOWER-2	SAM	12/09/24 11:00		Niha	OK
16	P5143-01	DSN002	SAM	12/09/24 11:00		Niha	OK
17	P5143-03	DSN001	SAM	12/09/24 11:00		Niha	OK
18	P5143-05	DSN003	SAM	12/09/24 11:00		Niha	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB133838

Review By	Niha	Review On	12/9/2024 3:58:06 PM
Supervise By	Iwona	Supervise On	12/9/2024 4:07:11 PM
SubDirectory	LB133838	Test	TSS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

19	P5145-01	286085	SAM	12/09/24 11:00		Niha	OK
20	P5146-01	EFFLUENT	SAM	12/09/24 11:00		Niha	OK
21	P5146-04	AERATION TK 1	SAM	12/09/24 11:00		Niha	OK
22	P5192-02	EFF-WASTE WATER	SAM	12/09/24 11:00		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133842

Review By	rubina	Review On	12/10/2024 12:27:41 PM
Supervise By	Iwona	Supervise On	12/10/2024 12:31:39 PM
SubDirectory	LB133842	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP111021
ICV Standard	WP111023
CCV Standard	WP111022
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP110715
Chk Standard	WP110416,WP110019,WP108709,WP108840

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	12/09/24 13:33		rubina	
2	0.1PPM	0.1PPM	CAL2	12/09/24 13:33		rubina	
3	0.2PPM	0.2PPM	CAL3	12/09/24 13:33		rubina	
4	0.4PPM	0.4PPM	CAL4	12/09/24 13:34		rubina	
5	1.0PPM	1.0PPM	CAL5	12/09/24 13:34		rubina	
6	1.3PPM	1.3PPM	CAL6	12/09/24 13:34		rubina	
7	2.0PPM	2.0PPM	CAL7	12/09/24 13:34		rubina	
8	ICV1	ICV1	ICV	12/09/24 14:06		rubina	
9	ICB1	ICB1	ICB	12/09/24 14:06		rubina	
10	CCV1	CCV1	CCV	12/09/24 14:06		rubina	
11	CCB1	CCB1	CCB	12/09/24 14:06		rubina	
12	RL	RL	SAM	12/09/24 14:06		rubina	
13	PB165461BL	PB165461BL	MB	12/09/24 14:06		rubina	
14	PB165461BS	PB165461BS	LCS	12/09/24 14:17		rubina	
15	P5139-01	001-WILLETS-PT-BL\	SAM	12/09/24 14:17		rubina	
16	P5139-01DUP	001-WILLETS-PT-BL\	DUP	12/09/24 14:17		rubina	
17	P5139-01MS	001-WILLETS-PT-BL\	MS	12/09/24 14:17		rubina	
18	P5139-01MSD	001-WILLETS-PT-BL\	MSD	12/09/24 14:17		rubina	

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133842

Review By	rubina	Review On	12/10/2024 12:27:41 PM
Supervise By	Iwona	Supervise On	12/10/2024 12:31:39 PM
SubDirectory	LB133842	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP111021
ICV Standard	WP111023
CCV Standard	WP111022
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP110715
Chk Standard	WP110416,WP110019,WP108709,WP108840

19	P5139-02	002-35TH-AVE(DEC)	SAM	12/09/24 14:17		rubina	
20	P5141-01	WATER TREATMENT	SAM	12/09/24 14:17		rubina	
21	P5145-01	286085	SAM	12/09/24 14:27		rubina	
22	CCV2	CCV2	CCV	12/09/24 14:27		rubina	
23	CCB2	CCB2	CCB	12/09/24 14:27		rubina	
24	P5146-01	EFFLUENT	SAM	12/09/24 14:27		rubina	
25	P5146-05	INFLUENT	SAM	12/09/24 14:27		rubina	
26	CCV3	CCV3	CCV	12/09/24 14:27		rubina	
27	CCB3	CCB3	CCB	12/09/24 14:27		rubina	
28	P5146-01DL	EFFLUENTDL	SAM	12/09/24 14:54		rubina	
29	P5146-05DL	INFLUENTDL	SAM	12/09/24 14:54		rubina	
30	CCV4	CCV4	CCV	12/09/24 14:54		rubina	
31	CCB4	CCB4	CCB	12/09/24 14:54		rubina	

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P5146
QUOTE NO.
COC Number 2041818

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: HOLLAND MFG Co
ADDRESS: 15 MAIN ST
CITY SUSQUEHANNA STATE: NJ ZIP: 07816
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: HMC
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ❑ Level 1 (Results Only)
- ❑ Level 2 (Results + QC)
- ❑ Level 3 (Results + QC + Raw Data)
- ❑ EDD FORMAT _____
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other _____

ANALYSIS

	1	2	3	4	5	6	7	8	9
	BOD5	TSS	O+G	PO4	NH3				
PRESERVATIVES	E	E	C	C	C	C			

Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	EFFLUENT	W		✓	12/5	1045	6	✓	✓	✓	✓	✓	✓				
2.	AERATION TK1	W		✓	12/5	1045	1		✓								
3.	INFLUENT	W		✓	12/5	1045	2	✓					✓				
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12/5 1330	1. 1430 12/5/24
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 3.1 °C
Comments: LAB TO FILTER

Page ____ of ____

CLIENT: ❑ Hand Delivered ❑ Other _____
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete ❑ YES ❑ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488