

LAB CHRONICLE

OrderID: Q2935

Client: Holland Manufacturing Co.

Contact: Todd Holland

OrderDate: 8/21/2025 2:48:00 PM

Project: Pre Treatment Plant 2025

Location: D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2935-01	EFFLUENT	WATER			08/21/25 13:00			08/21/25
			Ammonia	SM4500-NH3		08/22/25	08/22/25 12:41	
			BOD5	SM5210 B			08/22/25 10:30	
			Oil and Grease	1664A			08/25/25 09:45	
			Phosphorus-Ortho	SM4500-P E			09.43 08/21/25 16:46	
			Phosphorus-Total	365.3		08/25/25	08/25/25 16:36	
			TSS	SM2540 D			08/26/25 13:00	
Q2935-01DL	EFFLUENTDL	WATER			08/21/25 13:00			08/21/25
			Ammonia	SM4500-NH3	13:00	08/22/25	08/22/25 13:32	
Q2935-04	AERATION	WATER			08/21/25 13:00		10.02	08/21/25
			TSS	SM2540 D			08/26/25 13:00	
Q2935-05	INFLUENT	WATER			08/21/25 13:00			08/21/25
			Ammonia	SM4500-NH3		08/22/25	08/22/25 12:41	
			BOD5	SM5210 B			08/22/25 10:30	



LAB CHRONICLE

Q2935-05DL INFLUENTDL WATER 08/21/25 08/21/25 13:00

Ammonia SM4500-NH3 08/22/25 08/22/25

13:40



SAMPLE DATA



Lab Sample ID:

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

Fax: 908 789 8922

Q2935-01

Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 08/21/25 13:00

Project: Pre Treatment Plant 2025 Date Received: 08/21/25

Client Sample ID: EFFLUENT SDG No.: Q2935

% Solid: 0

WATER

Matrix:

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	538	OR	1	1.50	5.00	mg/L	08/22/25 10:15	08/22/25 12:41	SM 4500-NH3
									B plus G-21
BOD5	5570		1	0.20	2.00	mg/L		08/22/25 10:30	SM 5210 B-16
Oil and Grease	15.1		1	0.29	5.00	mg/L		08/25/25 09:45	1664A
Orthophosphate as P	0.12		1	0.0040	0.050	mg/L		08/21/25 16:46	SM 4500-P
									E-21
Phosphorus, Total	0.17		1	0.0050	0.050	mg/L	08/25/25 10:00	08/25/25 16:36	365.3
TSS	3100		1	1.00	4.00	mg/L		08/26/25 13:00	SM 2540 D-20

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



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Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 08/21/25 13:00 Project: Pre Treatment Plant 2025 Date Received: 08/21/25 Client Sample ID: **EFFLUENTDL** SDG No.: Q2935 Lab Sample ID: Q2935-01DL Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	505	D	10	15.0	50.0	mg/L	08/22/25 10:15	08/22/25 13:32	SM 4500-NH3 B plus G-21

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



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Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 08/21/25 13:00 Project: Pre Treatment Plant 2025 Date Received: 08/21/25 Client Sample ID: **AERATION** SDG No.: Q2935 Lab Sample ID: Q2935-04 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	3860	1 1.00	4.00	mg/L		08/26/25 13:00	SM 2540 D-20

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



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Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 08/21/25 13:00 Project: Pre Treatment Plant 2025 Date Received: 08/21/25 Client Sample ID: **INFLUENT** SDG No.: Q2935 Lab Sample ID: Q2935-05 Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	365	OR	1	1.50	5.00	mg/L	08/22/25 10:15	08/22/25 12:41	SM 4500-NH3 B plus G-21
BOD5	23200		1	0.20	2.00	mg/L		08/22/25 10:30	*

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



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Report of Analysis

Client: Holland Manufacturing Co. Date Collected: 08/21/25 13:00 Project: Pre Treatment Plant 2025 Date Received: 08/21/25 Client Sample ID: **INFLUENTDL** SDG No.: Q2935 Lab Sample ID: Q2935-05DL Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	342	D	5	7.50	25.0	mg/L	08/22/25 10:15	08/22/25 13:40	
									B plus G-21

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



QC RESULT SUMMARY



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$

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Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Orthophosphate	ICV as P	mg/L	0.490	0.50	98	90-110	08/21/2025
Sample ID: Orthophosphate	CCV1 as P	mg/L	0.493	0.5	99	90-110	08/21/2025
Sample ID: Orthophosphate	CCV2 as P	mg/L	0.505	0.5	101	90-110	08/21/2025



Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						_
Ammonia as N		mg/L	1	1	100	90-110	08/22/2025
Sample ID:	CCV1						
Ammonia as N		mg/L	1	1	100	90-110	08/22/2025
Sample ID:	CCV2						
Ammonia as N		mg/L	1	1	100	90-110	08/22/2025
Sample ID:	CCV3						
Ammonia as N		mg/L	1	1	100	90-110	08/22/2025
Sample ID:	CCV4						
Ammonia as N		mg/L	1	1	100	90-110	08/22/2025





Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	/T	0.500	0.50	100	90-110	08/25/2025
Phosphorus,		mg/L	0.500	0.50	100	90-110	
Sample ID:	CCV1						
Phosphorus,	Total	mg/L	0.495	0.50	99	90-110	08/25/2025
Sample ID:	CCV2						
Phosphorus,	Total	mg/L	0.497	0.50	99	90-110	08/25/2025





Initial and Continuing Calibration Blank Summary

Holland Manufacturing Co. Q2935 **Client:** SDG No.:

Project: Pre Treatment Plant 2025 LB136914 RunNo.:

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0038	0.05	08/21/2025
Sample ID: CCB1 Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0038	0.05	08/21/2025
Sample ID: CCB2 Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0038	0.05	08/21/2025



Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							_
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	08/22/2025
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	08/22/2025
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	08/22/2025
Sample ID: CCB3							
Ammonia as N	mg/L	0.03	0.0500	J	0.030	0.1	08/22/2025
Sample ID: CCB4							
Ammonia as N	mg/L	0.036	0.0500	J	0.030	0.1	08/22/2025



Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
Phosphorus,	Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	08/25/2025
Sample ID:	CCB1							
Phosphorus,	Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	08/25/2025
Sample ID:	CCB2							
Phosphorus,	Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	08/25/2025



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Preparation Blank Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136914	4BL						
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.004	0.05	08/21/2025
Sample ID: LB13692	5BL						
BOD5	mg/L	< 0.2000	0.2000	U	0.20	2.0	08/22/2025
Sample ID: LB13694	1BL						
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.29	5.0	08/25/2025
Sample ID: LB136960	6BL						
TSS	mg/L	1	2.0000	J	1	4	08/26/2025
Sample ID: PB16935	4BL						
Ammonia as N	mg/L	0.032	0.0500	J	0.03	0.1	08/22/2025
Sample ID: PB16938	4BL						
Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.005	0.05	08/25/2025



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Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2935-01

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	0.61		0.12		0.5	1	98		08/21/2025
Phosphorus, Total	mg/L	90-110	0.64		0.17		0.5	1	94		08/25/2025
Ammonia as N	mg/L	75-125	593	OR	538	OR	50	1	110		08/22/2025



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Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2935-01

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
Orthophosphate as P	mg/L	90-110	0.61		0.12		0.5	1	99	0	8/21/2025
Phosphorus, Total	mg/L	90-110	0.64		0.17		0.5	1	94	0	8/25/2025
Ammonia as N	mg/L	75-125	590	OR	538	OR	50	1	104	0	8/22/2025



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Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2935-01

Client ID: EFFLUENTMS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	35.2		15.1		20.0	1	101		08/25/2025	-



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Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2935-01

Client ID: EFFLUENTMSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Oil and Grease	mg/L	78-114	35.5		15.1		20.0	1	102		08/25/2025



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Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2942-01

Client ID: MH-8-22-25MS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	70.5		50.5		20.0	1	100		08/25/2025	•



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Matrix Spike Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2942-01

Client ID: MH-8-22-25MSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis	
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date	
Oil and Grease	mg/L	78-114	70.8		50.5		20.0	1	102		08/25/2025	



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2910-02

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	374		362		1	3.35		08/22/2025



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2935-01

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	0.12		0.12		1	0.86		08/21/2025
Ammonia as N	mg/L	+/-20	538	OR	539	OR	1	0		08/22/2025
Phosphorus, Total	mg/L	+/-20	0.17		0.17		1	1.18		08/25/2025
Ammonia as N	mg/L	+/-20	505	D	514	D	10	2		08/22/2025



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2935-01

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	0.61		0.61		1	0.49		08/21/2025
Ammonia as N	mg/L	+/-20	593	OR	590	OR	1	1		08/22/2025
Phosphorus, Total	mg/L	+/-20	0.64		0.64		1	0.47		08/25/2025



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2935-01

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	35.2		35.5		1	0.85		08/25/2025	



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 **Sample ID:** Q2940-01

Client ID: COMP(1-6)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
TSS	mg/L	+/-5	80.3		80.4		1	0.12		08/26/2025



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Duplicate Sample Summary

Client: Holland Manufacturing Co. SDG No.: Q2935

Project: Pre Treatment Plant 2025 Sample ID: Q2942-01

Client ID: MH-8-22-25MSD 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	70.5		70.8		1	0.42		08/25/2025	





Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136914BS								
Orthophosphate as P	mg/L	0.5	0.51		102	1	90-110	08/21/2025





Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136925BS								
BOD5		mg/L	198	205		104	1	84.6-115.4	08/22/2025





Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136941BS								
Oil and Grease	mg/L	20.0	16.8		84	1	78-114	08/25/2025





Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136966BS								
TSS		mg/L	550	532		97	1	90-110	08/26/2025





Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB169354BS								
Ammonia as N	mg/L	1	1.00		100	1	90-110	08/22/2025





Client: Holland Manufacturing Co. SDG No.: Q2935

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB169384BS								_
Phosphorus, Total	mg/L	0.50	0.50		99	1	90-110	08/25/2025