

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

LAB CHRONICLE

OrderID:	Q3368	OrderDate:	10/16/2025 2:05:00 PM
Client:	Aramark Uniforms	Project:	Monthly 2025
Contact:	Tom Dikos	Location:	D41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3368-06	OUTSIDE-DUMPSTER	SOIL			10/16/25 13:00			10/16/25
			Corrosivity	9045D			10/21/25 12:44	
			Ignitability	1030			10/21/25 10:10	
			Oil and Grease	9071B			10/29/25 10:00	
			Paint Filter	9095B			10/21/25 08:35	
			Reactive Cyanide	9012B		10/21/25	10/21/25 12:39	
			Reactive Sulfide	9034		10/20/25	10/21/25 09:03	
			TS	SM2540 B			10/28/25 11:00	
			TVS	160.4			10/28/25 17:30	
Q3368-07	PRESS-SLUDGE	SOIL			10/16/25 13:04			10/16/25
			Corrosivity	9045D			10/21/25 12:49	
			Ignitability	1030			10/21/25 10:24	
			Oil and Grease	9071B			10/29/25 10:00	
			Paint Filter	9095B			10/21/25 08:49	
			Reactive Cyanide	9012B		10/21/25	10/21/25 12:39	

LAB CHRONICLE

Q3368-13	OUTSIDE-DUMPSTER	SOIL	Reactive Sulfide	9034	10/20/25	10/21/25 09:06	10/16/25 13:00	10/16/25
			TS	SM2540 B		10/28/25 11:00		
			TVS	160.4		10/28/25 17:30		
			pH	9045D		11/04/25 13:30		
			ASTM Ammonia	SM4500-NH3	10/29/25	10/29/25 15:53		
			ASTM COD	SM5220 D		10/30/25 14:02		
			ASTM Oil and Grease	1664A		10/29/25 15:00		
			ASTM TS	SM2540 B		10/29/25 11:00		
			pH	9045D		11/04/25 13:37		
			ASTM Ammonia	SM4500-NH3	10/29/25	10/29/25 16:01		
Q3368-14	PRESS-SLUDGE	SOIL	ASTM COD	SM5220 D		10/30/25 14:04	10/16/25 13:04	10/16/25
			ASTM Oil and Grease	1664A		10/29/25 15:00		
			ASTM TS	SM2540 B		10/29/25 11:00		
			pH	9045D		11/04/25 13:37		
			ASTM Ammonia	SM4500-NH3	10/29/25	10/29/25 16:01		



SAMPLE DATA

Report of Analysis

Client: Aramark Uniforms
Project: Monthly 2025
Client Sample ID: OUTSIDE-DUMPSTER
Lab Sample ID: Q3368-06

Date Collected: 10/16/25 13:00
Date Received: 10/16/25
SDG No.: Q3368
Matrix: SOIL
% Solid: 67.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.00	H	1	0	0	pH		10/21/25 12:44	9045D
Ignitability	NO		1	0	0	oC		10/21/25 10:10	1030
Oil and Grease	89200		1	8.60	37.0	mg/Kg		10/29/25 10:00	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/21/25 08:35	9095B
Reactive Cyanide	0.0083	U	1	0.0083	0.050	mg/Kg	10/21/25 08:45	10/21/25 12:39	9012B
Reactive Sulfide	3.17	J	1	0.20	10.0	mg/Kg	10/20/25 16:10	10/21/25 09:03	9034
TS	65.1	H	1	1.00	5.00	%		10/28/25 11:00	SM 2540 B-20
TVS	41.8	H	1	1.00	10.0	%		10/28/25 17:30	160.4

Comments: pH result reported at temperature 20.7 °C

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

Report of Analysis

Client: Aramark Uniforms
Project: Monthly 2025
Client Sample ID: PRESS-SLUDGE
Lab Sample ID: Q3368-07

Date Collected: 10/16/25 13:04
Date Received: 10/16/25
SDG No.: Q3368
Matrix: SOIL
% Solid: 65.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	5.42	H	1	0	0	pH		10/21/25 12:49	9045D
Ignitability	NO		1	0	0	oC		10/21/25 10:24	1030
Oil and Grease	99900		1	8.91	38.3	mg/Kg		10/29/25 10:00	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/21/25 08:49	9095B
Reactive Cyanide	0.0084	U	1	0.0084	0.050	mg/Kg	10/21/25 08:45	10/21/25 12:39	9012B
Reactive Sulfide	4.73	J	1	0.20	10.0	mg/Kg	10/20/25 16:10	10/21/25 09:06	9034
TS	54.6	H	1	1.00	5.00	%		10/28/25 11:00	SM 2540 B-20
TVS	19.7	H	1	1.00	10.0	%		10/28/25 17:30	160.4

Comments: pH result reported at temperature 20.7 °C

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

Report of Analysis

Client: Aramark Uniforms
Project: Monthly 2025
Client Sample ID: OUTSIDE-DUMPSTER
Lab Sample ID: Q3368-13

Date Collected: 10/16/25 13:00
Date Received: 10/16/25
SDG No.: Q3368
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
ASTM Ammonia	0.28		1	0.030	0.10	mg/L	10/29/25 13:50	10/29/25 15:53	SM 4500-NH3 B plus NH3 G-11
ASTM COD	382	D	5	7.50	50.0	mg/L		10/30/25 14:02	SM 5220 D-11
ASTM Oil and Grease	0.40	J	1	0.29	5.00	mg/L		10/29/25 15:00	SW1664A
ASTM TS	509		1	1.00	5.00	mg/L		10/29/25 11:00	SM 2540 B-20
pH	7.62	H	1	0	0	pH		11/04/25 13:30	9045D

Comments: pH result reported at temperature 20.8 °C

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

Report of Analysis

Client: Aramark Uniforms
Project: Monthly 2025
Client Sample ID: PRESS-SLUDGE
Lab Sample ID: Q3368-14

Date Collected: 10/16/25 13:04
Date Received: 10/16/25
SDG No.: Q3368
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
ASTM Ammonia	0.090	J	1	0.030	0.10	mg/L	10/29/25 13:50	10/29/25 16:01	SM 4500-NH3 B plus NH3 G-11
ASTM COD	448	D	5	7.50	50.0	mg/L		10/30/25 14:04	SM 5220 D-11
ASTM Oil and Grease	0.60	J	1	0.29	5.00	mg/L		10/29/25 15:00	SW1664A
ASTM TS	342		1	1.00	5.00	mg/L		10/29/25 11:00	SM 2540 B-20
pH	8.01	H	1	0	0	pH		11/04/25 13:37	9045D

Comments: pH result reported at temperature 20.1 °C

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

Initial and Continuing Calibration Verification

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

RunNo.: LB137602

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Reactive Cyanide	mg/L	0.093	0.099	94	85-115	10/21/2025
Sample ID: CCV1 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	10/21/2025
Sample ID: CCV2 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	10/21/2025
Sample ID: CCV3 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	10/21/2025
Sample ID: CCV4 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	10/21/2025

Initial and Continuing Calibration Verification

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

RunNo.: LB137603

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	pH	6.98	7	100	90-110	10/21/2025
Sample ID: Corrosivity	CCV1	pH	2.01	2.00	101	90-110	10/21/2025
Sample ID: Corrosivity	CCV2	pH	12.02	12.00	100	90-110	10/21/2025
Sample ID: Corrosivity	CCV3	pH	2.01	2.00	101	90-110	10/21/2025

Initial and Continuing Calibration Verification

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

RunNo.: LB137698

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
ASTM Ammonia		mg/L	0.98	1	98	90-110	10/29/2025
Sample ID:	CCV1						
ASTM Ammonia		mg/L	0.96	1	96	90-110	10/29/2025
Sample ID:	CCV2						
ASTM Ammonia		mg/L	1	1	100	90-110	10/29/2025

Initial and Continuing Calibration Verification

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

RunNo.: LB137721

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
ASTM COD		mg/L	50.173	50	100	95-105	09/08/2025
Sample ID:	CCV1						
ASTM COD		mg/L	48.150	50	96	95-105	10/30/2025
Sample ID:	CCV2						
ASTM COD		mg/L	50.173	50	100	95-105	10/30/2025

Initial and Continuing Calibration Verification

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

RunNo.: LB137757

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.01	7	100	90-110	11/04/2025
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	11/04/2025
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	11/04/2025

Initial and Continuing Calibration Blank Summary

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

RunNo.: LB137602

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/21/2025
Sample ID: CCB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/21/2025
Sample ID: CCB2 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/21/2025
Sample ID: CCB3 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/21/2025
Sample ID: CCB4 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/21/2025

Initial and Continuing Calibration Blank Summary

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

RunNo.: LB137698

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	10/29/2025
Sample ID: CCB1 ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.030	0.1	10/29/2025
Sample ID: CCB2 ASTM Ammonia	mg/L	0.034	0.0500	J	0.030	0.1	10/29/2025

Initial and Continuing Calibration Blank Summary

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

RunNo.: LB137721

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB ASTM COD	mg/L	< 5.0000	5.0000	U	1.50	10	09/08/2025
Sample ID: CCB1 ASTM COD	mg/L	< 5.0000	5.0000	U	1.50	10	10/30/2025
Sample ID: CCB2 ASTM COD	mg/L	< 5.0000	5.0000	U	1.50	10	10/30/2025

Preparation Blank Summary

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137683BL TS	%	< 2.5000	2.5000	U	1	5	10/28/2025
Sample ID: LB137684BL TVS	%	< 5.0000	5.0000	U	1	10	10/28/2025
Sample ID: LB137692BL Oil and Grease	mg/Kg	< 12.5000	12.5000	U	5.8	25	10/29/2025
Sample ID: LB137694BL ASTM TS	mg/L	1	2.5000	J	1	5	10/29/2025
Sample ID: LB137695BL ASTM Oil and Grease	mg/L	< 2.5000	2.5000	U	0.29	5.0	10/29/2025
Sample ID: LB137721BL ASTM COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	10/30/2025
Sample ID: PB170153BL Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	10/21/2025
Sample ID: PB170174BL Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	10/21/2025
Sample ID: PB170314BL ASTM Ammonia	mg/L	< 0.0500	0.0500	U	0.03	0.1	10/29/2025
Sample ID: PB170314TB ASTM Ammonia	mg/L	0.038	0.0500	J	0.03	0.1	10/29/2025

Matrix Spike Summary

Client:	Aramark Uniforms	SDG No.:	Q3368
Project:	Monthly 2025	Sample ID:	Q3368-06
Client ID:	OUTSIDE-DUMPSTERMS	Percent Solids for Spike Sample:	67.4

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/Kg	75-125	93300		89200		148	1	2760	*	10/29/2025

Matrix Spike Summary

Client:	Aramark Uniforms	SDG No.:	Q3368
Project:	Monthly 2025	Sample ID:	Q3368-06
Client ID:	OUTSIDE-DUMPSTERMSD	Percent Solids for Spike Sample:	67.4

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/Kg	75-125	92700		89200		148	1	2330	*	10/29/2025

Matrix Spike Summary

Client:	Aramark Uniforms	SDG No.:	Q3368
Project:	Monthly 2025	Sample ID:	Q3368-13
Client ID:	OUTSIDE-DUMPSTERMS	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
ASTM COD	mg/L	75-125	428		382	D	50.0	5	92		10/30/2025
ASTM Ammonia	mg/L	75-125	1.30		0.28		1	1	102		10/29/2025

Matrix Spike Summary

Client:	Aramark Uniforms	SDG No.:	Q3368
Project:	Monthly 2025	Sample ID:	Q3368-13
Client ID:	OUTSIDE-DUMPSTERMSD	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
ASTM COD	mg/L	75-125	433		382	D	50.0	5	102		10/30/2025
ASTM Ammonia	mg/L	75-125	1.30		0.28		1	1	102		10/29/2025

Matrix Spike Summary

Client:	Aramark Uniforms	SDG No.:	Q3368
Project:	Monthly 2025	Sample ID:	Q3368-14
Client ID:	PRESS-SLUDGEMS	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
ASTM Oil and Grease	mg/L	78-114	20.7		0.60	J	20.0	1	101		10/29/2025

Matrix Spike Summary

Client:	Aramark Uniforms	SDG No.:	Q3368
Project:	Monthly 2025	Sample ID:	Q3368-14
Client ID:	PRESS-SLUDGEMSD	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
ASTM Oil and Grease	mg/L	78-114	20.8		0.60	J	20.0	1	101		10/29/2025

Duplicate Sample Summary

Client: Aramark Uniforms	SDG No.: Q3368
Project: Monthly 2025	Sample ID: Q3368-06
Client ID: OUTSIDE-DUMPSTERDUP	Percent Solids for Spike Sample: 67.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		10/21/2025
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		10/21/2025
Reactive Cyanide	mg/Kg	+/-20	0.0083	U	0.0083	U	1	0		10/21/2025
Corrosivity	pH	+/-20	7.00		7.02		1	0.29		10/21/2025
Oil and Grease	mg/Kg	+/-20	89200		91400		1	2.44		10/29/2025

Duplicate Sample Summary

Client: Aramark Uniforms	SDG No.: Q3368
Project: Monthly 2025	Sample ID: Q3368-06
Client ID: OUTSIDE-DUMPSTERMSD	Percent Solids for Spike Sample: 67.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	93300		92700		1	0.69		10/29/2025

Duplicate Sample Summary

Client: Aramark Uniforms Project: Monthly 2025 Client ID: PRESS-SLUDGEDUP	SDG No.: Q3368 Sample ID: Q3368-07 Percent Solids for Spike Sample: 65.1
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TS	%	+/-5	54.6		53.9		1	1.29		10/28/2025
TVS	%	+/-5	19.7		19.4		1	1.53		10/28/2025

Duplicate Sample Summary

Client: Aramark Uniforms	SDG No.: Q3368
Project: Monthly 2025	Sample ID: Q3368-13
Client ID: OUTSIDE-DUMPSTERDUP	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
ASTM Ammonia	mg/L	+/-20	0.28		0.28		1	0		10/29/2025
ASTM COD	mg/L	+/-20	382	D	377		5	1.32		10/30/2025

Duplicate Sample Summary

Client:	Aramark Uniforms	SDG No.:	Q3368
Project:	Monthly 2025	Sample ID:	Q3368-13
Client ID:	OUTSIDE-DUMPSTERMSD	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
ASTM Ammonia	mg/L	+/-20	1.30		1.30		1	0		10/29/2025
ASTM COD	mg/L	+/-20	428		433		5	1.16		10/30/2025

Duplicate Sample Summary

Client: Aramark Uniforms	SDG No.: Q3368
Project: Monthly 2025	Sample ID: Q3368-14
Client ID: PRESS-SLUDGEDUP	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
ASTM TS	mg/L	+/-5	342		344		1	0.58		10/29/2025
ASTM Oil and Grease	mg/L	+/-18	0.60	J	0.60	J	1	0		10/29/2025
pH	pH	+/-20	8.01		8.02		1	0.12		11/04/2025

Duplicate Sample Summary

Client:	Aramark Uniforms	SDG No.:	Q3368
Project:	Monthly 2025	Sample ID:	Q3368-14
Client ID:	PRESS-SLUDGEMSD	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
ASTM Oil and Grease	mg/L	+/-18	20.7		20.8		1	0.48		10/29/2025

Duplicate Sample Summary

Client: Aramark Uniforms	SDG No.: Q3368
Project: Monthly 2025	Sample ID: Q3403-04
Client ID: MH-18DUP	Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		10/21/2025
Reactive Sulfide	mg/Kg	+/-20	1.58	J	1.58	J	1	0		10/21/2025

Laboratory Control Sample Summary

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

Run No.: LB137692

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137692BS							
Oil and Grease	mg/Kg	100	94.9		95	1	80-120	10/29/2025

Laboratory Control Sample Summary

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

Run No.: LB137695

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137695BS							
ASTM Oil and Grease	mg/L	20.0	16.7		84	1	78-114	10/29/2025

Laboratory Control Sample Summary

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

Run No.: LB137721

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137721BS							
ASTM COD	mg/L	50	51.2		102	1	90-110	10/30/2025

Laboratory Control Sample Summary

Client: Aramark Uniforms

SDG No.: Q3368

Project: Monthly 2025

Run No.: LB137698

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170314BS							
ASTM Ammonia	mg/L	1	1.00		100	1	90-110	10/29/2025



RAW DATA

Analytical Summary Report

Analysis Method: 1030
Parameter: Ignitability
Run Number: LB137594

Reviewed By: Eman
Supervisor Review By: Iwona

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q3368-06	OUTSIDE-DUMPSTER	1	Solid	NO	0.00	10/21/2025	10:10
2	Q3368-06DUP	OUTSIDE-DUMPSTERDUP	1	Solid	NO	0.00	10/21/2025	10:17
3	Q3368-07	PRESS-SLUDGE	1	Solid	NO	0.00	10/21/2025	10:24
4	Q3374-01	TP-4-WC	1	Solid	NO	0.00	10/21/2025	10:32
5	Q3374-04	TP-4-WC	1	Solid	NO	0.00	10/21/2025	10:40
6	Q3374-05	TP-5-WC	1	Solid	NO	0.00	10/21/2025	10:47
7	Q3374-08	TP-5-WC	1	Solid	NO	0.00	10/21/2025	10:55
8	Q3392-01	MH-20	1	Solid	NO	0.00	10/21/2025	11:02
9	Q3392-04	MH-20	1	Solid	NO	0.00	10/21/2025	11:10
10	Q3392-05	MH-19	1	Solid	NO	0.00	10/21/2025	11:17
11	Q3392-08	MH-19	1	Solid	NO	0.00	10/21/2025	11:25
12	Q3397-01	TP-7-WC	1	Solid	NO	0.00	10/21/2025	11:32
13	Q3397-04	TP-7-WC	1	Solid	NO	0.00	10/21/2025	11:40
14	Q3402-01	41-LA	1	Solid	NO	0.00	10/21/2025	11:47
15	Q3402-03	41-LA	1	Solid	NO	0.00	10/21/2025	11:55
16	Q3402-04	41-RA	1	Solid	NO	0.00	10/21/2025	12:02
17	Q3402-06	41-RA	1	Solid	NO	0.00	10/21/2025	12:10
18	Q3402-07	41-LB	1	Solid	NO	0.00	10/21/2025	12:17
19	Q3402-09	41-LB	1	Solid	NO	0.00	10/21/2025	12:25
20	Q3402-10	41-RB	1	Solid	NO	0.00	10/21/2025	12:32
21	Q3402-12	41-RB	1	Solid	NO	0.00	10/21/2025	12:40
22	Q3403-01	MH-18	1	Solid	NO	0.00	10/21/2025	12:47
23	Q3403-04	MH-18	1	Solid	NO	0.00	10/21/2025	12:55
24	Q3403-04DUP	MH-18DUP	1	Solid	NO	0.00	10/21/2025	13:03

$$\text{Burning Rate} = \frac{\text{Length (mm)}}{\text{Total Time (sec)}}$$

Analytical Summary Report

Analysis Method: 9095B
Parameter: Paint Filter
Run Number: LB137595

Reviewed By: Eman
Supervisor Review By: Iwona
BalanceID: WC SC-7

Seq	LabID	ClientID	Dilution	Weight (g)	Inst. Conc (ml/100g)	Anal Date	Anal Time
1	Q3368-06	OUTSIDE-DUMPSTER	1	100.02	0.00	10/21/2025	08:35
2	Q3368-06DUP	OUTSIDE-DUMPSTERDUP	1	100.05	0.00	10/21/2025	08:42
3	Q3368-07	PRESS-SLUDGE	1	100.01	0.00	10/21/2025	08:49
4	Q3374-01	TP-4-WC	1	100.03	0.00	10/21/2025	08:57
5	Q3374-05	TP-5-WC	1	100.06	0.00	10/21/2025	09:05
6	Q3392-01	MH-20	1	100.01	0.00	10/21/2025	09:12
7	Q3392-05	MH-19	1	100.04	0.00	10/21/2025	09:20
8	Q3397-01	TP-7-WC	1	100.03	0.00	10/21/2025	09:27
9	Q3402-01	41-LA	1	100.05	0.00	10/21/2025	09:35
10	Q3402-04	41-RA	1	100.02	0.00	10/21/2025	09:42
11	Q3402-07	41-LB	1	100.02	0.00	10/21/2025	09:50
12	Q3402-10	41-RB	1	100.06	0.00	10/21/2025	09:57
13	Q3403-01	MH-18	1	100.01	0.00	10/21/2025	10:05

Analysis Method: 9034

ANALYST: rubina

Parameter: Reactive Sulfide

SUPERVISOR REVIEW BY: Iwona

Run Number: LB137596

Constant: 16000

Normality1: 0.025

Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE, 0.025N, 4LITRE	W3248
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB170153BL		1	5.00	50	2.00	0.00	1.92	1.92	0.08	0.00	0.00	10/21/2025	09:00
2	Q3368-06		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	10/21/2025	09:03
3	Q3368-07		1	5.07	50	2.00	0.00	1.86	1.86	0.14	0.06	4.73	10/21/2025	09:06
4	Q3369-04		1	5.07	50	2.00	0.00	1.88	1.88	0.12	0.04	3.16	10/21/2025	09:08
5	Q3369-08		1	5.03	50	2.00	0.00	1.86	1.86	0.14	0.06	4.77	10/21/2025	09:10
6	Q3374-04		1	5.03	50	2.00	0.00	1.90	1.90	0.10	0.02	1.59	10/21/2025	09:13
7	Q3374-08		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	10/21/2025	09:15
8	Q3381-02		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	10/21/2025	09:17
9	Q3381-04		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	10/21/2025	09:19
10	Q3381-06		1	5.05	50	2.00	0.00	1.86	1.86	0.14	0.06	4.75	10/21/2025	09:22
11	Q3381-08		1	5.03	50	2.00	0.00	1.90	1.90	0.10	0.02	1.59	10/21/2025	09:25
12	Q3388-02		1	5.01	50	2.00	0.00	1.90	1.90	0.10	0.02	1.60	10/21/2025	09:27

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

Analysis Method: 9034

Parameter: Reactive Sulfide

Run Number: LB137596

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

Constant: 16000

Normality1: 0.025

Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE, 0.025N, 4LITRE	W3248
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
13	Q3390-02		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	10/21/2025	09:30
14	Q3397-04		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	10/21/2025	09:33
15	Q3402-03		1	5.06	50	2.00	0.00	1.86	1.86	0.14	0.06	4.74	10/21/2025	09:36
16	Q3402-06		1	5.05	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	10/21/2025	09:39
17	Q3402-09		1	5.01	50	2.00	0.00	1.90	1.90	0.10	0.02	1.60	10/21/2025	09:41
18	Q3402-12		1	5.06	50	2.00	0.00	1.86	1.86	0.14	0.06	4.74	10/21/2025	09:44
19	Q3403-04		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	10/21/2025	09:46
20	Q3403-04DUP		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	10/21/2025	09:48

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

Lb137602

Test results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092Reviewed by : RM

Instrument ID : Konelab

10/21/2025 14:42

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	93.270	0.0	0.081	
ICB1	0.108	0.0	0.001	
CCV1	242.582	0.0	0.210	
CCB1	0.428	0.0	0.001	
PB170152BL	0.419	0.0	0.001	
Q3369-04	0.211	0.0	0.001	
Q3369-04DUP	0.212	0.0	0.001	
Q3369-08	0.252	0.0	0.001	
Q3374-04	0.317	0.0	0.001	
Q3374-08	0.209	0.0	0.001	
Q3381-02	0.306	0.0	0.001	
Q3381-04	0.317	0.0	0.001	
Q3381-06	0.159	0.0	0.001	
Q3381-08	0.553	0.0	0.001	
CCV2	239.222	0.0	0.207	
CCB2	0.299	0.0	0.001	
Q3388-02	0.274	0.0	0.001	
Q3392-04	0.387	0.0	0.001	
Q3392-08	0.221	0.0	0.001	
Q3390-02	0.173	0.0	0.001	
PB170174BL	0.184	0.0	0.001	
Q3368-07	0.806	0.0	0.001	
Q3397-04	0.098	0.0	0.001	
Q3368-06	0.229	0.0	0.001	
Q3368-06DUP	0.254	0.0	0.001	
Q3399-02	0.516	0.0	0.001	
CCV3	238.678	0.0	0.207	
CCB3	0.112	0.0	0.001	
Q3402-03	0.378	0.0	0.001	
Q3402-06	0.465	0.0	0.001	
Q3402-09	0.351	0.0	0.001	
Q3402-12	0.478	0.0	0.001	
Q3403-04	0.336	0.0	0.001	
Q3404-02	0.555	0.0	0.001	
Q3404-06	0.107	0.0	0.001	
Q3406-02	0.076	0.0	0.000	
Q3412-04	0.046	0.0	0.000	
CCV4	248.210	0.0	0.215	
CCB4	0.229	0.0	0.001	
N	39			
Mean	27.488			
SD	75.0234			
CV%	272.93			

Aquakem v. 7.2AQ1

Results from time period:

Tue Oct 21 12:16:50 2025

Tue Oct 21 12:53:54 2025

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	0.1297	µg/l	10/21/2025 10:18:49	
5.0PPBCN	A	Total CN	P	5.0315	µg/l	10/21/2025 10:18:50	
10PPBCN	A	Total CN	P	10.2776	µg/l	10/21/2025 10:18:51	
50PPBCN	A	Total CN	P	49.3188	µg/l	10/21/2025 10:18:52	
100PPBCN	A	Total CN	P	99.598	µg/l	10/21/2025 10:18:53	
250PPBCN	A	Total CN	P	251.0035	µg/l	10/21/2025 10:18:54	
500PPBCN	A	Total CN	P	499.6409	µg/l	10/21/2025 10:18:55	
ICV1	S	Total CN	P	93.2701	µg/l	10/21/2025 12:16:51	
ICB1	S	Total CN	P	0.1085	µg/l	10/21/2025 12:16:52	
CCV1	S	Total CN	P	242.5818	µg/l	10/21/2025 12:16:54	
CCB1	S	Total CN	P	0.4275	µg/l	10/21/2025 12:16:57	
PB170152BL	S	Total CN	P	0.4188	µg/l	10/21/2025 12:16:58	
Q3369-04	S	Total CN	P	0.2113	µg/l	10/21/2025 12:24:25	
Q3369-04DUP	S	Total CN	P	0.2123	µg/l	10/21/2025 12:24:26	
Q3369-08	S	Total CN	P	0.252	µg/l	10/21/2025 12:24:28	
Q3374-04	S	Total CN	P	0.3167	µg/l	10/21/2025 12:24:29	
Q3374-08	S	Total CN	P	0.2089	µg/l	10/21/2025 12:24:30	
Q3381-02	S	Total CN	P	0.306	µg/l	10/21/2025 12:24:31	
Q3381-04	S	Total CN	P	0.3168	µg/l	10/21/2025 12:24:32	
Q3381-06	S	Total CN	P	0.1594	µg/l	10/21/2025 12:24:33	
Q3381-08	S	Total CN	P	0.5531	µg/l	10/21/2025 12:24:34	
CCV2	S	Total CN	P	239.2216	µg/l	10/21/2025 12:32:03	
CCB2	S	Total CN	P	0.2993	µg/l	10/21/2025 12:32:05	
Q3388-02	S	Total CN	P	0.2745	µg/l	10/21/2025 12:32:06	
Q3392-04	S	Total CN	P	0.3874	µg/l	10/21/2025 12:32:07	
Q3392-08	S	Total CN	P	0.2215	µg/l	10/21/2025 12:32:08	
Q3390-02	S	Total CN	P	0.1731	µg/l	10/21/2025 12:32:09	
PB170174BL	S	Total CN	P	0.1835	µg/l	10/21/2025 12:32:10	
Q3368-07	S	Total CN	P	0.8059	µg/l	10/21/2025 12:39:37	
Q3397-04	S	Total CN	P	0.0978	µg/l	10/21/2025 12:39:39	
Q3368-06	S	Total CN	P	0.2288	µg/l	10/21/2025 12:39:41	
Q3368-06DUP	S	Total CN	P	0.2539	µg/l	10/21/2025 12:39:42	
Q3399-02	S	Total CN	P	0.5156	µg/l	10/21/2025 12:39:43	
CCV3	S	Total CN	P	238.6779	µg/l	10/21/2025 12:39:45	
CCB3	S	Total CN	P	0.1122	µg/l	10/21/2025 12:47:09	
Q3402-03	S	Total CN	P	0.3777	µg/l	10/21/2025 12:47:11	
Q3402-06	S	Total CN	P	0.4646	µg/l	10/21/2025 12:47:12	
Q3402-09	S	Total CN	P	0.3514	µg/l	10/21/2025 12:47:13	
Q3402-12	S	Total CN	P	0.4784	µg/l	10/21/2025 12:47:14	

Q3403-04	S	Total CN	P	0.3364 µg/l	10/21/2025 12:47:15
Q3404-02	S	Total CN	P	0.5547 µg/l	10/21/2025 12:47:16
Q3404-06	S	Total CN	P	0.1068 µg/l	10/21/2025 12:47:17
Q3406-02	S	Total CN	P	0.0763 µg/l	10/21/2025 12:53:46
Q3412-04	S	Total CN	P	0.0461 µg/l	10/21/2025 12:53:47
CCV4	S	Total CN	P	248.2096 µg/l	10/21/2025 12:53:52
CCB4	S	Total CN	P	0.2295 µg/l	10/21/2025 12:53:54

=====

Calibration results Aquakem 7.2AQ1 Page: 1

 Alliance Technical Group
 284 Sheffield Street, Mountainside, NJ 07092

 Reviewed by : RM Instrument ID : Konelab

10/21/2025 10:21

Test Total CN

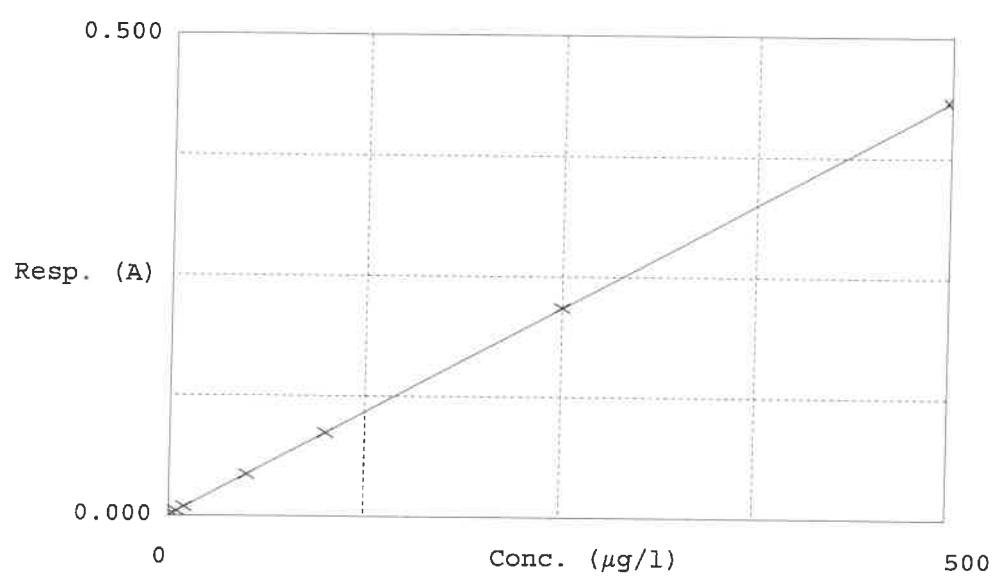
Accepted 10/21/2025 10:21

Factor 1156

Bias 0

Coeff. of det. 0.999991

Errors



	Calibrator	Response	Calc. con.	Conc.	Re Errors
1	0.0PPBCN	0.001	0.1297	0.0000	-
2	5.0PPBCN	0.005	5.0315	5.0000	0.6
3	10PPBCN	0.009	10.2776	10.0000	2.8
4	50PPBCN	0.043	49.3188	50.0000	-1.4
5	100PPBCN	0.087	99.5980	100.0000	-0.4
6	250PPBCN	0.218	251.0035	250.0000	0.4
7	500PPBCN	0.433	499.6409	500.0000	-0.1

10/21/2025
 RM

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: Corrosivity

Supervisor Review By : Iwona

Run Number: LB137603

Slope : 98.6

BalanceID: WC SC-7

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/- 0.05].

True Value of CCV3 = 2.00 Control Limits[+/- 0.05].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	10/21/2025	12:30
2	CAL2	1	Water	NA	NA	20.2	7.01	10/21/2025	12:31
3	CAL3	1	Water	NA	NA	20.3	10.02	10/21/2025	12:33
4	ICV	1	Water	NA	NA	20.2	6.98	10/21/2025	12:35
5	CCV1	1	Water	NA	NA	20.3	2.01	10/21/2025	12:36
6	Q3368-06	1	Solid	20.02	20	20.7	7.00	10/21/2025	12:44
7	Q3368-06DUP	1	Solid	20.03	20	20.9	7.02	10/21/2025	12:46
8	Q3368-07	1	Solid	20.02	20	20.7	5.42	10/21/2025	12:49
9	Q3397-04	1	Solid	20.03	20	20.4	7.72	10/21/2025	12:50
10	Q3399-02	1	Solid	20.01	20	20.1	6.99	10/21/2025	13:00
11	Q3402-03	1	Solid	20.03	20	20.1	7.69	10/21/2025	13:02
12	Q3402-06	1	Solid	20.04	20	20.2	7.30	10/21/2025	13:05
13	Q3402-09	1	Solid	20.05	20	20.1	7.27	10/21/2025	13:10
14	Q3402-12	1	Solid	20.03	20	20.1	7.25	10/21/2025	13:15
15	Q3403-04	1	Solid	20.02	20	20.3	5.56	10/21/2025	13:20
16	CCV2	1	Water	NA	NA	20.3	12.02	10/21/2025	13:25
17	Q3404-02	1	Solid	20.03	20	20.1	6.02	10/21/2025	13:30
18	Q3404-06	1	Solid	20.04	20	20.1	5.69	10/21/2025	13:35
19	Q3406-02	1	Solid	20.03	20	20.1	5.96	10/21/2025	13:44
20	Q3412-04	1	Solid	20.02	20	20.3	8.76	10/21/2025	13:50

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	An
21	CCV3	1	Water	NA	NA	20.3	2.01	10/21/2025	14:00

WORKLIST(Hardcopy Internal Chain)

10/21/25

WorkList Name : corrosivity q3406 WorkList ID : 192578 Department : Wet-Chemistry Date : 10-21-2025 09:35:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-06	OUTSIDE-DUMPSTER	Solid	Corrosivity	Cool 4 deg C	ARAM01	D41	10/16/2025	9045D
Q3368-07	PRESS-SLUDGE	Solid	Corrosivity	Cool 4 deg C	ARAM01	D41	10/16/2025	9045D
Q3397-04	TP-7-WC	Solid	Corrosivity	Cool 4 deg C	PSEG03	D31	10/18/2025	9045D
Q3399-02	COMP-ROLLOFF	Solid	Corrosivity	Cool 4 deg C	ICES02	D41	10/20/2025	9045D
Q3402-03	41-LA	Solid	Corrosivity	Cool 4 deg C	PSEG03	D31	10/20/2025	9045D
Q3402-06	41-RA	Solid	Corrosivity	Cool 4 deg C	PSEG03	D31	10/20/2025	9045D
Q3402-09	41-LB	Solid	Corrosivity	Cool 4 deg C	PSEG03	D31	10/20/2025	9045D
Q3402-12	41-RB	Solid	Corrosivity	Cool 4 deg C	PSEG03	D31	10/20/2025	9045D
Q3403-04	MH-18	Solid	Corrosivity	Cool 4 deg C	PSEG03	D31	10/20/2025	9045D
Q3404-02	MOO-25-0285-0288	Solid	Corrosivity	Cool 4 deg C	PSEG03	D41	10/20/2025	9045D
Q3404-06	MOO-25-0292	Solid	Corrosivity	Cool 4 deg C	PSEG03	D41	10/20/2025	9045D
Q3406-02	ARS20-0037	Solid	Corrosivity	Cool 4 deg C	PSEG03	D41	10/20/2025	9045D
Q3412-04	TP-6	Solid	Corrosivity	Cool 4 deg C	PSEG03	D31	10/20/2025	9045D

10/21/25 12:00

Date/Time
Raw Sample Received by: SS Green
Raw Sample Relinquished by: CP 8

Date/Time
Raw Sample Received by: 10/21/25 CP 8
Raw Sample Relinquished by: SS Green

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 10/28/2025

Run Number: LB137683

BalanceID: WC SC-5

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 10/28/2025 11:00 **TEMP1 OUT:** 103 °C 10/28/2025 12:00
TEMP2 IN: 104 °C 10/28/2025 12:30 **TEMP2 OUT:** 104 °C 10/28/2025 13:30
TEMP3 IN: 103 °C 10/28/2025 17:30 **TEMP3 OUT:** 103 °C 10/29/2025 08:00
TEMP4 IN: 104 °C 10/29/2025 08:30 **TEMP4 OUT:** 103 °C 10/29/2025 10:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Dish + Sample Weight (g)	Original weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)	Weight (g)	Result %
1	LB137683BL	LB137683BL	85.9631	85.9631	85.9631	85.9631	85.9631	85.9631	0.0000	0
2	Q3368-06	OUTSIDE-DUMPSTER	78.3769	78.3769	101.5848	93.4769	93.4769	93.4769	15.1000	65.1
3	Q3368-07	PRESS-SLUDGE	82.3349	82.3349	111.0312	98.0109	98.0109	98.0109	15.6760	54.6
4	Q3368-07DUP	PRESS-SLUDGEDUP	53.5569	53.5569	91.1603	73.8199	73.8199	73.8199	20.2630	53.9

A = Final Empty Dish Weight (g)

B = Dish + Sample Weight (g)

C = Final Dish+Sample weight after Drying @103-@105°C (g)

$$\text{Result \%} = (C - A) * 100 / (B - A)$$

WORKLIST(Hardcopy Internal Chain)

1737683

WorkList Name : ts q3368 WorkList ID : 192742 Department : Wet-Chemistry Date : 10-28-2025 16:12:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-06	OUTSIDE-DUMPSTER	Solid	TS	Cool 4 deg C	ARAM01	D41	10/16/2025	SM2540 B
Q3368-07	PRESS-SLUDGE	Solid	TS	Cool 4 deg C	ARAM01	D41	10/16/2025	SM2540 B

Date/Time 10/28/25 16:25
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 10/28/25 18:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

TOTAL VOLATILE SOLIDS 160.4

TEMP1 IN: 103 °C 10/28/2025 17:30 **TEMP1 OUT:** 103 °C 10/29/2025 08:00
TEMP2 IN: 104 °C 10/29/2025 08:30 **TEMP2 OUT:** 103 °C 10/29/2025 10:00
TEMP3 IN: 550 °C 10/29/2025 10:30 **TEMP3 OUT:** 550 °C 10/29/2025 11:30
TEMP4 IN: 540 °C 10/29/2025 12:00 **TEMP4 OUT:** 540 °C 10/29/2025 13:30

Run Number: LB137684

SUPERVISOR: Iwona

ANALYST: jignesh

BalanceID: WC SC-5

OvenID: WC OVEN-1

Dish #	Lab ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Empty Dish + Sample Weight (g)	1st Dish + SampleWt Drying @103-@105°C (g)	Final Dish + SampleWt Drying @103-@105°C (g)	Dish + Samplewt Drying @550 (±50) °C (g)	Final Dish + Samplewt Drying @550 (±50) °C (g)	Weight Diff (g)	Result (%)
1	LB137684BL	85.9631	85.9631	85.9631	85.9631	85.9631	85.9631	85.9631	0.0000	0
2	Q3368-06	78.3769	78.3769	101.5848	93.4769	93.4769	87.1710	87.1710	6.3059	41.8
3	Q3368-07	82.3349	82.3349	111.0312	98.0109	98.0109	94.9267	94.9267	3.0842	19.7
4	Q3368-07DUP	53.5569	53.5569	91.1603	91.1603	91.1603	83.8817	83.8817	7.2786	19.4

A = Sample Weight (g)
B = Final Dish + Samplewt Drying @550 (±50) °C (g)
C = Final Dish + SampleWt Drying @103-@105 °C (g)
D = Weight (g)
E = Final Empty Dish Weight (g)
F = Final Dish + SampleWt Drying @103-@105 °C (g)

Weight D = C - B

Result % = $\frac{D}{F - E} \star 100$

WORKLIST(Hardcopy Internal Chain)

10/28/25

WorkList Name : tvs q3368 WorkList ID : 192743 Department : Wet-Chemistry Date : 10-28-2025 16:17:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-06	OUTSIDE-DUMPSTER	Solid	TVS	Cool 4 deg C	ARAM01	D41	10/16/2025	160.4
Q3368-07	PRESS-SLUDGE	Solid	TVS	Cool 4 deg C	ARAM01	D41	10/16/2025	160.4

Date/Time 10/28/25 16:25
Raw Sample Received by: SR CWC
Raw Sample Relinquished by: SR CWC

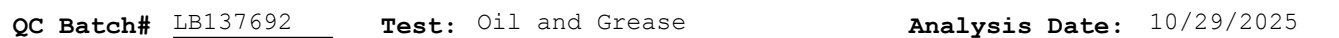
Date/Time 10/28/25 18:00
Raw Sample Received by: RS CWC
Raw Sample Relinquished by: RS CWC

Extraction and Analytical Summary Report

Analysis Method: 9071B
Test: Oil and Grease
Run Number: LB137692
Analysis Date: 10/29/2025
BalanceID: WC SC-5
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 10/29/2025
Extraction IN Time: 08:45
Extraction OUT Time: 09:20
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Weight (g)	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	LB137692BL	LB137692BL	SOLID		20.02	100	3.0652	3.0652	0	3.0653	3.0653	0.0001	5
2	LB137692BS	LB137692BS	SOLID		20.03	100	3.0184	3.0184	0	3.0203	3.0203	0.0019	94.86
3	Q3368-06	OUTSIDE-DUMPSTER	SOLID		20.04	100	3.0771	3.0771	0	4.2821	4.2821	1.2050	60129.7
4	Q3368-06DUP	OUTSIDE-DUMPSTERDUP	SOLID		20.03	100	3.0805	3.0805	0	4.3147	4.3147	1.2342	61617.6
5	Q3368-06MS	OUTSIDE-DUMPSTER	SOLID		20.02	100	3.0295	3.0295	0	4.2884	4.2884	1.2589	62882.1
6	Q3368-06MSD	OUTSIDE-DUMPSTER	SOLID		20.03	100	3.0765	3.0765	0	4.3274	4.3274	1.2509	62451.3
7	Q3368-07	PRESS-SLUDGE	SOLID		20.04	100	3.0402	3.0402	0	4.3439	4.3439	1.3037	65054.9



Chemical Name	Chemical Lot #
HEXANE	W3240
pH Paper 0-14	NA
Sodium Sulfate	EP2655
1:1 HCL	N/A
Silica Gel	N/A
Sand	W3186

Standard Name	Amount Used	Standard Lot #
LCSS	1.00 ML	WP115020
LCSSD	N/A	N/A
MS/MSD	1.00 ML	WP115021

Analytical Balance ID # : WC SC-6

0.0020 gram Balance:	<u>0.0018</u>	(0.0018-0.0022)	In OVEN TEMP1 :	<u>70 °C</u>	Dessicator Time In1 :	<u>10:46</u>
1.0000 gram Balance:	<u>1.0004</u>	(0.9950-1.0050)	In Time1:	<u>10:00</u>		
Bal Check Time:	<u>09:00</u>		Out OVEN TEMP1:	<u>70 °C</u>	Dessicator Time Out1:	<u>11:00</u>
			Out Time1:	<u>10:45</u>		

0.0020 gram Balance:	<u>0.0019</u>	(0.0018-0.0022)	In OVEN TEMP2 :	<u>71 °C</u>	Dessicator Time In2 :	<u>12:02</u>
1.0000 gram Balance:	<u>1.0005</u>	(0.9950-1.0050)	In Time2:	<u>11:30</u>		
Bal Check Time:	<u>12:40</u>		Out OVEN TEMP2:	<u>71 °C</u>	Dessicator Time Out2:	<u>12:37</u>
			Out Time2:	<u>12:00</u>		

10/13/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : OIL & GREASE Q3638 WorkList ID : 192746 Department : Wet-Chemistry Date : 10-29-2025 08:21:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-06	OUTSIDE-DUMPSTER	Solid	Oil and Grease	Cool 4 deg C	ARAM01	D41	10/16/2025	9071B
Q3368-07	PRESS-SLUDGE	Solid	Oil and Grease	Cool 4 deg C	ARAM01	D41	10/16/2025	9071B

Date/Time 10/29/25 08:30
Raw Sample Received by: JH WWC
Raw Sample Relinquished by: CACSON

Date/Time 10/29/25 13:30
Raw Sample Received by: JH WWC
Raw Sample Relinquished by: CACSON

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 10/29/2025

Run Number: LB137694

BalanceID: WC SC-5

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 10/29/2025 11:00 TEMP1 OUT: 103 °C 10/29/2025 12:00
 TEMP2 IN: 104 °C 10/29/2025 12:30 TEMP2 OUT: 103 °C 10/29/2025 13:30
 TEMP3 IN: 104 °C 10/29/2025 17:00 TEMP3 OUT: 103 °C 10/30/2025 07:30
 TEMP4 IN: 104 °C 10/30/2025 08:00 TEMP4 OUT: 103 °C 10/30/2025 09:30

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Vol (ml)	Original weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)	Weight (g)	Result (mg/L)
1	LB137694BL	LB137694BL	147.5631	147.5631	100	147.5632	147.5632	147.5632	0.0001	1
2	Q3368-13	OUTSIDE-DUMPSTER	157.5064	157.5064	100	157.5573	157.5573	157.5573	0.0509	509
3	Q3368-14	PRESS-SLUDGE	152.9528	152.9528	100	152.9870	152.9870	152.9870	0.0342	342
4	Q3368-14DUP	PRESS-SLUDGEDUP	143.5757	143.5757	100	143.6101	143.6101	143.6101	0.0344	344

A = Sample Volume (ml)

B = Final Empty Dish Weight (g)

C = Final Dish+Sample weight after Drying @103-@105°C (g)

$$\text{Result mg/L} = ((C - B) / A) * 1000 * 1000$$

WB B766H

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ASTM TS Q3368 WorkList ID : 192760 Department : Wet-Chemistry Date : 10-29-2025 13:01:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-13	OUTSIDE-DUMPSTER	Solid	ASTM TS	Cool 4 deg C	ARAM01	D41	10/16/2025	SM2540 B
Q3368-14	PRESS-SLUDGE	Solid	ASTM TS	Cool 4 deg C	ARAM01	D41	10/16/2025	SM2540 B

Date/Time 10/29/25 13:20
Raw Sample Received by: JH WCJ
Raw Sample Relinquished by: JH WCJ

Date/Time 10/29/25 17:30
Raw Sample Received by: JH WCJ
Raw Sample Relinquished by: JH WCJ

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: ASTM Oil and Grease
Run Number: LB137695
Analysis Date: 10/29/2025
BalanceID: WC SC-5
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 10/29/2025
Extraction IN Time: 13:30
Extraction OUT Time: 14:15
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Weight (g)	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	LB137695BL	LB137695BL	WATER	1.3	1000	100	2.8563	2.8563	0	2.8564	2.8564	0.0001	0.1
2	LB137695BS	LB137695BS	WATER	1.3	1000	100	3.0177	3.0177	0	3.0344	3.0344	0.0167	16.7
3	Q3368-13	OUTSIDE-DUMPSTER	WATER	1.6	1000	100	2.8503	2.8503	0	2.8507	2.8507	0.0004	0.4
4	Q3368-14	PRESS-SLUDGE	WATER	1.6	1000	100	2.7456	2.7456	0	2.7462	2.7462	0.0006	0.6
5	Q3368-14DUP	PRESS-SLUDGEDUP	WATER	1.6	1000	100	3.1905	3.1905	0	3.1911	3.1911	0.0006	0.6
6	Q3368-14MS	PRESS-SLUDGE	WATER	1.6	1000	100	2.8963	2.8963	0	2.9170	2.9170	0.0207	20.7
7	Q3368-14MSD	PRESS-SLUDGE	WATER	1.6	1000	100	2.9307	2.9307	0	2.9515	2.9515	0.0208	20.8

VB 137695

WORKLIST(Hardcopy Internal Chain)

WorkList Name : aslm oil & grease q3368 WorkList ID : 192761 Department : Wet-Chemistry Date : 10-29-2025 13:02:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-13	OUTSIDE-DUMPSTER	Solid	ASTM Oil and Grease	Cool 4 deg C	ARAM01	D41	10/16/2025	1664A
Q3368-14	PRESS-SLUDGE	Solid	ASTM Oil and Grease	Cool 4 deg C	ARAM01	D41	10/16/2025	1664A

Date/Time 10/29/25 13:20
Raw Sample Received by: TB (cc)
Raw Sample Relinquished by: TB (cc)

Date/Time 10/29/25 18:30
Raw Sample Received by: TB (cc)
Raw Sample Relinquished by: TB (cc)

LB1376

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

10/29/2025 16:02

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.978	0.0	0.213	
ICB1	0.026	0.0	0.023	
CCV1	0.965	0.0	0.210	
CCB1	0.025	0.0	0.023	
RL CHECK	0.103	0.0	0.038	
PB170314BL	0.029	0.0	0.023	
PB170314BS	1.000	0.0	0.217	
PB170314TB	0.038	0.0	0.025	
Q3368-13	0.277	0.0	0.073	
Q3368-13DUP	0.276	0.0	0.073	
Q3368-13MS	1.273	0.0	0.272	
Q3368-13MSD	1.260	0.0	0.269	
Q3368-14	0.090	0.0	0.035	
CCV2	0.996	0.0	0.217	
CCB2	0.034	0.0	0.024	

103% (50-150)

10/29/2025
RM

N 15
Mean 0.491
SD 0.5101
CV% 103.83

Aquakem v. 7.2AQ1

Results from time period:

Wed Oct 29 15:42:39 2025

Wed Oct 29 16:01:51 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-1 P		0.0139	mg/l	10/29/2025 9:59:36	
0.1PPM	A	Ammonia-1 P		0.1127	mg/l	10/29/2025 9:59:37	
0.2PPM	A	Ammonia-1 P		0.2	mg/l	10/29/2025 9:59:38	
0.4PPM	A	Ammonia-1 P		0.3833	mg/l	10/29/2025 9:59:39	
1.0PPM	A	Ammonia-1 P		0.9719	mg/l	10/29/2025 9:59:40	
1.3PPM	A	Ammonia-1 P		1.3376	mg/l	10/29/2025 9:59:41	
2.0PPM	A	Ammonia-1 P		2.0139	mg/l	10/29/2025 9:59:42	
ICV1	S	Ammonia-1 P		0.978	mg/l	10/29/2025 15:42:40	
ICB1	S	Ammonia-1 P		0.0257	mg/l	10/29/2025 15:42:41	
CCV1	S	Ammonia-1 P		0.9649	mg/l	10/29/2025 15:42:43	
CCB1	S	Ammonia-1 P		0.0255	mg/l	10/29/2025 15:42:46	
RL CHECK	S	Ammonia-1 P		0.103	mg/l	10/29/2025 15:42:49	
PB170314BL	S	Ammonia-1 P		0.0294	mg/l	10/29/2025 15:53:20	
PB170314BS	S	Ammonia-1 P		1.0003	mg/l	10/29/2025 15:53:23	
PB170314TB	S	Ammonia-1 P		0.0377	mg/l	10/29/2025 15:53:24	
Q3368-13	S	Ammonia-1 P		0.2767	mg/l	10/29/2025 15:53:26	
Q3368-13DUP	S	Ammonia-1 P		0.2756	mg/l	10/29/2025 15:53:28	
Q3368-13MS	S	Ammonia-1 P		1.2731	mg/l	10/29/2025 15:53:30	
Q3368-13MSD	S	Ammonia-1 P		1.2597	mg/l	10/29/2025 15:53:31	
Q3368-14	S	Ammonia-1 P		0.0899	mg/l	10/29/2025 16:01:46	
CCV2	S	Ammonia-1 P		0.9963	mg/l	10/29/2025 16:01:48	
CCB2	S	Ammonia-1 P		0.0341	mg/l	10/29/2025 16:01:51	

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

10/29/2025 10:09

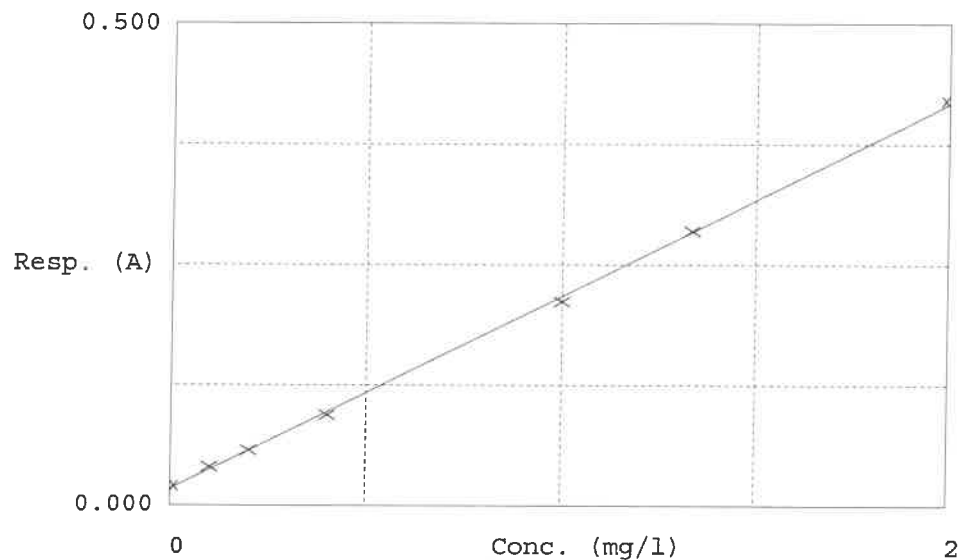
Test Ammonia-N

Accepted 10/29/2025 10:09

Factor 5.001
Bias 0.017

Coeff. of det. 0.999514

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.020	0.0139	0.0000	-
2	NH3-2PPM	0.040	0.1127	0.1000	12.7
3	NH3-2PPM	0.057	0.2000	0.2000	0.0
4	NH3-2PPM	0.094	0.3833	0.4000	-4.2
5	NH3-2PPM	0.212	0.9719	1.0000	-2.8
6	NH3-2PPM	0.285	1.3376	1.3333	2.9
7	NH3-2PPM	0.420	2.0139	2.0000	0.7

10/29/2025
RM

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: ASTM COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137721

Reagent/Standard	Lot/Log #
COD calibration std. 150 ppm	WP114659
COD calibration std. 100 ppm	WP114658
COD calibration std. 50 ppm	WP114656
COD calibration std. 10 ppm	WP114655
COD calibration std. 0 ppm	WP114654
COD ICV-LCS std, 50ppm	WP114661
COD calibration std. 75 ppm	WP114657
COD Digestion Vials Low Level 0-150Mg/L	W3230
COD CCV std, 50ppm	WP115326
COD ICV-LCS std, 50ppm	WP115327
RL CHECK	WP115328

Temp In (C): 148	Date In: 10/30/2025	Time In: 10:15
Temp Out (C): 150	Date Out: 10/30/2025	Time Out: 12:15

Intercept: 0.3943

Slope: 0.9887

Regression: 0.9996

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	Water	0.000	-0.399		09/08/2025	13:30
2	CAL2	10	1	Water	9.000	8.704	-13	09/08/2025	13:30
3	CAL3	50	1	Water	51.000	51.184	2.4	09/08/2025	13:31
4	CAL4	75	1	Water	77.000	77.481	3.3	09/08/2025	13:31
5	CAL5	100	1	Water	98.000	98.721	-1.3	09/08/2025	13:32
6	CAL6	150	1	Water	148.000	149.293	-0.5	09/08/2025	13:32

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: ASTM COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB137721

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	50.000	50.173	09/08/2025	13:33
2	ICB		NA	NA	1	Water	1.000	0.613	09/08/2025	13:33
3	CCV1	50	NA	NA	1	Water	48.000	48.150	10/30/2025	14:00
4	CCB1		NA	NA	1	Water	1.000	0.613	10/30/2025	14:00
5	RL Check	10	NA	NA	1	Water	11.000	10.727	10/30/2025	14:01
6	LB137721BL		NA	NA	1	Water	1.000	0.613	10/30/2025	14:01
7	LB137721BS	50	NA	NA	1	Water	51.000	51.184	10/30/2025	14:02
8	Q3368-13		NA	NA	5	Water	76.000	76.470	10/30/2025	14:02
9	Q3368-13DUP		NA	NA	5	Water	75.000	75.458	10/30/2025	14:03
10	Q3368-13MS	50	NA	NA	5	Water	85.000	85.573	10/30/2025	14:03
11	Q3368-13MSD	50	NA	NA	5	Water	86.000	86.584	10/30/2025	14:04
12	Q3368-14		NA	NA	5	Water	89.000	89.618	10/30/2025	14:04
13	CCV2	50	NA	NA	1	Water	50.000	50.173	10/30/2025	14:05
14	CCB2		NA	NA	1	Water	1.000	0.613	10/30/2025	14:05

WORKLIST(Hardcopy Internal Chain)

LB137721

WorkList Name : ASTM COD-Q3368

WorkList ID : 192777

Department : Wet-Chemistry

Date : 10-29-2025 12:13:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-13	OUTSIDE-DUMPSTER	Solid	ASTM COD	Cool 4 deg C	ARAM01	D41	10/16/2025	SM5220 D
Q3368-14	PRESS-SLUDGE	Solid	ASTM COD	Cool 4 deg C	ARAM01	D41	10/16/2025	SM5220 D

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB137757

Slope : 98.5

BalanceID: WC SC-7

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/- 0.05].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	11/04/2025	13:15
2	CAL2	1	Water	NA	NA	20.2	7.00	11/04/2025	13:16
3	CAL3	1	Water	NA	NA	20.2	10.02	11/04/2025	13:17
4	ICV	1	Water	NA	NA	20.2	7.01	11/04/2025	13:20
5	CCV1	1	Water	NA	NA	20.2	2.01	11/04/2025	13:22
6	Q3368-13	1	Solid	20.02	20	20.8	7.62	11/04/2025	13:30
7	Q3368-14	1	Solid	20.03	20	20.1	8.01	11/04/2025	13:37
8	Q3368-14DUP	1	Solid	20.03	20	20.3	8.02	11/04/2025	13:39
9	CCV2	1	Water	NA	NA	20.2	12.02	11/04/2025	13:40

U3137757

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ph q3368

WorkList ID : 192867

Department : Wet-Chemistry

Date : 11-04-2025 12:57:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-13	OUTSIDE-DUMPSTER	Solid	pH	Cool 4 deg C	ARAM01	D41	10/16/2025	9045D
Q3368-14	PRESS-SLUDGE	Solid	pH	Cool 4 deg C	ARAM01	D41	10/16/2025	9045D

Date/Time 11/04/25 13:10

Raw Sample Received by: To (see)

Raw Sample Relinquished by: To (see)

Date/Time

11/04/25

13:50

Raw Sample Received by:

Raw Sample Relinquished by:

SOP ID : M9030B-Sulfide-13

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : RM

Start Digest Date: 10/20/2025 Time : 14:10 Temp : N/A

End Digest Date: 10/20/2025 Time : 15:40 Temp : N/A

li batch
10/20/2025 16:10
10/20/2025 17:40

Digestion tube ID : M5595

Block Thermometer ID : N/A

Filter paper ID : N/A

Prep Technician Signature: *RM*

pH Meter ID : N/A

Supervisor Signature: *12*

Standardized Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP114311
FORMALDEHYDE	2.0ML	W3220
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
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

10/20/2025 RM

N/A

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

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170153BL	PBS153	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3368-06	OUTSIDE-DUMPSTER	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3368-07	PRESS-SLUDGE	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3369-04	MH-22	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3369-08	MH-21	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3374-04	TP-4-WC	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3374-08	TP-5-WC	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3381-02	VNJ-222	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3381-04	VNJ-245	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3381-06	RBR200059	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3381-08	VNJ-255	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3388-02	461	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3390-02	4175	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3397-04	TP-7-WC	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3402-03	41-LA	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3402-06	41-RA	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3402-09	41-LB	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3402-12	41-RB	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3403-04	MH-18	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3403-04DUP	MH-18DUP	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RSUL-10-17. WorkList ID : 192543 Department : Distillation Date : 10-17-2025 17:35:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3369-04	MH-22	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/16/2025	9034
Q3369-08	MH-21	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/16/2025	9034
Q3381-02	VNJ-222	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/17/2025	9034
Q3381-04	VNJ-245	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/17/2025	9034
Q3381-06	RBR200059	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/17/2025	9034
Q3381-08	VNJ-255	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/17/2025	9034
Q3388-02	461	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/17/2025	9034
Q3390-02	4175	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	10/17/2025	9034

Date/Time 10/20/2025 11:00
Raw Sample Received by: RML(wu)
Raw Sample Relinquished by: RML(wu)

Date/Time 10/20/2025 14:00
Raw Sample Received by: RML(wu)
Raw Sample Relinquished by: RML(wu)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : rsul2025

WorkList ID : 192593

Department : Distillation

Date : 10-20-2025 14:45:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-06	OUTSIDE-DUMPSTER	Solid	Reactive Sulfide	Cool 4 deg C	ARAM01	D41	10/16/2025	9034
Q3368-07	PRESS-SLUDGE	Solid	Reactive Sulfide	Cool 4 deg C	ARAM01	D41	10/16/2025	9034
Q3374-04	TP-4-WC	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	10/16/2025	9034
Q3374-08	TP-5-WC	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	10/17/2025	9034
Q3397-04	TP-7-WC	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/18/2025	9034
Q3402-03	41-LA	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/20/2025	9034
Q3402-06	41-RA	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/20/2025	9034
Q3402-09	41-LB	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/20/2025	9034
Q3402-12	41-RB	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	10/20/2025	9034
Q3403-04	MH-18	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	10/20/2025	9034

Date/Time 10/20/2025 13:45
Raw Sample Received by: RM (w)
Raw Sample Relinquished by: RM (w)

Date/Time 10/20/2025 16:30
Raw Sample Received by: RM (w)
Raw Sample Relinquished by: RM (w)

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-21

SDG No : N/A

Start Digest Date: 10/21/2025 Time : 08:45 Temp : N/A

Matrix : SOIL

End Digest Date: 10/21/2025 Time : 10:15 Temp : N/A

Pipette ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : N/A

Block ID : MC-1,MC-2

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

Standardized Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
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
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/2025 10:30	RM WC	RM WC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170174BL	PBS174	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3368-06DUP	OUTSIDE-DUMPSTERDUP	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3368-06	OUTSIDE-DUMPSTER	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3368-07	PRESS-SLUDGE	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3397-04	TP-7-WC	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3399-02	COMP-ROLLOFF	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3402-03	41-LA	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3402-06	41-RA	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3402-09	41-LB	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3402-12	41-RB	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3403-04	MH-18	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3404-02	MOO-25-0285-0288	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3404-06	MOO-25-0292	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3406-02	ARS20-0037	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3412-04	TP-6	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : rcn-10-21

WorkList ID : 192592

Department : Distillation

Date : 10-21-2025 08:04:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-06	OUTSIDE-DUMPSTER	Solid	Reactive Cyanide	Cool 4 deg C	ARAM01	D41	10/16/2025	9012B
Q3368-07	PRESS-SLUDGE	Solid	Reactive Cyanide	Cool 4 deg C	ARAM01	D41	10/16/2025	9012B
Q3397-04	TP-7-WC	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D31	10/18/2025	9012B
Q3399-02	COMP-ROLLOFF	Solid	Reactive Cyanide	Cool 4 deg C	ICES02	D41	10/20/2025	9012B
Q3402-03	41-LA	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D31	10/20/2025	9012B
Q3402-06	41-RA	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D31	10/20/2025	9012B
Q3402-09	41-LB	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D31	10/20/2025	9012B
Q3402-12	41-RB	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D31	10/20/2025	9012B
Q3403-04	MH-18	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D31	10/20/2025	9012B
Q3404-02	MOO-25-0285-0288	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	10/20/2025	9012B
Q3404-06	MOO-25-0292	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	10/20/2025	9012B
Q3406-02	ARS20-0037	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	10/20/2025	9012B
Q3412-04	TP-6	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D31	10/20/2025	9012B

Date/Time 10/21/2025 08:15
 Raw Sample Received by: RHL
 Raw Sample Relinquished by: RHL

Date/Time 10/21/2025 09:20
 Raw Sample Received by: RHL
 Raw Sample Relinquished by: RHL

SOP ID : MSM4500-NH3 B,G-Ammonia-18

SDG No : N/A

Start Digest Date: 10/29/2025 Time : 13:50 Temp : 150 °C

Matrix : WATER

End Digest Date: 10/29/2025 Time : 14:50 Temp : 160 °C

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Welgh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP115088
MS/MSD SPIKE SOL.	1.0ML	WP115087
RL CHECK	0.1ML	WP115087
PBW	50.0ML	W3112
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP113836
NAOH 6N	0.5-2.0ML	WP113887
H2SO4 0.04N	5.0ML	WP115336
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 WP114104,

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/29/2025 15:05	RM CWC	RM CWC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170314BL	PBW314	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB170314BS	LCS314	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB170314TB	LEB314	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3368-13DUP	OUTSIDE-DUMPSTERDUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3368-13MS	OUTSIDE-DUMPSTERMS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3368-13MSD	OUTSIDE-DUMPSTERMSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3368-13	OUTSIDE-DUMPSTER	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q3368-14	PRESS-SLUDGE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ASTM-AMMONIA-Q3368

WorkList ID : 192762

Department : Distillation

Date : 10-29-2025 12:13:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-13	OUTSIDE-DUMPSTER	Solid	ASTM Ammonia	Cool 4 deg C	ARAM01	D41	10/16/2025	SM4500-NH3
Q3368-14	PRESS-SLUDGE	Solid	ASTM Ammonia	Cool 4 deg C	ARAM01	D41	10/16/2025	SM4500-NH3

Date/Time 10/29/2025 12:15
 Raw Sample Received by: RH CWJ
 Raw Sample Relinquished by: JFCOR

Date/Time 11/4
 Raw Sample Received by: J
 Raw Sample Relinquished by: J

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QC Batch ID # LB137594

Review By	Eman	Review On	10/21/2025 2:18:39 PM
Supervise By	Iwona	Supervise On	10/21/2025 2:21:15 PM
SubDirectory	LB137594	Test	Ignitability
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	Q3368-06	OUTSIDE-DUMPSTE	SAM	10/21/25 10:10			OK
2	Q3368-06DUP	OUTSIDE-DUMPSTE	DUP	10/21/25 10:17			OK
3	Q3368-07	PRESS-SLUDGE	SAM	10/21/25 10:24			OK
4	Q3374-01	TP-4-WC	SAM	10/21/25 10:32			OK
5	Q3374-04	TP-4-WC	SAM	10/21/25 10:40			OK
6	Q3374-05	TP-5-WC	SAM	10/21/25 10:47			OK
7	Q3374-08	TP-5-WC	SAM	10/21/25 10:55			OK
8	Q3392-01	MH-20	SAM	10/21/25 11:02			OK
9	Q3392-04	MH-20	SAM	10/21/25 11:10			OK
10	Q3392-05	MH-19	SAM	10/21/25 11:17			OK
11	Q3392-08	MH-19	SAM	10/21/25 11:25			OK
12	Q3397-01	TP-7-WC	SAM	10/21/25 11:32			OK
13	Q3397-04	TP-7-WC	SAM	10/21/25 11:40			OK
14	Q3402-01	41-LA	SAM	10/21/25 11:47			OK
15	Q3402-03	41-LA	SAM	10/21/25 11:55			OK
16	Q3402-04	41-RA	SAM	10/21/25 12:02			OK
17	Q3402-06	41-RA	SAM	10/21/25 12:10			OK
18	Q3402-07	41-LB	SAM	10/21/25 12:17			OK

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QC Batch ID # LB137594

Review By	Eman	Review On	10/21/2025 2:18:39 PM
Supervise By	Iwona	Supervise On	10/21/2025 2:21:15 PM
SubDirectory	LB137594	Test	Ignitability
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	Q3402-09	41-LB	SAM	10/21/25 12:25			OK
20	Q3402-10	41-RB	SAM	10/21/25 12:32			OK
21	Q3402-12	41-RB	SAM	10/21/25 12:40			OK
22	Q3403-01	MH-18	SAM	10/21/25 12:47			OK
23	Q3403-04	MH-18	SAM	10/21/25 12:55			OK
24	Q3403-04DUP	MH-18DUP	DUP	10/21/25 13:03			OK

Instrument ID: FILTER/GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137595

Review By	Eman	Review On	10/21/2025 2:18:06 PM
Supervise By	Iwona	Supervise On	10/21/2025 2:20:43 PM
SubDirectory	LB137595	Test	Paint Filter
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	Q3368-06	OUTSIDE-DUMPSTE	SAM	10/21/25 08:35			OK
2	Q3368-06DUP	OUTSIDE-DUMPSTE	DUP	10/21/25 08:42			OK
3	Q3368-07	PRESS-SLUDGE	SAM	10/21/25 08:49			OK
4	Q3374-01	TP-4-WC	SAM	10/21/25 08:57			OK
5	Q3374-05	TP-5-WC	SAM	10/21/25 09:05			OK
6	Q3392-01	MH-20	SAM	10/21/25 09:12			OK
7	Q3392-05	MH-19	SAM	10/21/25 09:20			OK
8	Q3397-01	TP-7-WC	SAM	10/21/25 09:27			OK
9	Q3402-01	41-LA	SAM	10/21/25 09:35			OK
10	Q3402-04	41-RA	SAM	10/21/25 09:42			OK
11	Q3402-07	41-LB	SAM	10/21/25 09:50			OK
12	Q3402-10	41-RB	SAM	10/21/25 09:57			OK
13	Q3403-01	MH-18	SAM	10/21/25 10:05			OK

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137596

Review By	rubina	Review On	10/21/2025 12:22:33 PM
Supervise By	Iwona	Supervise On	10/21/2025 1:21:06 PM
SubDirectory	LB137596	Test	Reactive Sulfide
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	W3248,W3213,W3149		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB170153BL	PB170153BL	MB	10/21/25 09:00		rubina	OK
2	Q3368-06	OUTSIDE-DUMPSTE	SAM	10/21/25 09:03		rubina	OK
3	Q3368-07	PRESS-SLUDGE	SAM	10/21/25 09:06		rubina	OK
4	Q3369-04	MH-22	SAM	10/21/25 09:08		rubina	OK
5	Q3369-08	MH-21	SAM	10/21/25 09:10		rubina	OK
6	Q3374-04	TP-4-WC	SAM	10/21/25 09:13		rubina	OK
7	Q3374-08	TP-5-WC	SAM	10/21/25 09:15		rubina	OK
8	Q3381-02	VNJ-222	SAM	10/21/25 09:17		rubina	OK
9	Q3381-04	VNJ-245	SAM	10/21/25 09:19		rubina	OK
10	Q3381-06	RBR200059	SAM	10/21/25 09:22		rubina	OK
11	Q3381-08	VNJ-255	SAM	10/21/25 09:25		rubina	OK
12	Q3388-02	461	SAM	10/21/25 09:27		rubina	OK
13	Q3390-02	4174	SAM	10/21/25 09:30		rubina	OK
14	Q3397-04	TP-7-WC	SAM	10/21/25 09:33		rubina	OK
15	Q3402-03	41-LA	SAM	10/21/25 09:36		rubina	OK
16	Q3402-06	41-RA	SAM	10/21/25 09:39		rubina	OK
17	Q3402-09	41-LB	SAM	10/21/25 09:41		rubina	OK
18	Q3402-12	41-RB	SAM	10/21/25 09:44		rubina	OK

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137596

Review By	rubina	Review On	10/21/2025 12:22:33 PM
Supervise By	Iwona	Supervise On	10/21/2025 1:21:06 PM
SubDirectory	LB137596	Test	Reactive Sulfide
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	W3248,W3213,W3149		

19	Q3403-04	MH-18	SAM	10/21/25 09:46		rubina	OK
20	Q3403-04DUP	MH-18DUP	DUP	10/21/25 09:48		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137602

Review By	rubina	Review On	10/21/2025 4:39:58 PM
Supervise By	Iwona	Supervise On	10/21/2025 4:40:24 PM
SubDirectory	LB137602	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115266,WP115267,WP115268,WP115269,WP115270,WP115271,WP115272		
ICV Standard	WP115273		
CCV Standard	WP115267		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP115157,WP114324,WP115274		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/21/25 10:18		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/21/25 10:18		rubina	OK
3	10PPBCN	10PPBCN	CAL3	10/21/25 10:18		rubina	OK
4	50PPBCN	50PPBCN	CAL4	10/21/25 10:18		rubina	OK
5	100PPBCN	100PPBCN	CAL5	10/21/25 10:18		rubina	OK
6	250PPBCN	250PPBCN	CAL6	10/21/25 10:18		rubina	OK
7	500PPBCN	500PPBCN	CAL7	10/21/25 10:18		rubina	OK
8	ICV1	ICV1	ICV	10/21/25 12:16		rubina	OK
9	ICB1	ICB1	ICB	10/21/25 12:16		rubina	OK
10	CCV1	CCV1	CCV	10/21/25 12:16		rubina	OK
11	CCB1	CCB1	CCB	10/21/25 12:16		rubina	OK
12	PB170152BL	PB170152BL	MB	10/21/25 12:16		rubina	OK
13	Q3369-04	MH-22	SAM	10/21/25 12:24		rubina	OK
14	Q3369-04DUP	MH-22DUP	DUP	10/21/25 12:24		rubina	OK
15	Q3369-08	MH-21	SAM	10/21/25 12:24		rubina	OK
16	Q3374-04	TP-4-WC	SAM	10/21/25 12:24		rubina	OK
17	Q3374-08	TP-5-WC	SAM	10/21/25 12:24		rubina	OK
18	Q3381-02	VNJ-222	SAM	10/21/25 12:24		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137602

Review By	rubina	Review On	10/21/2025 4:39:58 PM
Supervise By	Iwona	Supervise On	10/21/2025 4:40:24 PM
SubDirectory	LB137602	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115266,WP115267,WP115268,WP115269,WP115270,WP115271,WP115272		
ICV Standard	WP115273		
CCV Standard	WP115267		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP115157,WP114324,WP115274		

19	Q3381-04	VNJ-245	SAM	10/21/25 12:24		rubina	OK
20	Q3381-06	RBR200059	SAM	10/21/25 12:24		rubina	OK
21	Q3381-08	VNJ-255	SAM	10/21/25 12:24		rubina	OK
22	CCV2	CCV2	CCV	10/21/25 12:32		rubina	OK
23	CCB2	CCB2	CCB	10/21/25 12:32		rubina	OK
24	Q3388-02	461	SAM	10/21/25 12:32		rubina	OK
25	Q3392-04	MH-20	SAM	10/21/25 12:32		rubina	OK
26	Q3392-08	MH-19	SAM	10/21/25 12:32		rubina	OK
27	Q3390-02	4174	SAM	10/21/25 12:32		rubina	OK
28	PB170174BL	PB170174BL	MB	10/21/25 12:32		rubina	OK
29	Q3368-07	PRESS-SLUDGE	SAM	10/21/25 12:39		rubina	OK
30	Q3397-04	TP-7-WC	SAM	10/21/25 12:39		rubina	OK
31	Q3368-06	OUTSIDE-DUMPSTE	SAM	10/21/25 12:39		rubina	OK
32	Q3368-06DUP	OUTSIDE-DUMPSTE	DUP	10/21/25 12:39		rubina	OK
33	Q3399-02	COMP-ROLLOFF	SAM	10/21/25 12:39		rubina	OK
34	CCV3	CCV3	CCV	10/21/25 12:39		rubina	OK
35	CCB3	CCB3	CCB	10/21/25 12:47		rubina	OK
36	Q3402-03	41-LA	SAM	10/21/25 12:47		rubina	OK
37	Q3402-06	41-RA	SAM	10/21/25 12:47		rubina	OK
38	Q3402-09	41-LB	SAM	10/21/25 12:47		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137602

Review By	rubina	Review On	10/21/2025 4:39:58 PM
Supervise By	Iwona	Supervise On	10/21/2025 4:40:24 PM
SubDirectory	LB137602	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115266,WP115267,WP115268,WP115269,WP115270,WP115271,WP115272		
ICV Standard	WP115273		
CCV Standard	WP115267		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP115157,WP114324,WP115274		

39	Q3402-12	41-RB	SAM	10/21/25 12:47		rubina	OK
40	Q3403-04	MH-18	SAM	10/21/25 12:47		rubina	OK
41	Q3404-02	MOO-25-0285-0288	SAM	10/21/25 12:47		rubina	OK
42	Q3404-06	MOO-25-0292	SAM	10/21/25 12:47		rubina	OK
43	Q3406-02	ARS20-0037	SAM	10/21/25 12:53		rubina	OK
44	Q3412-04	TP-6	SAM	10/21/25 12:53		rubina	OK
45	CCV4	CCV4	CCV	10/21/25 12:53		rubina	OK
46	CCB4	CCB4	CCB	10/21/25 12:53		rubina	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137603

Review By	jignesh	Review On	10/22/2025 9:56:55 AM
Supervise By	Iwona	Supervise On	10/22/2025 10:24:29 AM
SubDirectory	LB137603	Test	Corrosivity
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	W3178,W3093,W3191,W3217,W3161,W3200		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/21/25 12:30		Jignesh	OK
2	CAL2	CAL2	CAL	10/21/25 12:31		Jignesh	OK
3	CAL3	CAL3	CAL	10/21/25 12:33		Jignesh	OK
4	ICV	ICV	ICV	10/21/25 12:35		Jignesh	OK
5	CCV1	CCV1	CCV	10/21/25 12:36		Jignesh	OK
6	Q3368-06	OUTSIDE-DUMPSTE	SAM	10/21/25 12:44		Jignesh	OK
7	Q3368-06DUP	OUTSIDE-DUMPSTE	DUP	10/21/25 12:46		Jignesh	OK
8	Q3368-07	PRESS-SLUDGE	SAM	10/21/25 12:49		Jignesh	OK
9	Q3397-04	TP-7-WC	SAM	10/21/25 12:50		Jignesh	OK
10	Q3399-02	COMP-ROLLOFF	SAM	10/21/25 13:00		Jignesh	OK
11	Q3402-03	41-LA	SAM	10/21/25 13:02		Jignesh	OK
12	Q3402-06	41-RA	SAM	10/21/25 13:05		Jignesh	OK
13	Q3402-09	41-LB	SAM	10/21/25 13:10		Jignesh	OK
14	Q3402-12	41-RB	SAM	10/21/25 13:15		Jignesh	OK
15	Q3403-04	MH-18	SAM	10/21/25 13:20		Jignesh	OK
16	CCV2	CCV2	CCV	10/21/25 13:25		Jignesh	OK
17	Q3404-02	MOO-25-0285-0288	SAM	10/21/25 13:30		Jignesh	OK
18	Q3404-06	MOO-25-0292	SAM	10/21/25 13:35		Jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137603

Review By	jignesh	Review On	10/22/2025 9:56:55 AM
Supervise By	Iwona	Supervise On	10/22/2025 10:24:29 AM
SubDirectory	LB137603	Test	Corrosivity
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	W3178,W3093,W3191,W3217,W3161,W3200		

19	Q3406-02	ARS20-0037	SAM	10/21/25 13:44		Jignesh	OK
20	Q3412-04	TP-6	SAM	10/21/25 13:50		Jignesh	OK
21	CCV3	CCV3	CCV	10/21/25 14:00		Jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137683

Review By	jignesh	Review On	10/29/2025 10:47:27 AM
Supervise By	Iwona	Supervise On	10/29/2025 1:42:22 PM
SubDirectory	LB137683	Test	TS
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	LB137683BL	LB137683BL	MB	10/28/25 11:00		jignesh	OK
2	Q3368-06	OUTSIDE-DUMPSTE	SAM	10/28/25 11:00		jignesh	OK
3	Q3368-07	PRESS-SLUDGE	SAM	10/28/25 11:00		jignesh	OK
4	Q3368-07DUP	PRESS-SLUDGEDUP	DUP	10/28/25 11:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137684

Review By	jignesh	Review On	10/29/2025 11:28:06 AM
Supervise By	Iwona	Supervise On	10/29/2025 1:42:01 PM
SubDirectory	LB137684	Test	TVS
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	LB137684BL	LB137684BL	MB	10/28/25 17:30		jignesh	OK
2	Q3368-06	OUTSIDE-DUMPSTE	SAM	10/28/25 17:30		jignesh	OK
3	Q3368-07	PRESS-SLUDGE	SAM	10/28/25 17:30		jignesh	OK
4	Q3368-07DUP	PRESS-SLUDGEDUP	DUP	10/28/25 17:30		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137692

Review By	jignesh	Review On	10/29/2025 2:25:20 PM
Supervise By	Iwona	Supervise On	10/29/2025 2:38:54 PM
SubDirectory	LB137692	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	W3240,NA,EP2655,N/A,N/A,W3186,WP115020,N/A,WP115021		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137692BL	LB137692BL	MB	10/29/25 10:00		jignesh	OK
2	LB137692BS	LB137692BS	LCS	10/29/25 10:00		jignesh	OK
3	Q3368-06	OUTSIDE-DUMPSTE	SAM	10/29/25 10:00		jignesh	OK
4	Q3368-06DUP	OUTSIDE-DUMPSTE	DUP	10/29/25 10:00		jignesh	OK
5	Q3368-06MS	OUTSIDE-DUMPSTE	MS	10/29/25 10:00		jignesh	OK
6	Q3368-06MSD	OUTSIDE-DUMPSTE	MSD	10/29/25 10:00		jignesh	OK
7	Q3368-07	PRESS-SLUDGE	SAM	10/29/25 10:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137694

Review By	jignesh	Review On	10/30/2025 12:14:47 PM
Supervise By	Iwona	Supervise On	10/30/2025 12:37:55 PM
SubDirectory	LB137694	Test	ASTM TS
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	LB137694BL	LB137694BL	MB	10/29/25 11:00		jignesh	OK
2	Q3368-13	OUTSIDE-DUMPSTE	SAM	10/29/25 11:00		jignesh	OK
3	Q3368-14	PRESS-SLUDGE	SAM	10/29/25 11:00		jignesh	OK
4	Q3368-14DUP	PRESS-SLUDGEDUP	DUP	10/29/25 11:00		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB137695

Review By	jignesh	Review On	10/29/2025 1:16:51 PM
Supervise By	Iwona	Supervise On	10/31/2025 12:33:19 PM
SubDirectory	LB137695	Test	ASTM 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	W3240,M6069,EP2655,WP115016,N/A,N/A,WP115017,N/A,WP115018		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137695BL	LB137695BL	MB	10/29/25 15:00		jignesh	OK
2	LB137695BS	LB137695BS	LCS	10/29/25 15:00		jignesh	OK
3	Q3368-13	OUTSIDE-DUMPSTE	SAM	10/29/25 15:00		jignesh	OK
4	Q3368-14	PRESS-SLUDGE	SAM	10/29/25 15:00		jignesh	OK
5	Q3368-14DUP	PRESS-SLUDGEDUP	DUP	10/29/25 15:00		jignesh	OK
6	Q3368-14MS	PRESS-SLUDGEMS	MS	10/29/25 15:00		jignesh	OK
7	Q3368-14MSD	PRESS-SLUDGEMSD	MSD	10/29/25 15:00		jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137698

Review By	rubina	Review On	10/30/2025 9:10:43 AM
Supervise By	Iwona	Supervise On	10/30/2025 10:00:23 AM
SubDirectory	LB137698	Test	ASTM Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP115376		
ICV Standard	WP115378		
CCV Standard	WP115377		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115088		
Chk Standard	WP115290,WP114133,WP113929,WP114132		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	10/29/25 09:59		rubina	OK
2	0.1PPM	0.1PPM	CAL2	10/29/25 09:59		rubina	OK
3	0.2PPM	0.2PPM	CAL3	10/29/25 09:59		rubina	OK
4	0.4PPM	0.4PPM	CAL4	10/29/25 09:59		rubina	OK
5	1.0PPM	1.0PPM	CAL5	10/29/25 09:59		rubina	OK
6	1.3PPM	1.3PPM	CAL6	10/29/25 09:59		rubina	OK
7	2.0PPM	2.0PPM	CAL7	10/29/25 09:59		rubina	OK
8	ICV1	ICV1	ICV	10/29/25 15:42		rubina	OK
9	ICB1	ICB1	ICB	10/29/25 15:42		rubina	OK
10	CCV1	CCV1	CCV	10/29/25 15:42		rubina	OK
11	CCB1	CCB1	CCB	10/29/25 15:42		rubina	OK
12	RL	RL	LOQ	10/29/25 15:42		rubina	OK
13	PB170314BL	PB170314BL	MB	10/29/25 15:53		rubina	OK
14	PB170314BS	PB170314BS	LCS	10/29/25 15:53		rubina	OK
15	PB170314TB	PB170314TB	MB	10/29/25 15:53		rubina	OK
16	Q3368-13	OUTSIDE-DUMPSTE	SAM	10/29/25 15:53		rubina	OK
17	Q3368-13DUP	OUTSIDE-DUMPSTE	DUP	10/29/25 15:53		rubina	OK
18	Q3368-13MS	OUTSIDE-DUMPSTE	MS	10/29/25 15:53		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB137698

Review By	rubina	Review On	10/30/2025 9:10:43 AM
Supervise By	Iwona	Supervise On	10/30/2025 10:00:23 AM
SubDirectory	LB137698	Test	ASTM Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP115376		
ICV Standard	WP115378		
CCV Standard	WP115377		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115088		
Chk Standard	WP115290,WP114133,WP113929,WP114132		

19	Q3368-13MSD	OUTSIDE-DUMPSTE	MSD	10/29/25 15:53		rubina	OK
20	Q3368-14	PRESS-SLUDGE	SAM	10/29/25 16:01		rubina	OK
21	CCV2	CCV2	CCV	10/29/25 16:01		rubina	OK
22	CCB2	CCB2	CCB	10/29/25 16:01		rubina	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB137721

Review By	Iwona	Review On	10/30/2025 3:32:39 PM
Supervise By	jignesh	Supervise On	10/30/2025 3:35:26 PM
SubDirectory	LB137721	Test	ASTM COD
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	WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,W3230,WP115326,WP115327,WP1		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/08/25 13:30		Iwona	OK
2	CAL2	CAL2	CAL	09/08/25 13:30		Iwona	OK
3	CAL3	CAL3	CAL	09/08/25 13:31		Iwona	OK
4	CAL4	CAL4	CAL	09/08/25 13:31		Iwona	OK
5	CAL5	CAL5	CAL	09/08/25 13:32		Iwona	OK
6	CAL6	CAL6	CAL	09/08/25 13:32		Iwona	OK
7	ICV	ICV	ICV	09/08/25 13:33		Iwona	OK
8	ICB	ICB	ICB	09/08/25 13:33		Iwona	OK
9	CCV1	CCV1	CCV	10/30/25 14:00		Iwona	OK
10	CCB1	CCB1	CCB	10/30/25 14:00		Iwona	OK
11	RL Check	RL Check	RL	10/30/25 14:01		Iwona	OK
12	LB137721BL	LB137721BL	MB	10/30/25 14:01		Iwona	OK
13	LB137721BS	LB137721BS	LCS	10/30/25 14:02		Iwona	OK
14	Q3368-13	OUTSIDE-DUMPSTE	SAM	10/30/25 14:02		Iwona	OK
15	Q3368-13DUP	OUTSIDE-DUMPSTE	DUP	10/30/25 14:03		Iwona	OK
16	Q3368-13MS	OUTSIDE-DUMPSTE	MS	10/30/25 14:03		Iwona	OK
17	Q3368-13MSD	OUTSIDE-DUMPSTE	MSD	10/30/25 14:04		Iwona	OK
18	Q3368-14	PRESS-SLUDGE	SAM	10/30/25 14:04		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB137721

Review By	Iwona	Review On	10/30/2025 3:32:39 PM
Supervise By	jignesh	Supervise On	10/30/2025 3:35:26 PM
SubDirectory	LB137721	Test	ASTM COD
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	WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,W3230,WP115326,WP115327,WP1		

19	CCV2	CCV2	CCV	10/30/25 14:05		Iwona	OK
20	CCB2	CCB2	CCB	10/30/25 14:05		Iwona	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137757

Review By	jignesh	Review On	11/4/2025 1:12:17 PM
Supervise By	Iwona	Supervise On	11/4/2025 1:28:51 PM
SubDirectory	LB137757	Test	pH
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	W3178,W3093,W3191,W3217,W3161,W3200		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/04/25 13:15		Jignesh	OK
2	CAL2	CAL2	CAL	11/04/25 13:16		Jignesh	OK
3	CAL3	CAL3	CAL	11/04/25 13:17		Jignesh	OK
4	ICV	ICV	ICV	11/04/25 13:20		Jignesh	OK
5	CCV1	CCV1	CCV	11/04/25 13:22		Jignesh	OK
6	Q3368-13	OUTSIDE-DUMPSTE	SAM	11/04/25 13:30		Jignesh	OK
7	Q3368-14	PRESS-SLUDGE	SAM	11/04/25 13:37		Jignesh	OK
8	Q3368-14DUP	PRESS-SLUDGEDUP	DUP	11/04/25 13:39		Jignesh	OK
9	CCV2	CCV2	CCV	11/04/25 13:40		Jignesh	OK

Prep Standard - Chemical Standard Summary

Order ID : Q3368

Test : ASTM Ammonia,ASTM COD,ASTM Oil and Grease,ASTM TS,Corrosivity,Ignitability,Oil and Grease,Paint Filter,Percent Solids,pH,Reactive Cyanide,Reactive Sulfide,TS,TVS

Prepbatch ID : PB170153,PB170174,PB170314,

Sequence ID/Qc Batch ID: LB137594,LB137595,LB137596,LB137602,LB137603,LB137683,LB137684,LB137692,LB137694,LB137695

Standard ID :

EP2655,WP113836,WP113838,WP113887,WP113929,WP114132,WP114133,WP114311,WP114324,WP114652,WP114653,WP114654,WP114655,WP114656,WP114657,WP114658,WP114659,WP114661,WP115016,WP115017,WP115018,WP115020,WP115021,WP115085,WP115086,WP115087,WP115088,WP115157,WP115265,WP115266,WP115267,WP115268,WP115269,WP115270,WP115271,WP115272,WP115273,WP115274,WP115290,WP115324,WP115325,WP115326,WP115327,WP115328,WP115336,WP115376,WP115377,WP115378,

Chemical ID :

E3875,E3972,M6069,M6151,M6186,W2663,W2666,W2668,W2817,W2871,W2926,W3009,W3019,W3082,W3093,W3112,W3113,W3132,W3133,W3139,W3149,W3155,W3161,W3169,W3178,W3186,W3191,W3195,W3196,W3200,W3203,W3213,W3214,W3217,W3219,W3220,W3222,W3224,W3230,W3240,W3248,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2655	10/24/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 10/24/2025
<u>FROM</u> 4000.00000gram of E3875 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
11	Sodium hydroxide absorbing solution 0.25 N	WP113836	07/08/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/08/2025
<u>FROM</u> 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3371	Cyanide LCS Spike Solution, 5PPM	WP113838	07/08/2025	12/24/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/08/2025

FROM 1.00000ml of W3224 + 199.00000ml of WP113836 = Final Quantity: 200.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1471	NaOH Solution, 6N	WP113887	07/10/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/10/2025

FROM 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
290	Phenol reagent for Ammonia	WP113929	07/14/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/15/2025
<u>FROM</u> 3.20000gram of W3113 + 8.30000gram of W2663 + 88.80000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP114132	07/31/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/31/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
289	Sodium Hypochlorite for Ammonia	WP114133	07/31/2025	12/31/2025	Rubina Mughal	None	None	Iwona Zarych
								08/04/2025

FROM 50.00000ml of W3112 + 50.00000ml of W3222 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
160	0.5M ZINC ACETATE	WP114311	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh
								08/19/2025

FROM 0.88900L of W3112 + 1.00000ml of M6151 + 110.00000gram of W2926 = Final Quantity: 1000.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
607	PYRIDINE-BARBITURIC ACID	WP114324	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	Glass Pipette-A	Jignesh Parikh 08/19/2025
<u>FROM</u>	145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2456	COD Stock std, 1000ppm	WP114652	09/08/2025	09/15/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh
<u>FROM</u> 0.08500gram of W3219 + 100.00000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2457	COD Stock std-SS, 1000ppm	WP114653	09/08/2025	09/15/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 09/11/2025

FROM 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
139	COD calibration std. 0 ppm	WP114654	09/08/2025	09/15/2025	Iwona Zarych	None	None	Jignesh Parikh 09/11/2025

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
138	COD calibration std. 10 ppm	WP114655	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh

(WC)

FROM 9.90000ml of W3112 + 0.10000ml of WP114652 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
137	COD calibration std. 50 ppm	WP114656	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh

(WC)

FROM 9.50000ml of W3112 + 0.50000ml of WP114652 = Final Quantity: 10.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4161	COD calibration std. 75 ppm	WP114657	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/11/2025
<u>FROM</u>	9.25000ml of W3112 + 0.75000ml of WP114652 = Final Quantity: 10.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
136	COD calibration std. 100 ppm	WP114658	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 09/11/2025
FROM 9.00000ml of W3112 + 1.00000ml of WP114652 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
135	COD calibration std. 150 ppm	WP114659	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3	Jignesh Parikh 09/11/2025

(WC)

FROM 8.50000ml of W3112 + 1.50000ml of WP114652 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2459	COD ICV-LCS std, 50ppm	WP114661	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3	Jignesh Parikh 09/11/2025

(WC)

FROM 9.50000ml of W3112 + 0.50000ml of WP114653 = Final Quantity: 10.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
229	1:1 HCL	WP115016	10/02/2025	02/17/2026	Jignesh Parikh	None	None	Iwona Zarych
								10/02/2025

FROM 500.00000ml of M6151 + 500.00000ml of W3112 = Final Quantity: 1.000 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2470	1664A SPIKING SOLN	WP115017	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_S CALE_7 (WC SC-6)	None	Iwona Zarych
								10/02/2025

FROM 1000.00000ml of E3972 + 4.00000gram of W2817 + 4.00000gram of W2871 = Final Quantity: 1000.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3374	1664A QCS spiking solution-SS	WP115018	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 10/02/2025
<u>FROM</u>	1000.00000ml of E3972 + 4.00000gram of W3009 + 4.00000gram of W3082 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3931	Spiking std for 9071B	WP115020	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 10/02/2025
<u>FROM</u>	1.00000gram of W2817 + 1.00000gram of W2871 + 1.00000ml of E3972 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3873	Spiking solution for 9071B - SS	WP115021	10/02/2025	04/02/2026	Jignesh Parikh	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 10/02/2025
<u>FROM</u>	1.00000gram of W3009 + 1.00000gram of W3082 + 1.00000L of E3972 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP115085	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 10/08/2025
<u>FROM</u> 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP115086	10/08/2025	04/08/2026	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 10/08/2025
<u>FROM</u>	3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP115087	10/08/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/08/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP115085 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP115088	10/08/2025	11/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/08/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP115086 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
539	CN BUFFER	WP115157	10/10/2025	12/03/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 10/14/2025
<u>FROM</u>	138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3456	Cyanide Intermediate Working Std, 5PPM	WP115265	10/21/2025	10/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 0.25000ml of W3214 + 49.75000ml of WP113836 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4	Calibration standard 500 ppb	WP115266	10/21/2025	10/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 45.00000ml of WP113836 + 5.00000ml of WP115265 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3761	Calibration-CCV CN Standard 250 ppb	WP115267	10/21/2025	10/22/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 10/24/2025
<u>FROM</u> 2.50000ml of WP115265 + 47.50000ml of WP113836 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
6	Calibration Standard 100 ppb	WP115268	10/21/2025	10/22/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 10/24/2025
<u>FROM</u>	1.00000ml of WP115265 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
7	Calibration Standard 50 ppb	WP115269	10/21/2025	10/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
FROM 0.50000ml of WP115265 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml 								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
8	Calibration Standard 10 ppb	WP115270	10/21/2025	10/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
FROM 1.00000ml of WP115266 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
9	Calibration Standard 5 ppb	WP115271	10/21/2025	10/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
FROM 0.50000ml of WP115266 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml 								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
167	0 ppb CN calibration std	WP115272	10/21/2025	10/22/2025	Rubina Mughal	None	None	Iwona Zarych 10/24/2025
<u>FROM</u> 50.00000ml of WP113836 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2168	RCN ICV STD, 100 PPB	WP115273	10/21/2025	10/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 1.00000ml of WP113838 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1582	Chloramine T solution, 0.014M	WP115274	10/21/2025	10/22/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	Glass Pipette-A	Iwona Zarych 10/24/2025
<u>FROM</u>	0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
740	sodium nitroferricyanide for ammonia	WP115290	10/22/2025	11/22/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych 10/24/2025
<u>FROM</u>	0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2456	COD Stock std, 1000ppm	WP115324	10/24/2025	10/31/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh 10/27/2025
<u>FROM</u> 0.08500gram of W3219 + 100.00000ml of W3112 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2457	COD Stock std-SS, 1000ppm	WP115325	10/24/2025	10/31/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh 10/27/2025
<u>FROM</u> 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2458	COD CCV std, 50ppm	WP115326	10/24/2025	10/31/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 10/27/2025
FROM 9.50000ml of W3112 + 0.50000ml of WP115324 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2459	COD ICV-LCS std, 50ppm	WP115327	10/24/2025	10/31/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 10/27/2025

FROM 9.50000ml of W3112 + 0.50000ml of WP115325 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4162	RL CHECK	WP115328	10/24/2025	10/31/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 10/27/2025

FROM 9.90000ml of W3112 + 0.10000ml of WP115324 = Final Quantity: 10.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1597	0.04 N H2SO4	WP115336	10/27/2025	04/27/2026	Rubina Mughal	None	WETCHEM_PIPETTE_3	Jignesh Parikh
<u>FROM</u>		1.00000ml of M6186 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml						

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP115376	10/29/2025	10/30/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/29/2025
<u>FROM</u> 48.00000ml of W3112 + 2.00000ml of WP115087 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP115377	10/29/2025	10/30/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 49.00000ml of W3112 + 1.00000ml of WP115087 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP115378	10/29/2025	10/30/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 10/29/2025
<u>FROM</u> 49.00000ml of W3112 + 1.00000ml of WP115088 = Final Quantity: 50.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	07/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	07/12/2026	08/13/2025 / Sagar	08/06/2025 / Sagar	M6186

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	2HD0179	01/27/2030	01/27/2020 / apatel	01/27/2020 / apatel	W2663

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYST, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	0000266903	05/04/2027	09/07/2021 / apatel	08/26/2021 / apatel	W2871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J4296-1 / ZINC ACETATE, DIHYD, CRYST, ACS, 500G	383058	07/05/2027	07/05/2022 / ketankumar	07/05/2022 / ketankumar	W2926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	SHBP8192	02/27/2028	02/27/2023 / lwona	02/27/2023 / lwona	W3009

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / lwona	04/03/2023 / lwona	W3019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / lwona	02/26/2024 / lwona	W3082

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / lwona	W3113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / lwona	07/26/2024 / lwona	W3132

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140476 / Test Paper,PH Short Range 9.0/10.0	L23	08/22/2029	08/22/2024 / lwona	08/22/2024 / lwona	W3133

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / lwona	09/09/2024 / lwona	W3139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / lwona	10/16/2024 / lwona	W3149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12	14-860	12/02/2029	12/02/2024 / lwona	12/02/2024 / lwona	W3155

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / lwona	12/09/2024 / lwona	W3161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / lwona	01/03/2025 / lwona	W3169

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	03/10/2025 / lwona	03/10/2025 / lwona	W3186

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	24L0356561	08/31/2027	03/19/2025 / lwona	03/19/2025 / lwona	W3195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	MKCV1009	09/30/2026	03/19/2025 / lwona	03/19/2025 / lwona	W3196

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
RICCA CHEMICAL COMPANY	1615-16 / pH 12.00 Buffer	2504F20	09/30/2026	04/11/2025 / lwona	04/11/2025 / lwona	W3200

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBF3271V	05/16/2029	04/21/2025 / Iwona	04/21/2025 / Iwona	W3203

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL35830-4 / IODINE SOLUTION .025N 1L	MK25A21527	01/20/2029	05/21/2025 / Iwona	05/21/2025 / Iwona	W3213

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1505H73	11/30/2025	05/21/2025 / Iwona	05/21/2025 / Iwona	W3214

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	2504D34	03/31/2027	07/02/2025 / jignesh	06/26/2025 / Iwona	W3217

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	2025040493	06/30/2030	06/26/2025 / Iwona	06/26/2025 / Iwona	W3219

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML	MKCW7614	12/31/2026	06/26/2025 / Iwona	06/26/2025 / Iwona	W3220

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9416-1 / Sodium Hypochlorite 500 ml	2506M51	12/31/2025	07/02/2025 / lwona	07/02/2025 / lwona	W3222

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45060288	12/24/2025	07/07/2025 / lwona	07/07/2025 / lwona	W3224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	5GE0517	05/31/2030	10/03/2025 / lwona	07/11/2025 / lwona	W3230

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/30/2026	09/15/2025 / JIGNESH	09/12/2025 / JIGNESH	W3240

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	250904J	02/28/2027	10/03/2025 / lwona	10/03/2025 / lwona	W3248



Certificate Of Analysis

Item Number	P1060	Lot Number	2HD0179
Item	Phenol, Loose Crystal, Reagent, ACS		
CAS Number	108-95-2		
Molecular Formula	C ₆ H ₆ O	Molecular Weight	94.11

Test	Specification		Result
	min	max	
ASSAY (C ₆ H ₅ OH)	99.0 %		100.02 %
FREEZING POINT (DRY)	40.5 C		40.5°C
CLARITY OF SOLUTION	TO PASS TEST		PASSES TEST
RESIDUE AFTER EVAPORATION		0.05 %	<0.05 %
WATER		0.5 %	0.0087 %
DATE OF MANUFACTURE			06-MAR-2018

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



Certificate Of Analysis Results Certified by

Ibad Tirmizi
Director of Quality
Spectrum Chemical Mfg. Corp.

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

Hexadecane, 99.0%



Material No.: H223-57
Batch No.: 0000266903
Manufactured Date: 2020/05/05
Retest Date: 2027/05/04
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay ($\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$) (by GC)	$\geq 99.0 \%$	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,
99.0-102.0%

Lot No.: W12F013

Test	Limits	Results
Assay	99.0 - 102.0 %	99.67 %
Insoluble	0.01 % max	0.0079 %
Chloride	0.02 % max	Not detected
Sulfate	To pass test	Passes test
Aqueous solubility	To pass test	Passes test
Limit on Ferricyanide	To pass test	Passes test
Limit on Ferrocyanide	To pass test	Passes test

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This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.

W2817

REC. 04/02/2021

Product Name: Stearic acid, 98%, Thermo Scientific Chemicals
Catalog Number: A12244.14

CAS Number: 57-11-4
Molecular Formula: C₁₈H₃₆O₂
Molecular Weight: 284.48
InChI Key: QIQXTHQIDYTRH-UHFFFAOYSA-N
SMILES: CCCCCCCCCCCCCCCC(O)=O
Synonym: stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016
stearic acid, ion(1-) (8Cl) glycon TP glycon DP acidum stearinicum hydrofol acid 150

Product Specification

Appearance (Color): White
Form: Crystals or powder or crystalline powder or flakes or waxy solid
Assay (Silylated GC): ≥97.5%
Melting Point (clear melt): 67.0-74.0°C

Date Of Print: 11/30/2023

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.

W3009
rec. 2/27/2023 12

Product Name:

Hexadecane - ReagentPlus®, 99%

Certificate of Analysis

Product Number:

H6703

Batch Number:

SHBP8192

 $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

Test	Specification	Result
Appearance (Color)	Colorless or White	Colorless
Appearance (Form)	Liquid or Solid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Refractive index at 20 ° C	1.432 - 1.436	1.435
Purity (GC)	≥ 98.5 %	99.3 %
Color Test	≤ 20 APHA	< 5 APHA


Larry Coers, Director

Quality Control

Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



W3019
rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

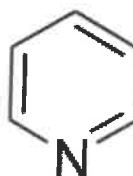
C₅H₅N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 99.75 %	99.99 %
Water (by Karl Fischer)	≤ 0.003 %	0.002 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001 %


Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



Certificate of Analysis

Product information

Product	pH-Fix 0.3-2.3
REF	92180
LOT	80A0441
Expiration date:	29.02.2028
Date of examination:	23.01.2024
Gradation:	pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantor™**



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
------	---------------	--------

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in cursive script that reads 'Jamie Ethier'.
Jamie Ethier
Vice President Global Quality

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



M6186

Reciev Date :- 08/06/25

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities - Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities - Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities - Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantorsm**

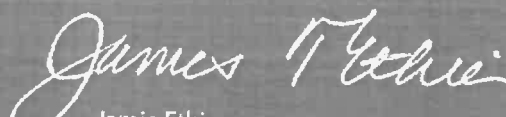


Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Sodium Phosphate, Monobasic, Monohydrate,
Crystal
BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)



Material No.: 3818-05
Batch No.: 0000225799
Manufactured Date: 2018/12/05
Retest Date: 2025/12/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$)	98.0 – 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 – 4.5	4.3
Insoluble Matter	≤ 0.01 %	< 0.01
Chloride (Cl)	≤ 5 ppm	< 5
ACS – Sulfate (SO_4)	≤ 0.003 %	< 0.003
Calcium (Ca)	≤ 0.005 %	< 0.005
Potassium (K)	≤ 0.01 %	< 0.01
Heavy Metals (as Pb)	≤ 0.001 %	< 0.001
Trace Impurities – Iron (Fe)	≤ 0.001 %	< 0.001

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: IN
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

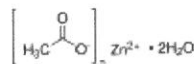
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis

Product Name:

Zinc acetate dihydrate - ACS reagent, $\geq 98\%$

Product Number: 383058
Batch Number: MKCQ9159
Brand: SIGALD
CAS Number: 5970-45-6
MDL Number: MFCD00066961
Formula: $C_4H_6O_4Zn \cdot 2H_2O$
Formula Weight: 219.51 g/mol
Quality Release Date: 06 JAN 2022



W2926
open 7/5/22
received
on 7/5/22

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystal or Chunk(s)	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter	$\leq 0.005\%$	0.003 %
Calcium (Ca)	$\leq 0.005\%$	0.003 %
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 5 ppm
Potassium (K)	$\leq 0.01\%$	0.00 %
Magnesium (Mg)	$\leq 0.005\%$	0.003 %
Sodium (Na)	$\leq 0.05\%$	0.03 %
Lead (Pb)	$\leq 0.002\%$	$< 0.001\%$
pH	6.0 - 7.0	6.1
Sulfate (SO ₄)	$\leq 0.005\%$	$< 0.005\%$
Complexometric EDTA	98.0 - 101.0 %	100.3 %
Meets ACS Requirements	Meets Requirements	Meets Requirements


Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.: A12244
Product: Stearic acid, 98%
Lot No.: U23E020

Appearance White flakes
Assay 98.7 %

This document has been electronically generated and does not require a signature.

Order our products online www.alfa.com

ThermoFisher
S C I E N T I F I C

**RICCA CHEMICAL COMPANY®**

1490 Lammers Pike

Batesville, IN 47006

<http://www.riccachemical.com>

1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

W3093
094121
04/03/2024
16

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)**Lot Number:** 4401F99**Product Number:** 1551**Manufacture Date:** JAN 08, 2024**Expiration Date:** DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (01/08/2024)

Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --
Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



Certificate of Analysis



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	Molecular Weight	372.24

TEST	SPECIFICATION		RESULT
	MIN	MAX	
ASSAY (DRIED BASIS)	99.0	101.0 %	99.5 %
pH OF A 5% SOLUTION @ 25°C	4.0	6.0	4.6
LOSS ON DRYING	8.7	11.4 %	8.90 %
CALCIUM (Ca)	NO PRECIPITATE IS FORMED		NO PRECIPITATE IS FORMED
ELEMENTAL IMPURITIES:			.
NICKEL (Ni)	AS REPORTED		<0.3 ppm
CHROMIUM (Cr)	AS REPORTED		<0.3 ppm
NITRILOTRIACETIC ACID[n[(HOCOCH ₂) ₃ N]		0.1 %	<0.10 %
IDENTIFICATION A	MATCHES REFERENCE		MATCHES REFERENCE
IDENTIFICATION B	RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION		RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION
IDENTIFICATION C	MEETS THE REQUIREMENTS FOR SODIUM		MEETS THE REQUIREMENTS FOR SODIUM
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			10-JUL-2026
DATE OF MANUFACTURE			11-JUL-2023
APPEARANCE			WHITE CRYSTALLINE POWDER
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT
MONOGRAPH EDITION			USP 2024

Certificate of Analysis Results Entered By:

CACEVEDO
Charmian Acevedo
22-MAY-24 08:12:30

Certificate of Analysis Results Approved By:

GHERRERA
Genaro Herrera
22-MAY-24 12:32:01

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

W3139 Received on 9/9/24 by IZ

Product No.: A12044
Product: Chloramine-T trihydrate, 98%
Lot No.: 10239484

Appearance:	White powder
Melting Point:	166°C(dec)
Assay (Iodometric titration):	100.5%
Identification (FTIR):	Conforms

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Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.



Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Starch, soluble	9005-84-9	ACS
Salicylic Acid	69-72-7	ACS

Test	Specification	Result
Appearance	White translucent liquid	Passed
Suitability for Use	Colorless (Iodine absent) - Blue (Iodine present)	Passed

Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-CI B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-CI C)
Starch Indicator	EPA (345.1)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
8000-1	4 L natural poly	24 months
8000-16	500 mL natural poly	24 months
8000-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

A handwritten signature in blue ink that reads "Paul Brandon". The signature is fluid and cursive, with the first name "Paul" and last name "Brandon" clearly distinguishable.

Paul Brandon (08/28/2024)
Production Manager

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Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C**Lot Number:** 2411E26**Product Number:** 1493**Manufacture Date:** NOV 11, 2024**Expiration Date:** OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	10	15	20	25	30	35	40	45	50
pH	1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Material	BDH9260-500G
Material Description	BDH POTASS HYDRGN PHTHLTE 500G
Grade	ACS GRADE
Batch	24H0956262
Reassay Date	04/28/2026
CAS Number	877-24-7
Molecular Formula	HOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White crystals.	White crystals.
Assay (dried basis)	99.95 - 100.05 %	99.98 %
Chlorine Compounds	<= 0.003 %	<0.003 %
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm
Insoluble Matter	<= 0.005 %	0.003 %
Iron	<= 5 ppm	<5 ppm
pH (0.05M, Water) @25C	4.00 - 4.02	4.00
Sodium	<= 0.005 %	<0.005 %
Sulfur Compounds	<= 0.002 %	<0.002 %

Internal ID #: 322

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

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Certificate of Analysis

W21758 58

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 2024

Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	Specification	Result
Appearance	Red liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.008	0.02	185i, 186-I-g, 186-II-g

Specification	Reference
Commercial Buffer Solutions	
Buffer B	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1501-16	500 mL natural poly	24 months
1501-2.5	10 L Cubitainer®	24 months
1501-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.



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Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result
Appearance	Blue liquid	Passed

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.009	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	
Buffer C	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1601-1	4 L natural poly	18 months
1601-16	500 mL natural poly	18 months
1601-1CT	4 L Cubitainer®	18 months
1601-2.5	10 L Cubitainer®	18 months
1601-32	1 L natural poly	18 months
1601-5	20 L Cubitainer®	18 months

Version: 1.3

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

Certificate of Analysis



Material	BDH9208-500G
Material Description	BDH AMMONIUM CHLORIDE ACS 500G
Grade	U S P REAGENT (ACS GRADE)
Batch	24L0356561
Reassay Date	08/31/2027
CAS Number	12125-02-9
Molecular Formula	NH ₄ Cl
Molecular Mass	53.49
Date of Manufacture	08/01/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White granular powder	White granular powder
Calcium	<= 0.001 %	0.001 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0002 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.0002 %	<0.0002 %
Magnesium	<= 0.0005 %	0.0001 %
pH (5%, Water) @25C	4.5 - 5.5	4.8
Phosphate	<= 0.0002 %	<0.0002 %
Purity	>= 99.5 %	99.8 %
Residue on Ignition	<= 0.01 %	0.003 %
Sulfate	<= 0.002 %	<0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

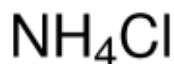
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

W3196 Received on 03/19/2025 by IZ

Certificate of Analysis

Product Name:

Ammonium chloride - ACS reagent, ≥99.5%



Product Number: 213330
Batch Number: MKCV1009
Brand: SIGALD
CAS Number: 12125-02-9
MDL Number: MFCD00011420
Formula: H4ClN
Formula Weight: 53.49 g/mol
Quality Release Date: 23 OCT 2023
Recommended Retest Date: SEP 2026

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Titration by AgNO ₃	≥ 99.5 %	100.2 %
pH	4.5 - 5.5	4.9
@ 25 Deg c (5% Solution)		
Insoluble Matter	≤ 0.005 %	0.001 %
10%, H ₂ O		
Residue on ignition (Ash)	≤ 0.01 %	< 0.01 %
Calcium (Ca)	≤ 0.001 %	< 0.001 %
Magnesium (Mg)	≤ 5 ppm	1 ppm
Heavy Metals	≤ 5 ppm	< 1 ppm
by ICP		
Iron (Fe)	≤ 2 ppm	< 1 ppm
Phosphate (PO ₄)	≤ 2 ppm	< 2 ppm
Sulfate (SO ₄)	≤ 0.002 %	< 0.002 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
3 Years		



Larry Coers, Director

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Product Number: 213330
Batch Number: MKCV1009

Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C**Lot Number:** 2504F20**Product Number:** 1615**Manufacture Date:** APR 08, 2025**Expiration Date:** SEP 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

°C	15	20	25	30	35	40
pH	12.35	12.17	11.99	11.78	11.62	11.46

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.009	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (04/08/2025)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

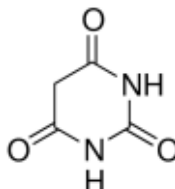
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Certificate of Analysis

Product Name:

Barbituric acid - ReagentPlus®, 99%

Product Number: 185698
Batch Number: WXBFB3271V
Brand: SIAL
CAS Number: 67-52-7
Formula: C₄H₄N₂O₃
Formula Weight: 128,09 g/mol
Quality Release Date: 16 MAY 2024



Test	Specification	Result
Appearance (Colour)	White to Off-White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms to Structure	Conforms
Purity (Titration by NaOH)	98.5 - 101.5 %	100.4 %
GC (area %)	≥ 98 %	100 %
VPCT		



Kang Chen
Quality Manager
Wuxi, China CN

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





Material	BDHVBDH7206-1
Material Description	IODINE SOLUTION 0.025N
Lot	25A2461008
Expires end of	2029-Jan-20
Molecular mass	0
Last Quality Control	2025-Jan-24
Date of manufacture	2025-Jan-21
Made in	United States
Manufacturer Source Batch	MK25A21527

Additional information

Characteristics	Specifications	Measured values
Prepared to formulation on file	Confirmed	Confirmed
Appearance	Passes Test	Passes Test
Normality, N	0.0200 - 0.0300	0.0268

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Michelle Bales - Sr. Manager Quality Assurance
 Avantor Performance Materials, LLC

For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.

VWR International LLC, Radnor Corporate Center, Building One, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA.

VWR International bv, Haasrode Research Park Zone 2020, Geldenaaksebaan 464, 3001 Leuven, Belgium

BDHVBDH72 25A2461008 Page 1 / 1

Certificate of Analysis

Cyanide Standard, 1000 ppm CN⁻

Lot Number: 1505H73

Product Number: 2543

Manufacture Date: MAY 08, 2025

Expiration Date: NOV 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN ⁻)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN ⁻)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN ⁻)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



Ernest Mahan (05/08/2025)
Plant Manager

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Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 2504D34

Product Number: 1551

Manufacture Date: APR 03, 2025

Expiration Date: MAR 2027

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result
Appearance	Yellow liquid	Passed *Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.003	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-20	20 x 20 mL pack	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (04/03/2025)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Certificate Of Analysis



Date of Release: 4/8/2025

Name: **Potassium Hydrogen Phthalate**

ACS

Item No: **PX1476 All Sizes**

Lot / Batch No: **2025040493**

Country of Origin: **USA**

Item	Specifications	Analysis
Assay (Dried Basis)	99.95-100.05%	99.98%
Chlorine compounds (as Cl)	0.003% max.	<0.003%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Insoluble Matter	0.005% max.	<0.005%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.05m solution @ 25.0C	4.00-4.02	4.00
Sodium (Na)	0.005% max.	<0.005%
Sulfur compounds (as S)	0.002% max.	<0.002%

Joe Schoellkopf

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0

Certificate of Analysis

Product Name:

Formaldehyde solution - ACS reagent, 37 wt. % in H₂O, contains 10-15% Methanol as stabilizer (to prevent polymerization)

Product Number: 252549

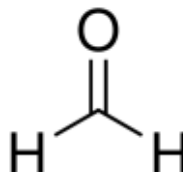
Batch Number: MKCW7614

Brand: SIAL

MDL Number: MFCD00003274

Quality Release Date: 05 DEC 2024

Recommended Retest Date: DEC 2026



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Titration by H ₂ SO ₄	36.5 - 38.0 %	36.6 %
Residue on ignition (Ash)	≤ 0.005 %	0.004 %
Color Test	≤ 10 APHA	5 APHA
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 1 ppm
Heavy Metals	≤ 5 ppm	2 ppm
by ICP-OES		
Sulfate (SO ₄)	< = 0.002%	< = 0.002%
Titrateable Acid (meq/g)	≤ 0.006	< 0.006
Note	Confirmed	Conforms
Stabilized with 10% to 15% Methanol		
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
2 Years		

Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2506M51**Product Number:** 7495.5**Manufacture Date:** JUN 18, 2025**Expiration Date:** DEC 2025

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability.
When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

Name	CAS#	Grade
Water	7732-18-5	Commercial
Sodium Hypochlorite	7681-52-9	Commercial

Test	Specification	Result	NIST SRM#
Appearance	Colorless to greenish-yellow liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	4.75-5.25 % (w/w) Cl ₂	5.17 % (w/w) Cl ₂	136

Specification	Reference
Sodium Hypochlorite, 5%	APHA (4500-NH3 F)
Sodium Hypochlorite	ASTM (D 4785)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7495.5-1	4 L black poly	6 months
7495.5-16	500 mL amber poly	6 months
7495.5-32	1 L amber poly	6 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (06/18/2025)
Operations Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



Part of TCP Analytical Group

Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: June 25, 2025

Lot Number: **45060288**

Expiration Date: December 24, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.000mg/mL
Concentration (CN)	990 - 1,010ppm	1,000ppm
Traceable to NIST SRM	Report	999b

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL org	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control
20250703 15:30:45ahoffman-0-0

ISO9001:2015 Registration #0306-01

W 3228

W 3229

W 3230

Rec. on 7/11/25 by 12



environmental
express®

2345A Charleston Regional
Charleston, South Carolina 29492
environmentalexpress.com
+1 843.881.6560

May 12, 2025

CERTIFICATE OF ANALYSIS

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable, quality results.

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20th, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

<u>Cat. No.</u>	<u>Lot No.</u>	<u>Product Description</u>	<u>Expiration Date</u>
B1010	5GE0517	COD Reagent Vials, 0 - 150 ppm	May-30

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantorsTM**



W3240
JP
07/15/2025
07/15/2025

Material No.: 9262-03
Batch No.: 25C0362006
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 250904J

Product Number: 7900

Manufacture Date: SEP 03, 2025

Expiration Date: FEB 2027

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Iodate/Starch)	0.02499-0.02501 N at 20°C	0.02501 N at 20°C	136

Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-CI B)
Standard Sodium Thiosulfate Titrant	APHA (4500-O C)
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA (5530 C)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-32	1 L natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (09/03/2025)
Operations Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137589

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3368-06	OUTSIDE-DUMPSTER	1	1.12	10.63	11.75	8.28	67.4	
Q3368-07	PRESS-SLUDGE	2	1.18	10.30	11.48	7.89	65.1	
Q3393-01	PR132-S10-000022-20251017	3	1.17	10.44	11.61	7.02	56.0	
Q3393-02	PR132-S10-022047-20251017	4	1.14	10.48	11.62	6.8	54.0	
Q3393-03	PR132-S08-013038-20251017	5	1.11	10.85	11.96	6.84	52.8	
Q3393-04	PR132-S06-000021-20251017	6	1.13	10.50	11.63	7.03	56.2	
Q3393-05	PR132-S08-000013-20251017	7	1.12	10.53	11.65	6.6	52.0	
Q3395-01	PR132-S09-000051-20251017	8	1.15	10.48	11.63	6.69	52.9	
Q3395-02	PR132-S07-000102-20251017	9	1.14	10.21	11.35	6.03	47.9	
Q3395-03	Q3395-02MS	10	1.14	10.21	11.35	6.03	47.9	
Q3395-04	Q3395-02MSD	11	1.14	10.21	11.35	6.03	47.9	
Q3395-05	PR132-S07-102116-20251017	12	1.13	10.12	11.25	6.33	51.4	
Q3395-06	PR132-COMP03-20251017	13	1.15	10.74	11.89	8.65	69.8	
Q3395-07	PR132-S08-038048-20251017	14	1.15	10.68	11.83	7.41	58.6	
Q3396-01	A	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3396-02	B	16	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3396-03	C	17	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3397-01	TP-7-WC	18	1.14	10.67	11.81	10.66	89.2	
Q3397-02	TP-7-EPH	19	1.18	10.18	11.36	9.81	84.8	
Q3397-03	TP-7-VOC	20	1.14	10.66	11.8	10.55	88.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

2B13758P

WorkList Name : % SOLID-102025 WorkList ID : 192564 Department : Wet-Chemistry Date : 10-20-2025 15:56:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-06	OUTSIDE-DUMPSTER	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3368-07	PRESS-SLUDGE	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3393-01	PR132-S10-000022-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3393-02	PR132-S10-022047-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3393-03	PR132-S08-013038-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3393-04	PR132-S06-000021-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3393-05	PR132-S08-000013-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-01	PR132-S09-000051-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-02	PR132-S07-000102-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-03	Q3395-02MS	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-04	Q3395-02MSD	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-05	PR132-S07-102116-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-06	PR132-COMP03-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-07	PR132-S08-038048-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3396-01	A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/17/2025	Chemtech -SO
Q3396-02	B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/17/2025	Chemtech -SO
Q3396-03	C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/17/2025	Chemtech -SO
Q3397-01	TP-7-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/18/2025	Chemtech -SO
Q3397-02	TP-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/18/2025	Chemtech -SO
Q3397-03	TP-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/18/2025	Chemtech -SO

Date/Time 10/20/25 16:20
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 10/20/25 17:40
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137700

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3368-13	OUTSIDE-DUMPSTER	1	1.12	10.63	11.75	8.28	67.4	
Q3368-14	PRESS-SLUDGE	2	1.18	10.30	11.48	7.89	65.1	
Q3482-01	WC-1	37	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3482-02	WC-2	38	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3482-03	WC-3	39	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3482-04	WC-4	40	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3482-05	WC-5	41	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3482-06	WC-6	42	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3482-07	WC-7	43	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3483-01	HW1025-PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
Q3483-02	HW1025-PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
Q3483-03	HW1025-PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
Q3483-04	HW1025-PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
Q3483-05	HW1025-PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
Q3483-06	HW1025-PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
Q3483-07	HW1025-PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
Q3483-08	HW1025-PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
Q3483-09	HW1025-PT-OGF-SOIL	11	1.00	1.00	2.00	2.00	100.0	
Q3483-10	HW1025-PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
Q3483-11	HW1025-PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
Q3483-12	HW1025-PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
Q3483-13	HW1025-PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
Q3483-14	HW1025-PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
Q3483-15	HW1025-PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
Q3483-16	HW1025-PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
Q3483-17	HW1025-PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
Q3483-18	HW1025-PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
Q3483-19	HW1025-PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137700

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3483-20	HW1025-PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
Q3483-21	HW1025-PT-CHLOR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
Q3483-22	HW1025-PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
Q3483-23	HW1025-PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
Q3483-25	HW1025-PT-NO2-SOIL	26	1.00	1.00	2.00	2.00	100.0	
Q3485-01	TR-04-102924	27	1.15	10.30	11.45	10.84	94.1	
Q3485-02	TR-04-102924-E2	28	1.19	10.30	11.49	10.77	93.0	
Q3486-01	TP3	29	1.17	10.45	11.62	11.07	94.7	
Q3486-02	TP3-E2	30	1.18	10.40	11.58	11.11	95.5	
Q3486-03	TP4	31	1.19	10.23	11.42	9.93	85.4	
Q3486-04	TP4-E2	32	1.17	10.52	11.69	10.09	84.8	
Q3486-05	TP5	33	1.17	10.65	11.82	10.02	83.1	
Q3486-06	TP5-E2	34	1.17	10.15	11.32	9.39	81.0	
Q3486-07	TP6	35	1.13	10.25	11.38	10.16	88.1	
Q3486-08	TP6-E2	36	1.16	10.48	11.64	10.32	87.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

8137100

WorkList Name : %1-102925 WorkList ID : 192745 Department : Wet-Chemistry Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-13	OUTSIDE-DUMPSTER	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3368-14	PRESS-SLUDGE	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3482-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-02	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-03	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-04	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-05	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-06	WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-07	WC-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3483-01	HW1025-PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-02	HW1025-PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-03	HW1025-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-04	HW1025-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-05	HW1025-PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-06	HW1025-PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-07	HW1025-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-08	HW1025-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-09	HW1025-PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-10	HW1025-PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-11	HW1025-PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-12	HW1025-PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO

Date/Time: 10/29/25 15:00
 Raw Sample Received by: 80 WC,
 Raw Sample Relinquished by: ACSM
 Date/Time: 10/29/25 17:30
 Raw Sample Received by: ACSM
 Raw Sample Relinquished by: 80 WC

WORKLIST(Hardcopy Internal Chain)

8137700

WorkList Name : %1-102925 WorkList ID : 192745 Department : Wet-Chemistry Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-13	HW1025-PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-14	HW1025-PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-15	HW1025-PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-16	HW1025-PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-17	HW1025-PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-18	HW1025-PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-19	HW1025-PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-20	HW1025-PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-21	HW1025-PT-CHLOR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-22	HW1025-PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-23	HW1025-PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-25	HW1025-PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3485-01	TR-04-102924	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/29/2025	Chemtech -SO
Q3485-02	TR-04-102924-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/29/2025	Chemtech -SO
Q3486-01	TP3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-02	TP3-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-03	TP4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-04	TP4-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-05	TP5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-06	TP5-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-07	TP6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/29/25 13:00
 Raw Sample Received by: SB WVC
 Raw Sample Relinquished by: CH(SM)

Date/Time 10/29/25
 Raw Sample Received by: CH(SM)
 Raw Sample Relinquished by: SB WVC

WORKLIST(Hardcopy Internal Chain)

10/29/25

WorkList Name : %1-102925

WorkList ID : 192745

Department : Wet-Chemistry

Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3486-08	TP6-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/29/25 15:00

Raw Sample Received by: SA WWC

Raw Sample Relinquished by: Cpl Sm

Date/Time

Raw Sample Received by: Cpl Sm

Raw Sample Relinquished by: SA ADC



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Aramark Uniforms
ADDRESS: 740 Frelinghuysen Ave
CITY: Newark STATE: NJ ZIP: 07114
ATTENTION: Jarrod Mills
PHONE: 973-824-1101 FAX: _____

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

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

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

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

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

1 2 3 4 5 6 7 8 9

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	Outside Dumpster	S		✓	10-16-25	1300	7										
2.	Press Sludge	I		✓	10-16-25	1304	7										
3.	Tank 1	I		✓	10-16-25	1308	7										
4.	Tank 2	I		✓	10-16-25	1312	7										
5.	Oil Sludge	I		✓	10-16-25	1315	7										
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 10-16-25 RECEIVED BY: 10-16-25
RELINQUISHED BY SAMPLER: 10-16-25 RECEIVED BY: 10-16-25
RELINQUISHED BY SAMPLER: 10-16-25 RECEIVED BY: 10-16-25

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: _____

Page _____ of _____ CLIENT: ☐ Hand Delivered ☐ Other _____
Shipment Complete ☐ YES ☐ NO



Outlook

RE: [WMSolutions.com] Profile 100601PAE (Vestis Uniform Services) has been returned to your drafts tab

From Barnes, Tommy <tommy.barnes@vestis.com>

Date Mon 10/6/2025 10:25 AM

To Vanegas, Jose <Jose.Vanegas@vestis.com>

Cc Dikos, Tom <tom.dikos@vestis.com>; Castillo Vasquez, Gustavo A. <gustavo.castillo@vestis.com>; Williams III, Jack <jack.williams@vestis.com>; Romain, Sobner <sobner.romain@vestis.com>

Jose,

I will complete Form 25R and also fix the section G of the profile.

Unfortunately, it looks like we need to run additional analysis on the sludge per the landfill.

Can you please call your lab (Alliance Technical Group 908-789-8900) and let them know you need to analyze your filter cake asap? It should be analyzed for the following:

- Oil & Grease (as received)
- Paint Filter Test
- Total PCBs (mg/kg)
- Total Solids (as received)
- Total Volatile Solids (as received)
- Ammonia-Nitrogen (ASTM Extraction - mg/L)
- Chemical Oxygen Demand (ASTM Extraction - mg/L)
- Oil & Grease (ASTM Extraction - mg/L)
- Total Solids (ASTM Extraction - mg/L)
- pH (ASTM Extraction)
- TCLP Copper
- TCLP Nickel
- TCLP Zinc
- TCLP Pesticides TCLP Herbicides

Thanks,

Tommy Barnes

Manager, Environmental Compliance

M: 317.910.4373

tommy.barnes@vestis.com | www.vestis.com



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From: Vanegas, Jose <Jose.Vanegas@vestis.com>

Sent: Monday, October 6, 2025 8:51 AM

To: Barnes, Tommy <tommy.barnes@vestis.com>

From: Barnes, Tommy <tommy.barnes@vestis.com>
Sent: Tuesday, October 28, 2025 3:02 PM
To: Yazmeen Gomez
Cc: Dikos, Tom; Vanegas, Jose
Subject: FW: SLUDGE ANALYZE (Section G)
Attachments: Summary Report Details For Project Monthly 2025-Q3368.; Summary Report Details For Project Monthly 2025-Q3368.

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Secured by Check Point

Yazmeen,
Thanks for taking my call. Per our discussion, the landfill is requesting the following additional analysis. It looks like the same list that was previously provided and included with the lab report.
Can you check to see if the analysis was already done?
If it wasn't, can you let us know if you have enough sample on hand to complete? We would also like to request a rush turn-around on the results if possible.

- Oil & Grease (as received)
 - Total Solids (as received)
 - Total Volatile Solids (as received)
 - Ammonia-Nitrogen (ASTM Extraction - mg/L)
 - Chemical Oxygen Demand (ASTM Extraction - mg/L)
 - Oil & Grease (ASTM Extraction - mg/L)
 - Total Solids (ASTM Extraction - mg/L)
 - pH (ASTM Extraction)
 - TCLP Copper
 - TCLP Nickel
 - TCLP Zinc
 - TCLP Pesticides
 - TCLP Herbicides

Thanks,

Tommy Barnes
Manager, Environmental Compliance
M: 317.910.4373
tommy.barnes@vestis.com | www.vestis.com



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From: Dikos, Tom <tom.dikos@vestis.com>
Sent: Tuesday, October 28, 2025 9:24 AM
To: Barnes, Tommy <tommy.barnes@vestis.com>
Subject: FW: SLUDGE ANALYZE (Section G)

Is this everything needed for the Newark profile renewal.

Could you please work with Jose to complete.

Thanks,

Tom Dikos
Director, Environmental Compliance
M: 708.567.0275
tom.dikos@vestis.com | www.vestis.com



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From: Yazmeen Gomez <yazmeen.gomez@alliancetg.com>
Sent: Monday, October 27, 2025 2:59 PM
To: Vanegas, Jose <Jose.Vanegas@vestis.com>
Cc: Barnes, Tommy <tommy.barnes@vestis.com>; Dikos, Tom <tom.dikos@vestis.com>; Castillo Vasquez, Gustavo A. <gustavo.castillo@vestis.com>; Romain, Sobner <sobner.romain@vestis.com>
Subject: RE: SLUDGE ANALYZE (Section G)

CAUTION: This email was sent from outside of Vestis. Please do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

Please see attached unsure if this has already been forwarded over to you.

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com    

From: Vanegas, Jose <Jose.Vanegas@vestis.com>
Sent: Thursday, October 23, 2025 11:48 AM
To: Yazmeen Gomez <yazmeen.gomez@alliancetg.com>
Cc: Barnes, Tommy <tommy.barnes@vestis.com>; Dikos, Tom <tom.dikos@vestis.com>; Castillo Vasquez, Gustavo A. <gustavo.castillo@vestis.com>; Romain, Sobner <sobner.romain@vestis.com>
Subject: Re: SLUDGE ANALYZE (Section G)

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Secured by Check Point

Good morning, Yazmeen:
Could you please send me the results of the sludge analysis?

Thank you.

Jose Vanegas
Industrial Maintenance Manager
740 Frelinghuysen Avenue
Newark, NJ 07114
P: (973) 824-1101
C: (908) 323-9050
jose.vanegas@vestis.com



From: Vanegas, Jose
Sent: Wednesday, October 8, 2025 10:13 AM
To: yazmeen.gomez@alliancetg.com <yazmeen.gomez@alliancetg.com>
Cc: Barnes, Tommy <tommy.barnes@vestis.com>; Dikos, Tom <tom.dikos@vestis.com>; Castillo Vasquez, Gustavo A. <gustavo.castillo@vestis.com>; Romain, Sobner <sobner.romain@vestis.com>
Subject: SLUDGE ANALYZE (Section G)

Good morning, Yazmeen:
Our company requires your technical services for a sludge analysis. Could you please send one of your technicians for this analysis, ASAP. (See the attachment)

Thank you.

Jose Vanegas
Industrial Maintenance Manager
740 Frelinghuysen Avenue
Newark, NJ 07114
P: (973) 824-1101
C: (908) 323-9050
jose.vanegas@vestis.com



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New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312