

Cover Page

Order ID : Q2487

Project ID : Construction of Shafts 17B-18B - PN 220084

Client : Walsh Construction Company II, LLC

Lab Sample Number

Client Sample Number

Q2487-01	G4(1.5)
Q2487-02	G4(10)
Q2487-03	G3(9)
Q2487-04	G3(3)
Q2487-05	G2(2.5)
Q2487-06	G2(9)
Q2487-07	G1(4.5)
Q2487-08	G1(10)
Q2487-09	G4(0-6)
Q2487-10	G4(6-12)
Q2487-11	G3(0-6)
Q2487-12	G3(6-12)
Q2487-13	G2(0-6)
Q2487-14	G2(6-12)
Q2487-15	G1(0-6)
Q2487-16	G1(6-12)
Q2487-17	G4(1.5)
Q2487-18	G4(10)
Q2487-19	G3(9)
Q2487-20	G3(3)
Q2487-21	G2(2.5)
Q2487-22	G2(9)
Q2487-23	G1(10)
Q2487-24	G1(4.5)

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 7/16/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2487

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRATHA PARGHI

Date: 07/16/2025

LAB CHRONICLE

OrderID:	Q2487	OrderDate:	7/2/2025 10:05:00 AM
Client:	Walsh Construction Company II, LLC	Project:	Construction of Shafts 17B-18B - PN 220084
Contact:	Jesse A. Sylvestri	Location:	A22,A53,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2487-09	G4(0-6)	SOIL			07/01/25 11:00			07/01/25
			Ammonia	SM4500-NH3		07/08/25	07/09/25 10:14	
			COD	SM5220 D			07/08/25 15:02	
			Hexavalent Chromium	7196A		07/08/25	07/08/25 15:54	
			Oil and Grease	9071B			07/10/25 14:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		07/07/25	07/09/25 12:29	
			Trivalent Chromium	6010D			07/09/25 18:12	
			TS	SM2540 B			07/07/25 11:00	
			TVS	160.4			07/07/25 16:00	
			Cyanide	9012B		07/07/25	07/07/25 14:35	
			Paint Filter	9095B			07/07/25 08:15	
Q2487-10	G4(6-12)	SOIL			07/01/25 11:10			07/01/25
			Ammonia	SM4500-NH3		07/08/25	07/09/25 10:14	
			COD	SM5220 D			07/08/25 15:04	

LAB CHRONICLE

Q2487-10DL	G4(6-12)DL	SOIL	Hexavalent Chromium	7196A	07/08/25	07/08/25 15:55
			Oil and Grease	9071B		07/10/25 14:30
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 12:29
			Trivalent Chromium	6010D		07/09/25 18:17
			TS	SM2540 B		07/07/25 11:00
			TVS	160.4		07/07/25 16:00
			Cyanide	9012B	07/07/25	07/07/25 14:35
			Paint Filter	9095B		07/07/25 08:31
					07/01/25 11:10	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 13:32
Q2487-11	G3(0-6)	SOIL			07/01/25 12:35	07/01/25
			Ammonia	SM4500-NH3	07/08/25	07/09/25 10:14
			COD	SM5220 D		07/08/25 15:05
			Hexavalent Chromium	7196A	07/08/25	07/08/25 15:56
			Oil and Grease	9071B		07/10/25 14:30
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 12:29

LAB CHRONICLE

Q2487-12	G3(6-12)	SOIL	Trivalent Chromium	6010D		07/09/25 18:21
			TS	SM2540 B		07/07/25 11:00
			TVS	160.4		07/07/25 16:00
			Cyanide	9012B	07/07/25	07/07/25 14:35
			Paint Filter	9095B		07/07/25 08:38
Q2487-12DL	G3(6-12)DL	SOIL			07/01/25 12:45	07/01/25
			Ammonia	SM4500-NH3	07/08/25	07/09/25 10:25
			COD	SM5220 D		07/08/25 15:05
			Hexavalent Chromium	7196A	07/08/25	07/08/25 15:57
			Oil and Grease	9071B		07/10/25 14:30
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 12:29
			Trivalent Chromium	6010D		07/09/25 18:26
			TS	SM2540 B		07/07/25 11:00
			TVS	160.4		07/07/25 16:00
			Cyanide	9012B	07/07/25	07/07/25 14:35
			Paint Filter	9095B		07/07/25 08:45
					07/01/25 12:45	07/01/25

LAB CHRONICLE

Q2487-13	G2(0-6)	SOIL	TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 13:32	07/01/25 13:50	07/01/25
			Ammonia	SM4500-NH3	07/08/25	07/09/25 10:25		
			COD	SM5220 D		07/08/25 15:06		
			Hexavalent Chromium	7196A	07/08/25	07/08/25 15:58		
			Oil and Grease	9071B		07/10/25 14:30		
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 12:40		
			Trivalent Chromium	6010D		07/09/25 18:31		
			TS	SM2540 B		07/07/25 11:00		
			TVS	160.4		07/07/25 16:00		
			Cyanide	9012B	07/07/25	07/07/25 14:35		
			Paint Filter	9095B		07/07/25 08:52		
			Ammonia	SM4500-NH3	07/08/25	07/09/25 10:25		
			COD	SM5220 D		07/08/25 15:07		
			Hexavalent Chromium	7196A	07/08/25	07/08/25 15:59		
			Oil and Grease	9071B		07/10/25 14:30		
Q2487-14	G2(6-12)	SOIL					07/01/25 14:00	07/01/25

LAB CHRONICLE

Q2487-14DL	G2(6-12)DL	SOIL	TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 12:40	07/01/25 14:00	07/01/25
			Trivalent Chromium	6010D		07/09/25 21:03		
			TS	SM2540 B		07/07/25 11:00		
			TVS	160.4		07/07/25 16:00		
			Cyanide	9012B	07/07/25	07/07/25 14:41		
			Paint Filter	9095B		07/07/25 09:00		
Q2487-15	G1(0-6)	SOIL	TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 13:32	07/01/25 14:10	07/01/25
			Ammonia	SM4500-NH3	07/08/25	07/09/25 10:25		
			COD	SM5220 D		07/08/25 15:08		
			Hexavalent Chromium	7196A	07/08/25	07/08/25 16:00		
			Oil and Grease	9071B		07/10/25 14:30		
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	07/07/25	07/09/25 12:40		
			Trivalent Chromium	6010D		07/09/25 17:14		
			TS	SM2540 B		07/07/25 11:00		

LAB CHRONICLE

Q2487-16	G1(6-12)	SOIL	TVS	160.4			07/07/25 16:00	07/01/25 14:20	07/01/25
			Cyanide	9012B		07/07/25	07/07/25 14:41		
			Paint Filter	9095B			07/07/25 09:07		
			Ammonia	SM4500-NH3		07/08/25	07/09/25 10:25		
			COD	SM5220 D			07/08/25 15:08		
			Hexavalent Chromium	7196A		07/08/25	07/08/25 16:01		
			Oil and Grease	9071B			07/10/25 14:30		
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		07/07/25	07/09/25 12:40		
			Trivalent Chromium	6010D			07/09/25 19:03		
			TS	SM2540 B			07/07/25 11:00		
			TVS	160.4			07/07/25 16:00		
			Cyanide	9012B		07/07/25	07/07/25 14:41		
			Paint Filter	9095B			07/07/25 09:15		



SAMPLE DATA

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 11:00
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G4(0-6)	SDG No.:	Q2487
Lab Sample ID:	Q2487-09	Matrix:	SOIL
		% Solid:	87.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.50	U	1	2.50	5.60	mg/Kg	07/08/25 13:00	07/09/25 10:14	SM 4500-NH3 B plus G-21
COD	615		1	91.1	542	mg/Kg		07/08/25 15:02	SM 5220 D-11
Cyanide	0.047	U	1	0.047	0.28	mg/Kg	07/07/25 10:05	07/07/25 14:35	9012B
Hexavalent Chromium	0.078	U	1	0.078	0.45	mg/Kg	07/08/25 12:40	07/08/25 15:54	7196A
Oil and Grease	2810		1	6.66	28.6	mg/Kg		07/10/25 14:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		07/07/25 08:15	9095B
TKN	240		1	10.4	27.6	mg/Kg	07/07/25 10:45	07/09/25 12:29	SM4500-N Org C-21 plus NH3 B plus G-21
Trivalent Chromium	13.3		1	0.57	0.57	mg/Kg		07/09/25 18:12	6010D
TS	87.6		1	1.00	5.00	%		07/07/25 11:00	SM 2540 B-20
TVS	3.70	J	1	1.00	10.0	%		07/07/25 16:00	160.4

Comments:

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

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 11:10
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G4(6-12)	SDG No.:	Q2487
Lab Sample ID:	Q2487-10	Matrix:	SOIL
		% Solid:	72.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	12.8		1	3.00	6.80	mg/Kg	07/08/25 13:00	07/09/25 10:14	SM 4500-NH3 B plus G-21
COD	115	U	1	115	682	mg/Kg		07/08/25 15:04	SM 5220 D-11
Cyanide	0.057	U	1	0.057	0.34	mg/Kg	07/07/25 10:05	07/07/25 14:35	9012B
Hexavalent Chromium	0.096	U	1	0.096	0.55	mg/Kg	07/08/25 12:40	07/08/25 15:55	7196A
Oil and Grease	96.3		1	7.99	34.4	mg/Kg		07/10/25 14:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		07/07/25 08:31	9095B
TKN	3070	OR	1	12.4	33.1	mg/Kg	07/07/25 10:45	07/09/25 12:29	SM4500-N Org C-21 plus NH3 B plus G-21
Trivalent Chromium	18.2		1	0.69	0.69	mg/Kg		07/09/25 18:17	6010D
TS	67.6		1	1.00	5.00	%		07/07/25 11:00	SM 2540 B-20
TVS	7.70	J	1	1.00	10.0	%		07/07/25 16:00	160.4

Comments:

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 11:10
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G4(6-12)DL	SDG No.:	Q2487
Lab Sample ID:	Q2487-10DL	Matrix:	SOIL
		% Solid:	72.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
TKN	1910	D	10	124	331	mg/Kg	07/07/25 10:45	07/09/25 13:32	SM4500-N Org C-21 plus NH3 B plus G-21

Comments:

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 12:35
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G3(0-6)	SDG No.:	Q2487
Lab Sample ID:	Q2487-11	Matrix:	SOIL
		% Solid:	91.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.30	U	1	2.30	5.30	mg/Kg	07/08/25 13:00	07/09/25 10:14	SM 4500-NH3 B plus G-21
COD	218	J	1	86.2	512	mg/Kg		07/08/25 15:05	SM 5220 D-11
Cyanide	0.046	U	1	0.046	0.27	mg/Kg	07/07/25 10:05	07/07/25 14:35	9012B
Hexavalent Chromium	0.076	U	1	0.076	0.43	mg/Kg	07/08/25 12:40	07/08/25 15:56	7196A
Oil and Grease	5810		1	6.36	27.4	mg/Kg		07/10/25 14:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		07/07/25 08:38	9095B
TKN	174		1	10.2	27.1	mg/Kg	07/07/25 10:45	07/09/25 12:29	SM4500-N Org C-21 plus NH3 B plus G-21
Trivalent Chromium	85.8		1	0.55	0.55	mg/Kg		07/09/25 18:21	6010D
TS	92.0		1	1.00	5.00	%		07/07/25 11:00	SM 2540 B-20
TVS	4.00	J	1	1.00	10.0	%		07/07/25 16:00	160.4

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 12:45
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G3(6-12)	SDG No.:	Q2487
Lab Sample ID:	Q2487-12	Matrix:	SOIL
		% Solid:	70.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	49.8		1	3.10	7.10	mg/Kg	07/08/25 13:00	07/09/25 10:25	SM 4500-NH3 B plus G-21
COD	114	U	1	114	678	mg/Kg		07/08/25 15:05	SM 5220 D-11
Cyanide	0.058	U	1	0.058	0.34	mg/Kg	07/07/25 10:05	07/07/25 14:35	9012B
Hexavalent Chromium	0.099	U	1	0.099	0.56	mg/Kg	07/08/25 12:40	07/08/25 15:57	7196A
Oil and Grease	71.1		1	8.26	35.5	mg/Kg		07/10/25 14:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		07/07/25 08:45	9095B
TKN	1270	OR	1	12.9	34.2	mg/Kg	07/07/25 10:45	07/09/25 12:29	SM4500-N Org C-21 plus NH3 B plus G-21
Trivalent Chromium	24.9		1	0.71	0.71	mg/Kg		07/09/25 18:26	6010D
TS	72.2		1	1.00	5.00	%		07/07/25 11:00	SM 2540 B-20
TVS	5.50	J	1	1.00	10.0	%		07/07/25 16:00	160.4

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 12:45
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G3(6-12)DL	SDG No.:	Q2487
Lab Sample ID:	Q2487-12DL	Matrix:	SOIL
		% Solid:	70.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
TKN	1350	D	5	64.4	171	mg/Kg	07/07/25 10:45	07/09/25 13:32	SM4500-N Org C-21 plus NH3 B plus G-21

Comments: _____

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MDL = Method Detection Limit

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 13:50
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G2(0-6)	SDG No.:	Q2487
Lab Sample ID:	Q2487-13	Matrix:	SOIL
		% Solid:	89.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.40	U	1	2.40	5.40	mg/Kg	07/08/25 13:00	07/09/25 10:25	SM 4500-NH3 B plus G-21
COD	87.5	U	1	87.5	520	mg/Kg		07/08/25 15:06	SM 5220 D-11
Cyanide	0.045	U	1	0.045	0.27	mg/Kg	07/07/25 10:05	07/07/25 14:35	9012B
Hexavalent Chromium	0.077	U	1	0.077	0.44	mg/Kg	07/08/25 12:40	07/08/25 15:58	7196A
Oil and Grease	1870		1	6.46	27.8	mg/Kg		07/10/25 14:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		07/07/25 08:52	9095B
TKN	242		1	10.4	27.6	mg/Kg	07/07/25 10:45	07/09/25 12:40	SM4500-N Org C-21 plus NH3 B plus G-21
Trivalent Chromium	18.6		1	0.56	0.56	mg/Kg		07/09/25 18:31	6010D
TS	90.9		1	1.00	5.00	%		07/07/25 11:00	SM 2540 B-20
TVS	4.20	J	1	1.00	10.0	%		07/07/25 16:00	160.4

Comments:

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

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 14:00
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G2(6-12)	SDG No.:	Q2487
Lab Sample ID:	Q2487-14	Matrix:	SOIL
		% Solid:	67.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	10.5		1	3.10	7.10	mg/Kg	07/08/25 13:00	07/09/25 10:25	SM 4500-NH3 B plus G-21
COD	154	J	1	117	697	mg/Kg		07/08/25 15:07	SM 5220 D-11
Cyanide	0.061	U	1	0.061	0.36	mg/Kg	07/07/25 10:05	07/07/25 14:41	9012B
Hexavalent Chromium	0.10	U	1	0.10	0.57	mg/Kg	07/08/25 12:40	07/08/25 15:59	7196A
Oil and Grease	1560		1	8.57	36.9	mg/Kg		07/10/25 14:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		07/07/25 09:00	9095B
TKN	1020	OR	1	13.5	35.9	mg/Kg	07/07/25 10:45	07/09/25 12:40	SM4500-N Org C-21 plus NH3 B plus G-21
Trivalent Chromium	37.6		1	0.74	0.74	mg/Kg		07/09/25 21:03	6010D
TS	68.9		1	1.00	5.00	%		07/07/25 11:00	SM 2540 B-20
TVS	7.80	J	1	1.00	10.0	%		07/07/25 16:00	160.4

Comments:

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

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 14:00
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G2(6-12)DL	SDG No.:	Q2487
Lab Sample ID:	Q2487-14DL	Matrix:	SOIL
		% Solid:	67.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
TKN	989	D	2	27.0	71.7	mg/Kg	07/07/25 10:45	07/09/25 13:32	SM4500-N Org C-21 plus NH3 B plus G-21

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 14:10
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G1(0-6)	SDG No.:	Q2487
Lab Sample ID:	Q2487-15	Matrix:	SOIL
		% Solid:	80.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.70	U	1	2.70	6.10	mg/Kg	07/08/25 13:00	07/09/25 10:25	SM 4500-NH3 B plus G-21
COD	101	U	1	101	602	mg/Kg		07/08/25 15:08	SM 5220 D-11
Cyanide	0.052	U	1	0.052	0.31	mg/Kg	07/07/25 10:05	07/07/25 14:41	9012B
Hexavalent Chromium	0.085	U	1	0.085	0.49	mg/Kg	07/08/25 12:40	07/08/25 16:00	7196A
Oil and Grease	11700		1	7.19	30.9	mg/Kg		07/10/25 14:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		07/07/25 09:07	9095B
TKN	475		1	11.4	30.4	mg/Kg	07/07/25 10:45	07/09/25 12:40	SM4500-N Org C-21 plus NH3 B plus G-21
Trivalent Chromium	26.3		1	0.62	0.62	mg/Kg		07/09/25 17:14	6010D
TS	93.5		1	1.00	5.00	%		07/07/25 11:00	SM 2540 B-20
TVS	20.2		1	1.00	10.0	%		07/07/25 16:00	160.4

Comments:

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

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	07/01/25 14:20
Project:	Construction of Shafts 17B-18B - PN 220084	Date Received:	07/01/25
Client Sample ID:	G1(6-12)	SDG No.:	Q2487
Lab Sample ID:	Q2487-16	Matrix:	SOIL
		% Solid:	93.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.70	J	1	2.30	5.30	mg/Kg	07/08/25 13:00	07/09/25 10:25	SM 4500-NH3 B plus G-21
COD	86.7	U	1	86.7	515	mg/Kg		07/08/25 15:08	SM 5220 D-11
Cyanide	0.052	J	1	0.044	0.26	mg/Kg	07/07/25 10:05	07/07/25 14:41	9012B
Hexavalent Chromium	0.073	U	1	0.073	0.42	mg/Kg	07/08/25 12:40	07/08/25 16:01	7196A
Oil and Grease	1540		1	6.22	26.8	mg/Kg		07/10/25 14:30	SW9071B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		07/07/25 09:15	9095B
TKN	191		1	9.90	26.3	mg/Kg	07/07/25 10:45	07/09/25 12:40	SM4500-N Org C-21 plus NH3 B plus G-21
Trivalent Chromium	120		1	0.54	0.54	mg/Kg		07/09/25 19:03	6010D
TS	83.6		1	1.00	5.00	%		07/07/25 11:00	SM 2540 B-20
TVS	1.00	U	1	1.00	10.0	%		07/07/25 16:00	160.4

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
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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: Walsh Construction Company II, LLC
Project: Construction of Shafts 17B-18B - PN 220084

SDG No.: Q2487
RunNo.: LB136387

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.097	0.099	98	90-110	07/07/2025
Sample ID: CCV1 Cyanide	mg/L	0.25	0.25	100	90-110	07/07/2025
Sample ID: CCV2 Cyanide	mg/L	0.25	0.25	100	90-110	07/07/2025
Sample ID: CCV3 Cyanide	mg/L	0.25	0.25	100	90-110	07/07/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q2487

Project: Construction of Shafts 17B-18B - PN 220084

RunNo.: LB136397

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.493	0.5	99	90-110	07/08/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.496	0.5	99	90-110	07/08/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	07/08/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.496	0.5	99	90-110	07/08/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC
Project: Construction of Shafts 17B-18B - PN 220084

SDG No.: Q2487
RunNo.: LB136399

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV COD	mg/L	50.962	50	102	95-105	05/28/2025
Sample ID: CCV1 COD	mg/L	50.962	50	102	95-105	07/08/2025
Sample ID: CCV2 COD	mg/L	49.946	50	100	95-105	07/08/2025
Sample ID: CCV3 COD	mg/L	50.962	50	102	95-105	07/08/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q2487

Project: Construction of Shafts 17B-18B - PN 220084

RunNo.: LB136405

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	0.99	1	99	90-110	07/09/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.94	1	94	90-110	07/09/2025
Sample ID: CCV2 Ammonia as N	mg/L	0.96	1	96	90-110	07/09/2025
Sample ID: CCV3 Ammonia as N	mg/L	1	1	100	90-110	07/09/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.96	1	96	90-110	07/09/2025
Sample ID: CCV5 Ammonia as N	mg/L	0.99	1	99	90-110	07/09/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q2487

Project: Construction of Shafts 17B-18B - PN 220084

RunNo.: LB136408

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	4.9	5	98	90-110	07/09/2025
Sample ID: CCV1 TKN	mg/L	4.9	5	98	90-110	07/09/2025
Sample ID: CCV2 TKN	mg/L	4.9	5	98	90-110	07/09/2025
Sample ID: CCV3 TKN	mg/L	4.9	5	98	90-110	07/09/2025
Sample ID: CCV4 TKN	mg/L	4.9	5	98	90-110	07/09/2025
Sample ID: CCV5 TKN	mg/L	4.9	5	98	90-110	07/09/2025

Initial and Continuing Calibration Verification

Client: Walsh Construction Company II, LLC

SDG No.: Q2487

Project: Construction of Shafts 17B-18B - PN 220084

RunNo.: LB136408

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
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Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC
Project: Construction of Shafts 17B-18B - PN 220084

SDG No.: Q2487
RunNo.: LB136387

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/07/2025
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/07/2025
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/07/2025
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/07/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC
Project: Construction of Shafts 17B-18B - PN 220084

SDG No.: Q2487
RunNo.: LB136397

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	07/08/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	07/08/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	07/08/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	07/08/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC
Project: Construction of Shafts 17B-18B - PN 220084

SDG No.: Q2487
RunNo.: LB136399

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB COD	mg/L	< 5.0000	5.0000	U	1.50	10	05/28/2025
Sample ID: CCB1 COD	mg/L	< 5.0000	5.0000	U	1.50	10	07/08/2025
Sample ID: CCB2 COD	mg/L	< 5.0000	5.0000	U	1.50	10	07/08/2025
Sample ID: CCB3 COD	mg/L	< 5.0000	5.0000	U	1.50	10	07/08/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC
Project: Construction of Shafts 17B-18B - PN 220084

SDG No.: Q2487
RunNo.: LB136405

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/09/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/09/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/09/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/09/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/09/2025
Sample ID: CCB5 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/09/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC
Project: Construction of Shafts 17B-18B - PN 220084

SDG No.: Q2487
RunNo.: LB136408

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	07/09/2025
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	07/09/2025
Sample ID: CCB2 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	07/09/2025
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	07/09/2025
Sample ID: CCB4 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	07/09/2025
Sample ID: CCB5 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	07/09/2025

Initial and Continuing Calibration Blank Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q2487

Project: Construction of Shafts 17B-18B - PN 220084

RunNo.: LB136408

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
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Preparation Blank Summary

Client: Walsh Construction Company II, LLC

SDG No.: Q2487

Project: Construction of Shafts 17B-18B - PN 220084

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136383BL TVS	%	< 5.0000	5.0000	U	1	10	07/07/2025
Sample ID: LB136393BL TS	%	< 2.5000	2.5000	U	1	5	07/07/2025
Sample ID: LB136399BL COD	mg/Kg	< 250.0000	250.0000	U	84.1	500	07/08/2025
Sample ID: LB136422BL Oil and Grease	mg/Kg	< 12.5000	12.5000	U	5.8	25	07/10/2025
Sample ID: PB168731BL TKN	mg/Kg	< 12.5000	12.5000	U	9.4	25	07/09/2025
Sample ID: PB168732BL Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	07/08/2025
Sample ID: PB168749BL Cyanide	mg/Kg	< 0.1250	0.1250	U	0.042	0.25	07/07/2025
Sample ID: PB168757BL Ammonia as N	mg/Kg	< 2.5000	2.5000	U	2.2	5	07/09/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Sample ID:	Q2487-09
Client ID:	G4(0-6)MS	Percent Solids for Spike Sample:	87.1

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/Kg	75-125	54.6		2.50	U	55.2	1	99		07/09/2025
Oil and Grease	mg/Kg	75-125	5400		2810		115	1	2250	*	07/10/2025
Cyanide	mg/Kg	75-125	2.20		0.047	U	2.2	1	100		07/07/2025
COD	mg/Kg	75-125	3120		615		2680	1	94		07/08/2025
TKN	mg/Kg	75-125	495		240		280	1	91		07/09/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Sample ID:	Q2487-09
Client ID:	G4(0-6)MSD	Percent Solids for Spike Sample:	87.1

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/Kg	75-125	53.0		2.50	U	55.2	1	96		07/09/2025
Oil and Grease	mg/Kg	75-125	4830		2810		115	1	1760	*	07/10/2025
Cyanide	mg/Kg	75-125	2.20		0.047	U	2.3	1	96		07/07/2025
COD	mg/Kg	75-125	3140		615		2710	1	93		07/08/2025
TKN	mg/Kg	75-125	483		240		280	1	87		07/09/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Sample ID:	Q2517-01
Client ID:	TP-14MS	Percent Solids for Spike Sample:	87.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1400		0.078	U	1460	40	96		07/08/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Sample ID:	Q2517-01
Client ID:	TP-14MS	Percent Solids for Spike Sample:	87.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	42.4		0.078	U	45.6	2	93		07/08/2025

Matrix Spike Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Sample ID:	Q2517-01
Client ID:	TP-14MS	Percent Solids for Spike Sample:	87.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	37.0		0.078	U	45.6	2	81		07/08/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Sample ID:	Q2487-09
Client ID:	G4(0-6)DUP	Percent Solids for Spike Sample:	87.1

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		07/07/2025
TVS	%	+/-5	3.70	J	3.80	J	1	2.67		07/07/2025
Cyanide	mg/Kg	+/-20	0.047	U	0.047	U	1	0		07/07/2025
TS	%	+/-5	87.6		87.2		1	0.46		07/07/2025
COD	mg/Kg	+/-20	615		571		1	7.42		07/08/2025
Ammonia as N	mg/Kg	+/-20	2.50	U	2.50	U	1	0		07/09/2025
TKN	mg/Kg	+/-20	240		230		1	4		07/09/2025
Oil and Grease	mg/Kg	+/-20	2810		2820		1	0.51		07/10/2025

Duplicate Sample Summary

Client: Walsh Construction Company II, LLC Project: Construction of Shafts 17B-18B - PN 220084 Client ID: G4(0-6)MSD	SDG No.: Q2487 Sample ID: Q2487-09 Percent Solids for Spike Sample: 87.1
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.20		2.20		1	0		07/07/2025
COD	mg/Kg	+/-20	3120		3140		1	0.64		07/08/2025
Ammonia as N	mg/Kg	+/-20	54.6		53.0		1	3		07/09/2025
TKN	mg/Kg	+/-20	495		483		1	2		07/09/2025
Oil and Grease	mg/Kg	+/-20	5400		4830		1	11.19		07/10/2025

Duplicate Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Sample ID:	Q2517-01
Client ID:	TP-14DUP	Percent Solids for Spike Sample:	87.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.078	U	0.078	U	1	0		07/08/2025

Laboratory Control Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Run No.:	LB136399

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136399BS							
COD	mg/Kg	2500	2600		104	1	90-110	07/08/2025

Laboratory Control Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Run No.:	LB136422

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136422BS							
Oil and Grease	mg/Kg	100	94.9		95	1	80-120	07/10/2025

Laboratory Control Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Run No.:	LB136408

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168731BS							
TKN	mg/Kg	250	245		98	1	90-110	07/09/2025

Laboratory Control Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Run No.:	LB136397

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168732BS							
Hexavalent Chromium	mg/Kg	20	19.9		100	1	84-110	07/08/2025

Laboratory Control Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Run No.:	LB136387

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168749BS							
Cyanide	mg/Kg	5	4.80		96	1	85-115	07/07/2025

Laboratory Control Sample Summary

Client:	Walsh Construction Company II, LLC	SDG No.:	Q2487
Project:	Construction of Shafts 17B-18B - PN 220084	Run No.:	LB136405

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168757BS							
Ammonia as N	mg/Kg	50	49.1		98	1	90-110	07/09/2025



RAW DATA

Analytical Summary Report

Analysis Method: 9095B
Parameter: Paint Filter
Run Number: LB136381

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

Seq	LabID	ClientID	Dilution	Weight(g)	Inst. Conc (ml/100g)	Anal Date	Anal Time
1	Q2487-09	G4 (0-6)	1	100.03	0.00	07/07/2025	08:15
2	Q2487-09DUP	G4 (0-6) DUP	1	100.03	0.00	07/07/2025	08:23
3	Q2487-10	G4 (6-12)	1	100.07	0.00	07/07/2025	08:31
4	Q2487-11	G3 (0-6)	1	100.02	0.00	07/07/2025	08:38
5	Q2487-12	G3 (6-12)	1	100.03	0.00	07/07/2025	08:45
6	Q2487-13	G2 (0-6)	1	100.06	0.00	07/07/2025	08:52
7	Q2487-14	G2 (6-12)	1	100.06	0.00	07/07/2025	09:00
8	Q2487-15	G1 (0-6)	1	100.07	0.00	07/07/2025	09:07
9	Q2487-16	G1 (6-12)	1	100.02	0.00	07/07/2025	09:15
10	Q2491-01	EO-1-070225	1	100.05	0.00	07/07/2025	09:22
11	Q2493-01	WC-11	1	100.03	0.00	07/07/2025	09:30
12	Q2507-01	SU-04-7.3-2025	1	100.07	0.00	07/07/2025	09:38
13	Q2513-01	HR-2-070325	1	100.08	0.00	07/07/2025	09:45
14	Q2513-03	HR-3-070325	1	100.05	0.00	07/07/2025	09:53

WORKLIST(Hardcopy Internal Chain)

6136381

WorkList Name : pf-7-7

WorkList ID : 190553

Department : Wet-Chemistry

Date : 07-07-2025 07:53:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-09	G4(0-6)	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2487-10	G4(6-12)	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2487-11	G3(0-6)	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2487-12	G3(6-12)	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2487-13	G2(0-6)	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2487-14	G2(6-12)	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2487-15	G1(0-6)	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2487-16	G1(6-12)	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2491-01	EO-1-070225	Solid	Paint Filter	Cool 4 deg C	WALS01	A22	07/01/2025	9095B
Q2493-01	WC-11	Solid	Paint Filter	Cool 4 deg C	PSEG03	A61	07/02/2025	9095B
Q2507-01	SU-04-7.3-2025	Solid	Paint Filter	Cool 4 deg C	PSEG03	A43	07/02/2025	9095B
Q2513-01	HR-2-070325	Solid	Paint Filter	Cool 4 deg C	PSEG03	O12	07/04/2025	9095B
Q2513-03	HR-3-070325	Solid	Paint Filter	Cool 4 deg C	PSEG05	O21	07/03/2025	9095B
					PSEG05	O21	07/03/2025	9095B

Date/Time 07/07/2025 08.05
Raw Sample Received by: RMCWCS
Raw Sample Relinquished by: RMCWCS

Date/Time 07/07/2025 10.10
Raw Sample Received by: RMCWCS
Raw Sample Relinquished by: RMCWCS

TOTAL VOLATILE SOLIDS 160.4

TEMP1 IN: 104 °C 07/07/2025 16:00 **TEMP1 OUT:** 103 °C 07/08/2025 07:30
TEMP2 IN: 104 °C 07/08/2025 08:00 **TEMP2 OUT:** 103 °C 07/08/2025 09:30
TEMP3 IN: 550 °C 07/08/2025 10:00 **TEMP3 OUT:** 550 °C 07/08/2025 11:30
TEMP4 IN: 540 °C 07/08/2025 12:00 **TEMP4 OUT:** 550 °C 07/08/2025 13:30

Run Number: LB136383

SUPERVISOR: Iwona

ANALYST: jignesh

BalanceID: WC SC-6

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	LB136383BL	85.6317	85.6317	85.6317	85.6317	85.6317	85.6317	85.6317	0.0000	0
2	Q2487-09	88.4175	88.4175	111.9573	109.0424	109.0424	108.2731	108.2731	0.7693	3.7
3	Q2487-09DUP	87.3564	87.3564	112.8734	109.6139	109.6139	108.7740	108.7740	0.8399	3.8
4	Q2487-10	97.0018	97.0018	125.6388	116.3561	116.3561	114.8575	114.8575	1.4986	7.7
5	Q2487-11	53.5665	53.5665	81.5103	79.2708	79.2708	78.2478	78.2478	1.0230	4
6	Q2487-12	82.3616	82.3616	114.8278	105.8146	105.8146	104.5144	104.5144	1.3002	5.5
7	Q2487-13	90.0690	90.0690	112.155	110.1528	110.1528	109.3073	109.3073	0.8455	4.2
8	Q2487-14	78.4168	78.4168	101.307	94.1803	94.1803	92.9564	92.9564	1.2239	7.8
9	Q2487-15	101.0999	101.0999	123.7336	122.2664	122.2664	117.9947	117.9947	4.2717	20.2
10	Q2487-16	78.4766	78.4766	109.2354	104.1901	104.1901	103.9829	103.9829	0.2072	0.8

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)

131383

WorkList Name : tvs q2787

WorkList ID : 190575

Department : Wet-Chemistry

Date : 07-07-2025 12:25:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-09	C G4(0-6)	Solid	TVS	Cool 4 deg C	WALS01	A22	07/01/2025	160.4
Q2487-10	C G4(6-12)	Solid	TVS	Cool 4 deg C	WALS01	A22	07/01/2025	160.4
Q2487-11	C G3(0-6)	Solid	TVS	Cool 4 deg C	WALS01	A22	07/01/2025	160.4
Q2487-12	C G3(6-12)	Solid	TVS	Cool 4 deg C	WALS01	A22	07/01/2025	160.4
Q2487-13	C G2(0-6)	Solid	TVS	Cool 4 deg C	WALS01	A22	07/01/2025	160.4
Q2487-14	C G2(6-12)	Solid	TVS	Cool 4 deg C	WALS01	A22	07/01/2025	160.4
Q2487-15	C G1(0-6)	Solid	TVS	Cool 4 deg C	WALS01	A22	07/01/2025	160.4
Q2487-16	C G1(6-12)	Solid	TVS	Cool 4 deg C	WALS01	A22	07/01/2025	160.4

Date/Time 07/07/25 13:00

Raw Sample Received by: S8 (WCC)

Raw Sample Relinquished by: JTC87

Date/Time 07/07/25

Raw Sample Received by: JTC87

Raw Sample Relinquished by: S8 (WCC)

LB136387

Test results

Aquakem 7.2AQ1

Page:

1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

7/7/2025 14:42

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	96.862	0.0	0.075	
ICB1	0.139	0.0	0.001	
CCV1	247.101	0.0	0.191	
CCB1	0.029	0.0	0.001	
PB168749BL	-0.008	0.0	0.001	
PB168749BS	96.700	0.0	0.075	
Q2487-09	-0.102	0.0	0.001	
Q2487-09DUP	0.024	0.0	0.001	
Q2487-09MS	38.817	0.0	0.031	
Q2487-09MSD	38.860	0.0	0.031	
Q2487-10	-0.065	0.0	0.001	
Q2487-11	0.299	0.0	0.001	
Q2487-12	-0.540	0.0	0.000	
Q2487-13	0.222	0.0	0.001	
CCV2	247.456	0.0	0.191	
CCB2	0.435	0.0	0.001	
Q2487-14	-0.149	0.0	0.001	
Q2487-15	0.110	0.0	0.001	
Q2487-16	0.995	0.0	0.002	
Q2515-01	1.748	0.0	0.002	
CCV3	252.316	0.0	0.195	
CCB3	0.185	0.0	0.001	

N 22
Mean 46.429
SD 87.3655
CV% 188.17

Aquakem v. 7.2AQ1

Results from time period:

Mon Jul 07 14:28:07 2025

Mon Jul 07 14:42:00 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	-0.2651	µg/l	7/7/2025 10:39:33	
5.0PPBCN	A	Total CN	P	4.4801	µg/l	7/7/2025 10:39:34	
10PPBCN	A	Total CN	P	9.527	µg/l	7/7/2025 10:39:35	
50PPBCN	A	Total CN	P	49.6599	µg/l	7/7/2025 10:39:36	
100PPBCN	A	Total CN	P	100.7266	µg/l	7/7/2025 10:39:37	
250PPBCN	A	Total CN	P	251.9362	µg/l	7/7/2025 10:39:38	
500PPBCN	A	Total CN	P	498.9352	µg/l	7/7/2025 10:39:39	
ICV1	S	Total CN	P	96.862	µg/l	7/7/2025 14:28:07	
ICB1	S	Total CN	P	0.1389	µg/l	7/7/2025 14:28:09	
CCV1	S	Total CN	P	247.1009	µg/l	7/7/2025 14:28:12	
CCB1	S	Total CN	P	0.0289	µg/l	7/7/2025 14:28:13	
PB168749BL	S	Total CN	P	-0.0076	µg/l	7/7/2025 14:28:15	
PB168749BS	S	Total CN	P	96.7	µg/l	7/7/2025 14:35:42	
Q2487-09	S	Total CN	P	-0.1019	µg/l	7/7/2025 14:35:43	
Q2487-09DUP	S	Total CN	P	0.0242	µg/l	7/7/2025 14:35:44	
Q2487-09MS	S	Total CN	P	38.8169	µg/l	7/7/2025 14:35:45	
Q2487-09MSD	S	Total CN	P	38.8601	µg/l	7/7/2025 14:35:46	
Q2487-10	S	Total CN	P	-0.0648	µg/l	7/7/2025 14:35:47	
Q2487-11	S	Total CN	P	0.299	µg/l	7/7/2025 14:35:48	
Q2487-12	S	Total CN	P	-0.54	µg/l	7/7/2025 14:35:49	
Q2487-13	S	Total CN	P	0.2223	µg/l	7/7/2025 14:35:50	
CCV2	S	Total CN	P	247.456	µg/l	7/7/2025 14:35:51	
CCB2	S	Total CN	P	0.4348	µg/l	7/7/2025 14:35:52	
Q2487-14	S	Total CN	P	-0.1486	µg/l	7/7/2025 14:41:53	
Q2487-15	S	Total CN	P	0.1096	µg/l	7/7/2025 14:41:54	
Q2487-16	S	Total CN	P	0.9951	µg/l	7/7/2025 14:41:55	
Q2515-01	S	Total CN	P	1.7482	µg/l	7/7/2025 14:41:56	
CCV3	S	Total CN	P	252.3158	µg/l	7/7/2025 14:41:59	
CCB3	S	Total CN	P	0.1852	µg/l	7/7/2025 14:42:00	

Calibration results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

7/7/2025 11:40

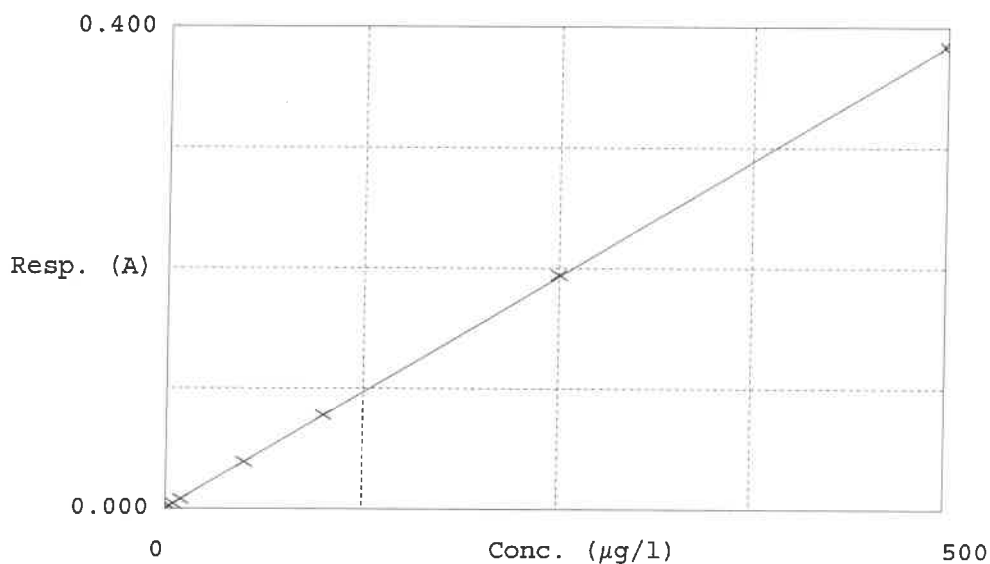
Test Total CN

Accepted 7/7/2025 10:50

Factor 1302
 Bias 0.001

Coeff. of det. 0.999970

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	-0.2651	0.0000	-
2	5.0PPBCN	0.004	4.4801	5.0000	-10.4
3	10PPBCN	0.008	9.5270	10.0000	-4.7
4	50PPBCN	0.039	49.6599	50.0000	-0.7
5	100PPBCN	0.078	100.7266	100.0000	0.7
6	250PPBCN	0.194	251.9362	250.0000	0.8
7	500PPBCN	0.384	498.9352	500.0000	-0.2

07/07/2025
 RM

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 07/07/2025

Run Number: LB136393

BalanceID: WC SC-6

OvenID: WC OVEN-1

ThermometerID: WET OVEN#1

TEMP1 IN: 104 °C 07/07/2025 11:00 **TEMP1 OUT:** 104 °C 07/07/2025 12:00
TEMP2 IN: 103 °C 07/07/2025 12:30 **TEMP2 OUT:** 103 °C 07/07/2025 13:30
TEMP3 IN: 104 °C 07/07/2025 16:00 **TEMP3 OUT:** 103 °C 07/08/2025 07:30
TEMP4 IN: 104 °C 07/08/2025 08:00 **TEMP4 OUT:** 103 °C 07/08/2025 09:30

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	LB136393BL	LB136393BL	85.6317	85.6317	85.6317	85.6317	85.6317	85.6317	0.0000	0
2	Q2487-09	G4 (0-6)	88.4175	88.4175	111.9573	109.0424	109.0424	109.0420	20.6249	87.6
3	Q2487-09DUP	G4 (0-6) DUP	87.3564	87.3564	112.8734	109.6139	109.6139	109.6140	22.2575	87.2
4	Q2487-10	G4 (6-12)	97.0018	97.0018	125.6388	116.3561	116.3561	116.3560	19.3543	67.6
5	Q2487-11	G3 (0-6)	53.5665	53.5665	81.5103	79.2708	79.2708	79.2708	25.7043	92
6	Q2487-12	G3 (6-12)	82.3616	82.3616	114.8278	105.8146	105.8146	105.8150	23.4530	72.2
7	Q2487-13	G2 (0-6)	90.0690	90.0690	112.155	110.1528	110.1528	110.1530	20.0838	90.9
8	Q2487-14	G2 (6-12)	78.4168	78.4168	101.307	94.1803	94.1803	94.1803	15.7635	68.9
9	Q2487-15	G1 (0-6)	101.0999	101.0999	123.7336	122.2664	122.2664	122.2660	21.1665	93.5
10	Q2487-16	G1 (6-12)	78.4766	78.4766	109.2354	104.1901	104.1901	104.1900	25.7135	83.6

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)

WorkList Name : ts s q2787

WorkList ID : 190574

Department : Wet-Chemistry

Date : 07-07-2025 12:24:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-09	G4(0-6)	Solid	TS	Cool 4 deg C	WALS01	A22	07/01/2025	SM2540 B
Q2487-10	G4(6-12)	Solid	TS	Cool 4 deg C	WALS01	A22	07/01/2025	SM2540 B
Q2487-11	G3(0-6)	Solid	TS	Cool 4 deg C	WALS01	A22	07/01/2025	SM2540 B
Q2487-12	G3(6-12)	Solid	TS	Cool 4 deg C	WALS01	A22	07/01/2025	SM2540 B
Q2487-13	G2(0-6)	Solid	TS	Cool 4 deg C	WALS01	A22	07/01/2025	SM2540 B
Q2487-14	G2(6-12)	Solid	TS	Cool 4 deg C	WALS01	A22	07/01/2025	SM2540 B
Q2487-15	G1(0-6)	Solid	TS	Cool 4 deg C	WALS01	A22	07/01/2025	SM2540 B
Q2487-16	G1(6-12)	Solid	TS	Cool 4 deg C	WALS01	A22	07/01/2025	SM2540 B

Date/Time 07/07/25 13:06

Raw Sample Received by: SP (WCA)

Raw Sample Relinquished by: SP (WCA)

Date/Time 07/07/25

Raw Sample Received by: SP (WCA)

Raw Sample Relinquished by: SP (WCA)

Analytical Summary Report

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB136397

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP113840
5N sulfuric acid	WP112831
HNO3 Hex-Chrome, 5M	WP112830
Hexchrome Cleaning Solution	WP113087

Intercept: 0.0006

Slope: 0.7642

Regression: 0.999986

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100	7.33	1.65	0.000	0.000	0.000	-0.00		07/08/2025	15:40
2	CAL2	0.01	1	100	100	7.42	1.90	0.000	0.009	0.009	0.010	0	07/08/2025	15:41
3	CAL3	0.025	1	100	100	7.39	1.97	0.000	0.020	0.020	0.025	0	07/08/2025	15:42
4	CAL4	0.05	1	100	100	7.46	1.95	0.000	0.038	0.038	0.048	-4	07/08/2025	15:43
5	CAL5	0.1	1	100	100	7.43	2.01	0.000	0.079	0.079	0.102	2	07/08/2025	15:44
6	CAL6	0.5	1	100	100	7.40	1.99	0.000	0.380	0.380	0.496	-0.8	07/08/2025	15:45
7	CAL7	1	1	100	100	7.41	1.88	0.000	0.766	0.766	1.001	0.1	07/08/2025	15:46

Analytical Summary Report

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB136397

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100	7.46	1.90	0.000	0.377	0.377	0.493	07/08/2025	15:47
2	ICB		1	100	100	7.27	1.94	0.000	0.000	0.000	-0.001	07/08/2025	15:48
3	CCV1	0.5	1	100	100	7.49	2.03	0.000	0.380	0.380	0.496	07/08/2025	15:49
4	CCB1		1	100	100	7.31	1.88	0.000	0.001	0.001	0.001	07/08/2025	15:50
5	RL Check	0.01	1	100	100	7.46	1.92	0.000	0.010	0.010	0.012	07/08/2025	15:51
6	PB168732BL		1	2.50	100	7.36	1.77	0.000	0.000	0.000	-0.001	07/08/2025	15:52
7	PB168732BS	20	1	2.50	100	7.49	2.01	0.000	0.381	0.381	0.498	07/08/2025	15:53
8	Q2487-09		1	2.57	100	7.36	1.90	0.010	0.011	0.001	0.001	07/08/2025	15:54
9	Q2487-10		1	2.51	100	7.52	2.10	0.037	0.038	0.001	0.001	07/08/2025	15:55
10	Q2487-11		1	2.54	100	7.59	2.27	0.016	0.016	0.000	-0.001	07/08/2025	15:56
11	Q2487-12		1	2.52	100	7.52	2.13	0.038	0.038	0.000	-0.001	07/08/2025	15:57
12	Q2487-13		1	2.52	100	7.65	1.95	0.022	0.022	0.000	-0.001	07/08/2025	15:58
13	Q2487-14		1	2.57	100	7.61	2.11	0.034	0.035	0.001	0.001	07/08/2025	15:59
14	Q2487-15		1	2.55	100	7.58	2.06	0.020	0.021	0.001	0.001	07/08/2025	16:00
15	Q2487-16		1	2.57	100	7.41	2.10	0.034	0.034	0.000	-0.001	07/08/2025	16:01
16	CCV2	0.5	1	100	100	7.42	1.85	0.000	0.378	0.378	0.494	07/08/2025	16:02
17	CCB2		1	100	100	7.39	1.71	0.000	0.001	0.001	0.001	07/08/2025	16:03
18	Q2493-01		1	2.51	100	7.60	2.10	0.010	0.010	0.000	-0.001	07/08/2025	16:04
19	Q2517-01		1	2.56	100	7.44	2.01	0.000	0.001	0.001	0.001	07/08/2025	16:05
20	Q2517-01DU		1	2.56	100	7.46	2.10	0.000	0.001	0.001	0.001	07/08/2025	16:06
21	Q2517-01MS	40	2	2.57	100	7.46	2.06	0.000	0.319	0.319	0.417	07/08/2025	16:07
22	Q2517-01MS	1284	40	2.57	100	7.42	2.10	0.000	0.606	0.606	0.792	07/08/2025	16:08
23	Q2517-01MS	40	2	2.56	100	7.53	2.19	0.000	0.365	0.365	0.477	07/08/2025	16:09
24	CCV3	0.5	1	100	100	7.39	1.88	0.000	0.380	0.380	0.496	07/08/2025	16:10
25	CCB3		1	100	100	7.24	1.80	0.000	0.001	0.001	0.001	07/08/2025	16:11

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB136399

Reagent/Standard	Lot/Log #
COD calibration std. 150 ppm	WP113238
COD calibration std. 100 ppm	WP113237
COD calibration std. 50 ppm	WP113235
COD calibration std. 10 ppm	WP113234
COD calibration std. 0 ppm	WP113233
COD ICV-LCS std, 50ppm	WP113240
COD calibration std. 75 ppm	WP113236
COD Digestion Vials Low Level 0-150Mg/L	W3129
COD CCV std, 50ppm	WP113843
COD ICV-LCS std, 50ppm	WP113844
RL CHECK	WP113845

Temp In(C): 148	Date In: 07/08/2025	Time In: 09:20
Temp Out(C): 151	Date Out: 07/08/2025	Time Out: 11:20

Intercept: 0.8179

Slope: 0.9847

Regression: 0.9995

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	Water	0.000	-0.831		05/28/2025	13:10
2	CAL2	10	1	Water	9.000	8.309	-16.9	05/28/2025	13:10
3	CAL3	50	1	Water	52.000	51.977	4	05/28/2025	13:11
4	CAL4	75	1	Water	77.000	77.366	3.2	05/28/2025	13:11
5	CAL5	100	1	Water	99.000	99.708	-0.3	05/28/2025	13:12
6	CAL6	150	1	Water	147.000	148.453	-1	05/28/2025	13:12

Analytical Summary Report

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB136399

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	51.000	50.962	05/28/2025	13:13
2	ICB		NA	NA	1	Water	0.000	-0.831	05/28/2025	13:13
3	CCV1	50	NA	NA	1	Water	51.000	50.962	07/08/2025	15:00
4	CCB1		NA	NA	1	Water	0.000	-0.831	07/08/2025	15:00
5	RL Check	10	NA	NA	1	Water	8.000	7.294	07/08/2025	15:01
6	LB136399BL		1	50	1	Solid	1.000	0.185	07/08/2025	15:01
7	LB136399BS	50	1	50	1	Solid	52.000	51.977	07/08/2025	15:02
8	Q2487-09		1.06	50	1	Solid	12.000	11.356	07/08/2025	15:02
9	Q2487-09DUP		1.04	50	1	Solid	11.000	10.340	07/08/2025	15:03
10	Q2487-09MS	50	1.07	50	1	Solid	58.000	58.071	07/08/2025	15:03
11	Q2487-09MSD	50	1.06	50	1	Solid	58.000	58.071	07/08/2025	15:04
12	Q2487-10		1.01	50	1	Solid	0.000	-0.831	07/08/2025	15:04
13	Q2487-11		1.07	50	1	Solid	5.000	4.247	07/08/2025	15:05
14	Q2487-12		1.05	50	1	Solid	0.000	-0.831	07/08/2025	15:05
15	Q2487-13		1.07	50	1	Solid	0.000	-0.831	07/08/2025	15:06
16	CCV2	50	NA	NA	1	Water	50.000	49.946	07/08/2025	15:06
17	CCB2		NA	NA	1	Water	0.000	-0.831	07/08/2025	15:07
18	Q2487-14		1.06	50	1	Solid	3.000	2.216	07/08/2025	15:07
19	Q2487-15		1.03	50	1	Solid	0.000	-0.831	07/08/2025	15:08
20	Q2487-16		1.04	50	1	Solid	0.000	-0.831	07/08/2025	15:08
21	CCV3	50	NA	NA	1	Water	51.000	50.962	07/08/2025	15:09
22	CCB3		NA	NA	1	Water	1.000	0.185	07/08/2025	15:09

WORKLIST(Hardcopy Internal Chain)

LB 136399

WorkList Name : COD-070825

WorkList ID : 190582

Department : Wet-Chemistry

Date : 07-08-2025 09:04:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-09	G4(0-6)	Solid	COD	Cool 4 deg C	WALS01	A22	07/01/2025	SM5220 D
Q2487-10	G4(6-12)	Solid	COD	Cool 4 deg C	WALS01	A22	07/01/2025	SM5220 D
Q2487-11	G3(0-6)	Solid	COD	Cool 4 deg C	WALS01	A22	07/01/2025	SM5220 D
Q2487-12	G3(6-12)	Solid	COD	Cool 4 deg C	WALS01	A22	07/01/2025	SM5220 D
Q2487-13	G2(0-6)	Solid	COD	Cool 4 deg C	WALS01	A22	07/01/2025	SM5220 D
Q2487-14	G2(6-12)	Solid	COD	Cool 4 deg C	WALS01	A22	07/01/2025	SM5220 D
Q2487-15	G1(0-6)	Solid	COD	Cool 4 deg C	WALS01	A22	07/01/2025	SM5220 D
Q2487-16	G1(6-12)	Solid	COD	Cool 4 deg C	WALS01	A22	07/01/2025	SM5220 D

Date/Time 07/08/25 09:05
Raw Sample Received by: 12(50)
Raw Sample Relinquished by: 28(606)

Date/Time 07/08/25 09:50
Raw Sample Received by: 28(606)
Raw Sample Relinquished by: 12(50)

LB136405

Test results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

7/9/2025 11:06

Reviewed by: RM Instrument ID: Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.987	0.0	0.219	
ICB1	0.025	0.0	0.022	
CCV1	0.943	0.0	0.210	
CCB1	0.019	0.0	0.021	
RL CHECK	0.099	0.0	0.037	
PB168757BL	0.013	0.0	0.019	
PB168757BS	0.983	0.0	0.218	
Q2487-09	0.033	0.0	0.023	
Q2487-09DUP	0.035	0.0	0.024	
Q2487-09MS	0.989	0.0	0.220	
Q2487-09MSD	0.960	0.0	0.214	
Q2487-10	0.188	0.0	0.055	
Q2487-11	0.007	0.0	0.018	
Q2487-12	0.706	0.0	0.161	
CCV2	0.959	0.0	0.213	
CCB2	0.010	0.0	0.019	
Q2487-13	0.012	0.0	0.019	
Q2487-14	0.148	0.0	0.047	
Q2487-15	0.028	0.0	0.023	
Q2487-16	0.050	0.0	0.027	
PB168758BL	0.012	0.0	0.019	
PB168758BS	0.987	0.0	0.219	
Q2512-01	2.201	0.0	0.468	Test limit high
Q2512-01DUP	2.337	0.0	0.496	Test limit high
Q2512-01MS	3.225	0.0	0.678	Test limit high
Q2512-01MSD	3.117	0.0	0.656	Test limit high
CCV3	1.000	0.0	0.222	
CCB3	0.013	0.0	0.019	
Q2525-01	0.855	0.0	0.192	
CCV4	0.957	0.0	0.213	
CCB4	0.016	0.0	0.020	
Q2512-01DLX2	1.194	0.0	0.262	
Q2512-01DUPDLX2	1.198	0.0	0.262	
CCV5	0.995	0.0	0.221	
CCB5	0.011	0.0	0.019	

99% (50-150)
07/09/2025
RM

N 35
Mean 0.723
SD 0.8713
CV% 120.48

Aquakem v. 7.2AQ1

Results from time period:

Wed Jul 09 08:36:02 2025

Wed Jul 09 11:04:20 2025

Sample Id	Sam/Ct	Test short name	Test t	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-N	P	0.019	mg/l	7/9/2025 9:20:57	
0.1PPM	A	Ammonia-N	P	0.1126	mg/l	7/9/2025 9:20:58	
0.2PPM	A	Ammonia-N	P	0.1993	mg/l	7/9/2025 9:20:59	
0.4PPM	A	Ammonia-N	P	0.3945	mg/l	7/9/2025 9:21:00	
1.0PPM	A	Ammonia-N	P	0.942	mg/l	7/9/2025 9:21:01	
1.3PPM	A	Ammonia-N	P	1.3424	mg/l	7/9/2025 9:21:02	
2.0PPM	A	Ammonia-N	P	2.0235	mg/l	7/9/2025 9:21:03	
ICV1	S	Ammonia-N	P	0.9872	mg/l	7/9/2025 10:03:49	
ICB1	S	Ammonia-N	P	0.0251	mg/l	7/9/2025 10:03:52	
CCV1	S	Ammonia-N	P	0.9429	mg/l	7/9/2025 10:03:53	
CCB1	S	Ammonia-N	P	0.0185	mg/l	7/9/2025 10:03:56	
RL CHECK	S	Ammonia-N	P	0.0986	mg/l	7/9/2025 10:03:58	
PB168757BL	S	Ammonia-N	P	0.0125	mg/l	7/9/2025 10:14:34	
PB168757BS	S	Ammonia-N	P	0.9825	mg/l	7/9/2025 10:14:35	
Q2487-09	S	Ammonia-N	P	0.033	mg/l	7/9/2025 10:14:37	
Q2487-09DUP	S	Ammonia-N	P	0.0355	mg/l	7/9/2025 10:14:38	
Q2487-09MS	S	Ammonia-N	P	0.9893	mg/l	7/9/2025 10:14:39	
Q2487-09MSD	S	Ammonia-N	P	0.9599	mg/l	7/9/2025 10:14:40	
Q2487-10	S	Ammonia-N	P	0.1884	mg/l	7/9/2025 10:14:43	
Q2487-11	S	Ammonia-N	P	0.0069	mg/l	7/9/2025 10:14:44	
Q2487-12	S	Ammonia-N	P	0.7058	mg/l	7/9/2025 10:25:17	
CCV2	S	Ammonia-N	P	0.9595	mg/l	7/9/2025 10:25:20	
CCB2	S	Ammonia-N	P	0.0096	mg/l	7/9/2025 10:25:23	
Q2487-13	S	Ammonia-N	P	0.0117	mg/l	7/9/2025 10:25:24	
Q2487-14	S	Ammonia-N	P	0.148	mg/l	7/9/2025 10:25:25	
Q2487-15	S	Ammonia-N	P	0.0284	mg/l	7/9/2025 10:25:26	
Q2487-16	S	Ammonia-N	P	0.0501	mg/l	7/9/2025 10:25:27	
PB168758BL	S	Ammonia-N	P	0.0123	mg/l	7/9/2025 10:25:28	
PB168758BS	S	Ammonia-N	P	0.987	mg/l	7/9/2025 10:36:01	
Q2512-01	S	Ammonia-N	P	2.2009	mg/l	7/9/2025 10:36:02	
Q2512-01DUP	S	Ammonia-N	P	2.3374	mg/l	7/9/2025 10:36:03	
Q2512-01MS	S	Ammonia-N	P	3.2246	mg/l	7/9/2025 10:36:04	
Q2512-01MSD	S	Ammonia-N	P	3.1169	mg/l	7/9/2025 10:36:05	
CCV3	S	Ammonia-N	P	0.9999	mg/l	7/9/2025 10:36:09	
CCB3	S	Ammonia-N	P	0.0127	mg/l	7/9/2025 10:36:10	
Q2525-01	S	Ammonia-N	P	0.8555	mg/l	7/9/2025 10:43:14	
CCV4	S	Ammonia-N	P	0.9574	mg/l	7/9/2025 10:43:15	
CCB4	S	Ammonia-N	P	0.0159	mg/l	7/9/2025 10:43:17	
Q2512-01DLX2	S	Ammonia-N	P	1.1943	mg/l	7/9/2025 11:04:14	
Q2512-01DUPDLX	S	Ammonia-N	P	1.1982	mg/l	7/9/2025 11:04:16	
CCV5	S	Ammonia-N	P	0.9947	mg/l	7/9/2025 11:04:18	
CCB5	S	Ammonia-N	P	0.011	mg/l	7/9/2025 11:04:20	

Calibration results

Aquakem 7.2AQ1

Page:

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Alliance Technical Group

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

7/9/2025 9:25

Test Ammonia-N

Accepted

7/9/2025

9:25

Factor

4.877

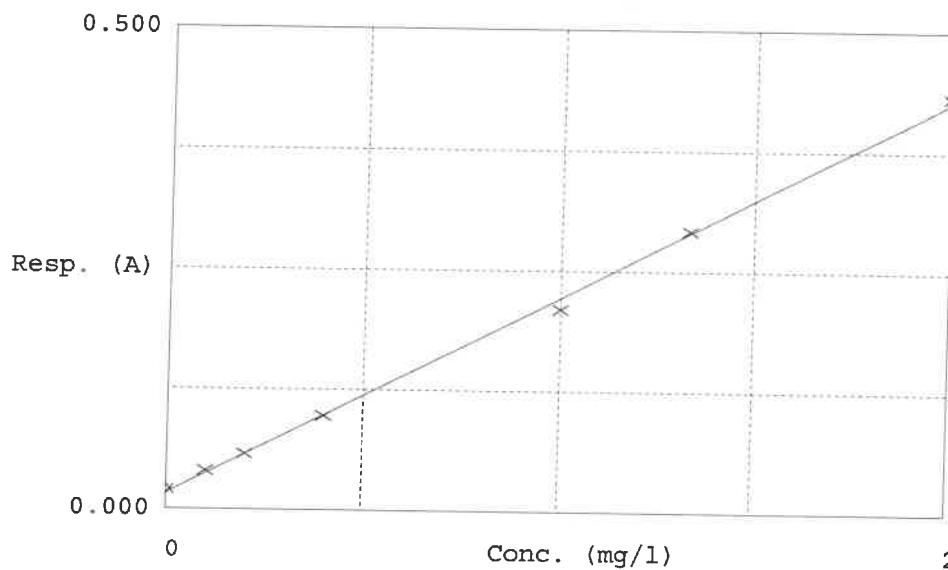
Bias

0.017

Coeff. of det.

0.998651

Errors



	Calibrator	Response	Calc. con.	Conc.	^{Re} Errors
1	0.00PPM	0.021	0.0190	0.0000	-
2	NH3-2PPM	0.040	0.1126	0.1000	12.6
3	NH3-2PPM	0.058	0.1993	0.2000	-0.4
4	NH3-2PPM	0.098	0.3945	0.4000	-1.4
5	NH3-2PPM	0.210	0.9420	1.0000	-5.8
6	NH3-2PPM	0.292	1.3424	1.3333	3.3
7	NH3-2PPM	0.432	2.0235	2.0000	1.2

07/09/2025
RM

LB136408

Test results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

7/9/2025 13:32

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.865	0.0	1.055	
ICB1	0.087	0.0	0.021	
CCV1	4.872	0.0	1.057	
CCB1	0.082	0.0	0.019	
RL CHECK	0.601	0.0	0.132	
PB168731BL	0.078	0.0	0.019	
PB168731BS	4.890	0.0	1.061	
Q2487-09	4.343	0.0	0.942	
Q2487-09DUP	4.162	0.0	0.903	
Q2487-09MS	8.890	0.0	1.927	
Q2487-09MSD	8.662	0.0	1.878	
Q2487-10	46.341	0.0	10.038	Abs. high, Init abs., Tes
Q2487-11	3.212	0.0	0.697	
Q2487-12	18.497	0.0	4.008	Init abs., Test limit hig
CCV2	4.872	0.0	1.057	
CCB2	0.090	0.0	0.021	
Q2487-13	4.390	0.0	0.953	
Q2487-14	14.272	0.0	3.093	Init abs., Test limit hig
Q2487-15	7.815	0.0	1.694	
Q2487-16	3.644	0.0	0.791	
PB168699BL	0.086	0.0	0.020	
PB168699BS	4.836	0.0	1.049	
Q2470-01	0.398	0.0	0.088	
Q2470-01DUP	0.421	0.0	0.093	
Q2470-01MS	5.068	0.0	1.099	
Q2470-01MSD	4.953	0.0	1.074	
CCV3	4.858	0.0	1.054	
CCB3	0.079	0.0	0.019	
Q2471-01	1.513	0.0	0.329	
CCV4	4.948	0.0	1.073	
CCB4	0.088	0.0	0.021	
Q2487-10DLX10	2.886	0.0	0.627	
Q2487-12DLX5	3.939	0.0	0.855	
Q2487-14DLX2	6.894	0.0	1.495	
CCV5	4.948	0.0	1.073	
CCB5	0.081	0.0	0.019	
N	36			
Mean	5.296			
SD	8.0948			
CV%	152.84			

120! (50-150)
07/09/2025
RM

Aquakem v. 7.2AQ1

Results from time period:

Wed Jul 09 11:35:35 2025

Wed Jul 09 13:32:11 2025

Sample Id	Sam/Ctr/c/	Test short name	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	0.0877	mg/l	7/9/2025 11:35:35	
0.5PPM	A	TKN-NH3	P	0.5239	mg/l	7/9/2025 11:35:36	
1.0PPM	A	TKN-NH3	P	0.9953	mg/l	7/9/2025 11:35:37	
2.5PPM	A	TKN-NH3	P	2.3921	mg/l	7/9/2025 11:35:38	
5.0PPM	A	TKN-NH3	P	4.9369	mg/l	7/9/2025 11:35:39	
6.7PPM	A	TKN-NH3	P	6.6856	mg/l	7/9/2025 11:35:40	
10.0PPM	A	TKN-NH3	P	10.0451	mg/l	7/9/2025 11:35:41	
ICV1	S	TKN-NH3	P	4.865	mg/l	7/9/2025 12:18:27	
ICB1	S	TKN-NH3	P	0.0869	mg/l	7/9/2025 12:18:30	
CCV1	S	TKN-NH3	P	4.8715	mg/l	7/9/2025 12:18:32	
CCB1	S	TKN-NH3	P	0.0816	mg/l	7/9/2025 12:18:33	
RL CHECK	S	TKN-NH3	P	0.6009	mg/l	7/9/2025 12:18:36	
PB168731BL	S	TKN-NH3	P	0.0777	mg/l	7/9/2025 12:18:37	
PB168731BS	S	TKN-NH3	P	4.8901	mg/l	7/9/2025 12:29:11	
Q2487-09	S	TKN-NH3	P	4.3427	mg/l	7/9/2025 12:29:13	
Q2487-09DUP	S	TKN-NH3	P	4.1622	mg/l	7/9/2025 12:29:14	
Q2487-09MS	S	TKN-NH3	P	8.8905	mg/l	7/9/2025 12:29:15	
Q2487-09MSD	S	TKN-NH3	P	8.662	mg/l	7/9/2025 12:29:16	
Q2487-10	S	TKN-NH3	P	46.341	mg/l	7/9/2025 12:29:19	
Q2487-11	S	TKN-NH3	P	3.2122	mg/l	7/9/2025 12:29:20	
Q2487-12	S	TKN-NH3	P	18.4967	mg/l	7/9/2025 12:29:21	
CCV2	S	TKN-NH3	P	4.8715	mg/l	7/9/2025 12:39:57	
CCB2	S	TKN-NH3	P	0.0896	mg/l	7/9/2025 12:39:58	
Q2487-13	S	TKN-NH3	P	4.3904	mg/l	7/9/2025 12:40:00	
Q2487-14	S	TKN-NH3	P	14.2724	mg/l	7/9/2025 12:40:01	
Q2487-15	S	TKN-NH3	P	7.8147	mg/l	7/9/2025 12:40:02	
Q2487-16	S	TKN-NH3	P	3.6441	mg/l	7/9/2025 12:40:03	
PB168699BL	S	TKN-NH3	P	0.0861	mg/l	7/9/2025 12:40:05	
PB168699BS	S	TKN-NH3	P	4.8355	mg/l	7/9/2025 12:50:37	
Q2470-01	S	TKN-NH3	P	0.3981	mg/l	7/9/2025 12:50:38	
Q2470-01DUP	S	TKN-NH3	P	0.4206	mg/l	7/9/2025 12:50:39	
Q2470-01MS	S	TKN-NH3	P	5.0676	mg/l	7/9/2025 12:50:40	
Q2470-01MSD	S	TKN-NH3	P	4.9528	mg/l	7/9/2025 12:50:41	
CCV3	S	TKN-NH3	P	4.8583	mg/l	7/9/2025 12:50:44	
CCB3	S	TKN-NH3	P	0.0787	mg/l	7/9/2025 12:50:47	
Q2471-01	S	TKN-NH3	P	1.5128	mg/l	7/9/2025 12:50:48	
CCV4	S	TKN-NH3	P	4.9483	mg/l	7/9/2025 12:57:17	
CCB4	S	TKN-NH3	P	0.088	mg/l	7/9/2025 12:57:20	
Q2487-10DLX10	S	TKN-NH3	P	2.886	mg/l	7/9/2025 13:32:03	
Q2487-12DLX5	S	TKN-NH3	P	3.9394	mg/l	7/9/2025 13:32:05	
Q2487-14DLX2	S	TKN-NH3	P	6.8944	mg/l	7/9/2025 13:32:06	
CCV5	S	TKN-NH3	P	4.9482	mg/l	7/9/2025 13:32:09	
CCB5	S	TKN-NH3	P	0.0808	mg/l	7/9/2025 13:32:11	

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Calibration results	Aquakem 7.2AQ1	Page: 1
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Alliance Technical Group
 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

7/9/2025 11:38

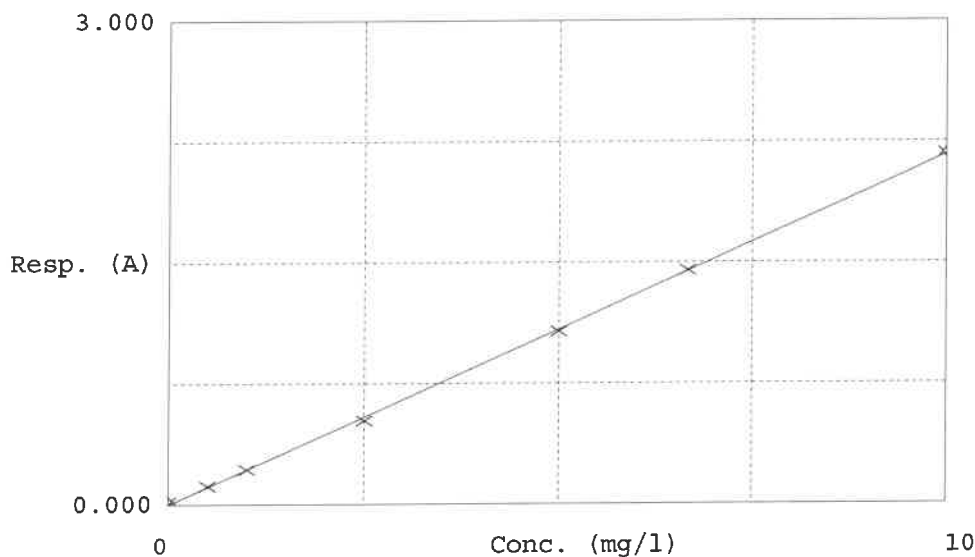
Test TKN-NH3

Accepted 7/9/2025 11:38

Factor 4.617
 Bias 0.002

Coeff. of det. 0.999683

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.021	0.0877	0.0000	4.8
2	TKN-10	0.115	0.5239	0.5000	-0.5
3	TKN-10	0.217	0.9953	1.0000	-4.3
4	TKN-10	0.520	2.3921	2.5000	-1.3
5	TKN-10	1.071	4.9369	5.0000	-0.2
6	TKN-10	1.450	6.6856	6.6667	0.5
7	TKN-10	2.177	10.0451	10.0000	

07/09/2025
 RM

Extraction and Analytical Summary Report

Analysis Method: 9071B
Test: Oil and Grease
Run Number: LB136422
Analysis Date: 07/10/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 07/10/2025
Extraction IN Time: 13:00
Extraction OUT Time: 13:30
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	LB136422BL	LB136422BL	SOLID		20.02	100	3.0154	3.0154	0	3.0155	3.0155	0.0001	5
2	LB136422BS	LB136422BS	SOLID		20.03	100	2.9853	2.9853	0	2.9872	2.9872	0.0019	94.86
3	Q2487-09	G4 (0-6)	SOLID		20.04	100	3.0446	3.0446	0	3.0936	3.0936	0.0490	2445.11
4	Q2487-09DUP	G4 (0-6) DUP	SOLID		20.02	100	3.0845	3.0845	0	3.1337	3.1337	0.0492	2457.54
5	Q2487-09MS	G4 (0-6)	SOLID		20.03	100	3.0612	3.0612	0	3.1554	3.1554	0.0942	4702.95
6	Q2487-09MSD	G4 (0-6)	SOLID		20.05	100	3.0699	3.0699	0	3.1542	3.1542	0.0843	4204.49
7	Q2487-10	G4 (6-12)	SOLID		20.02	100	3.0240	3.0240	0	3.0254	3.0254	0.0014	69.93
8	Q2487-11	G3 (0-6)	SOLID		20.03	100	3.0534	3.0534	0	3.1595	3.1595	0.1061	5297.05
9	Q2487-12	G3 (6-12)	SOLID		20.04	100	3.0625	3.0625	0	3.0635	3.0635	0.0010	49.9
10	Q2487-13	G2 (0-6)	SOLID		20.02	100	2.9954	2.9954	0	3.0291	3.0291	0.0337	1683.32
11	Q2487-14	G2 (6-12)	SOLID		20.03	100	3.0810	3.0810	0	3.1021	3.1021	0.0211	1053.42
12	Q2487-15	G1 (0-6)	SOLID		20.03	100	3.0860	3.0860	0	3.2757	3.2757	0.1897	9470.79
13	Q2487-16	G1 (6-12)	SOLID		20.02	100	3.0316	3.0316	0	3.0604	3.0604	0.0288	1438.56

QC Batch# LB136422 Test: Oil and Grease Analysis Date: 07/10/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3204
pH Paper 0-14	NA
Sodium Sulfate	EP2624
1:1 HCL	WP112782
Silica Gel	NA
Sand	W3186

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSS	1.00 ML	WP112785
LCSSD	NA	NA
MS/MSD	1.00 ML	WP112786

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 15:31
 1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 14:30
 Bal Check Time: 13:10 Out OVEN TEMP1: 71 °C Dessicator Time Out1: 16:00
 Out Time1: 15:30

After Analysis

0.0020 gram Balance: 0.0021 (0.0018-0.0022) In OVEN TEMP2 : 70 °C Dessicator Time In2 : 17:01
 1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 16:30
 Bal Check Time: 17:36 Out OVEN TEMP2: 70 °C Dessicator Time Out2: 17:35
 Out Time2: 17:00

WORKLIST(Hardcopy Internal Chain)

136422

WorkList Name : OIL & GREASE Q2537

WorkList ID : 190638

Department : Wet-Chemistry

Date : 07-10-2025 12:38:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-09	G4(0-6)	Solid	Oil and Grease	Cool 4 deg C	WALS01	A22	07/01/2025	9071B
Q2487-10	G4(6-12)	Solid	Oil and Grease	Cool 4 deg C	WALS01	A22	07/01/2025	9071B
Q2487-11	G3(0-6)	Solid	Oil and Grease	Cool 4 deg C	WALS01	A22	07/01/2025	9071B
Q2487-12	G3(6-12)	Solid	Oil and Grease	Cool 4 deg C	WALS01	A22	07/01/2025	9071B
Q2487-13	G2(0-6)	Solid	Oil and Grease	Cool 4 deg C	WALS01	A22	07/01/2025	9071B
Q2487-14	G2(6-12)	Solid	Oil and Grease	Cool 4 deg C	WALS01	A22	07/01/2025	9071B
Q2487-15	G1(0-6)	Solid	Oil and Grease	Cool 4 deg C	WALS01	A22	07/01/2025	9071B
Q2487-16	G1(6-12)	Solid	Oil and Grease	Cool 4 deg C	WALS01	A22	07/01/2025	9071B

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

07/10/25 12:50

Se Wei

CSR

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

07/10/25

17:33

Wen

Se Wei

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A

Start Digest Date: 07/07/2025 Time : 10:45 Temp : 380 °C

Matrix : SOIL

End Digest Date: 07/07/2025 Time : 12:15 Temp : 385 °C

Pipette ID : WC

Start Distillation Date: 07/07/2025 Time : 12:45 Temp : 150 °C

Balance ID : WC SC-7

End Distillation Date: 07/07/2025 Time : 13:45 Temp : 160 °C

Hood ID : HOOD#2&3

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature:

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature:

Standard Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP113832
TKN CCV STD	50.0ML	WP113833
TKN ICV STD	50.0ML	WP113834
TKN LCS STD	50.0ML	WP113835
MS/MSD SPIKE SOL.	0.25ML	WP112611

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP113135
TKN DISTILLATION BUFFER	10.0ML	WP112079
H2SO4 0.04N	5.0ML	WP112828
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:

RL CHECK 10ML FROM WP113833,ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/07/2025 15:25	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
PB168731BL	PBS731	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168731BS	LCS731	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09DUP	G4(0-6)DUP	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09MS	G4(0-6)MS	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09MSD	G4(0-6)MSD	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09	G4(0-6)	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-10	G4(6-12)	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-11	G3(0-6)	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-12	G3(6-12)	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-13	G2(0-6)	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-14	G2(6-12)	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-15	G1(0-6)	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-16	G1(6-12)	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

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

Weigh By : RM

Start Digest Date: 07/08/2025 Time : 12:40 Temp : 90 °C

End Digest Date: 07/08/2025 Time : 13:40 Temp : 93 °C

lib dch 07/08/2025 14:00 90 °C
07/08/2025 15:00 95 °C

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Filter paper ID : 400213

Prep Technician Signature: RY

pH Meter ID : WC pH meter-1

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50.ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP112903
HEX. DIGESTION SOLN.	50.0ML	WP113608
5M HNO3	5-7ML	WP112830
5N H2SO4	1-3ML	WP112831
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	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP113839
CAL3	CAL3	0.5ML	WP113839
CAL4	CAL4	1ML	WP113839
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

07/08/2025 RY

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
PB168732BL	PBS732	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB168732BS	LCS732	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09	G4(0-6)	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-10	G4(6-12)	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-11	G3(0-6)	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-12	G3(6-12)	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-13	G2(0-6)	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-14	G2(6-12)	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-15	G1(0-6)	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-16	G1(6-12)	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2493-01	WC-11	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2517-01	TP-14	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2517-01DUP	TP-14DUP	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2517-01MSPre	TP-14MSPRE	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2517-01MS2Ins	TP-14MS2INS	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2517-01MS3Post	TP-14MS3POST	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A

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

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : JP

Start Digest Date: 07/07/2025 Time : 10:05 Temp : 124 °C

End Digest Date: 07/07/2025 Time : 11:35 Temp : 126 °C

 11:00 07/07/2025 12:16 124°C
 07/07/2025 13:40 126°C

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Filter paper ID : N/A

 Prep Technician Signature: 

pH Meter ID : N/A

Supervisor Signature: 12

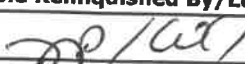
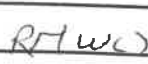
Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP112995
MS/MSD SPIKE SOL.	0.40ML	WP113319
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
50% v/v H2SO4	5.0ML	WP112826
51% w/v MgCL2	2.0ML	WP112827
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	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	N/A	AS PER PB168730
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	AS PER PB168730
LOWSTD	LOWSTD	N/A	AS PER PB168730

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/07/2025 13:50		
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168749BL	PBS749	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168749BS	LCS749	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09DUP	G4(0-6)DUP	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09MS	G4(0-6)MS	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09MSD	G4(0-6)MSD	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-09	G4(0-6)	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-10	G4(6-12)	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-11	G3(0-6)	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-12	G3(6-12)	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-13	G2(0-6)	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-14	G2(6-12)	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-15	G1(0-6)	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2487-16	G1(6-12)	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2515-01	WC-1	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : cynaid-7-7

WorkList ID : 190563

Department : Distillation

Date : 07-07-2025 07:25:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-09	G4(0-6)	Solid	Cyanide	Cool 4 deg C	WALS01	A53	07/01/2025	9012B
Q2487-10	G4(6-12)	Solid	Cyanide	Cool 4 deg C	WALS01	A53	07/01/2025	9012B
Q2487-11	G3(0-6)	Solid	Cyanide	Cool 4 deg C	WALS01	A53	07/01/2025	9012B
Q2487-12	G3(6-12)	Solid	Cyanide	Cool 4 deg C	WALS01	A53	07/01/2025	9012B
Q2487-13	G2(0-6)	Solid	Cyanide	Cool 4 deg C	WALS01	A53	07/01/2025	9012B
Q2487-14	G2(6-12)	Solid	Cyanide	Cool 4 deg C	WALS01	A53	07/01/2025	9012B
Q2487-15	G1(0-6)	Solid	Cyanide	Cool 4 deg C	WALS01	A53	07/01/2025	9012B
Q2487-16	G1(6-12)	Solid	Cyanide	Cool 4 deg C	WALS01	A53	07/01/2025	9012B
Q2515-01	wc-1	Solid	Cyanide	Cool 4 deg C	ENVO01	O23	07/03/2025	9012B

Date/Time 07/07/2025 09:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 07/07/2025 12:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

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

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : RM

Start Digest Date: 07/08/2025 Time : 13:00 Temp : 150 °C

End Digest Date: 07/08/2025 Time : 14:00 Temp : 157 °C

 11 batch 07/08/2025 14.25 150°C
 07/08/2025 15.25 160°C

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Filter paper ID : N/A

Prep Technician Signature: RM

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP113449
MS/MSD SPIKE SOL.	1.0ML	WP113450
PBS003	50.0ML	W3112
RL CHECK	0.1ML	WP113450
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
H2SO4 0.04N	5.0ML	WP112828
pH strip-Ammonia	N/A	W3133
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:

 ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
 WP111604,

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/08/2025 15.35	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
PB168757BL	PBS757	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB168757BS	LCS757	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-09DUP	G4(0-6)DUP	1.03	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-09MS	G4(0-6)MS	1.04	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-09MSD	G4(0-6)MSD	1.04	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-09	G4(0-6)	1.03	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-10	G4(6-12)	1.01	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-11	G3(0-6)	1.04	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-12	G3(6-12)	1.01	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-13	G2(0-6)	1.03	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q2487-14	G2(6-12)	1.04	50	N/A	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2487-15	G1(0-6)	1.02	50	N/A	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q2487-16	G1(6-12)	1.01	50	N/A	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

Instrument ID: FILTER/GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB136381

Review By	rubina	Review On	7/7/2025 12:21:49 PM
Supervise By	Iwona	Supervise On	7/7/2025 12:22:58 PM
SubDirectory	LB136381	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	Q2487-09	G4(0-6)	SAM	07/07/25 08:15		rubina	OK
2	Q2487-09DUP	G4(0-6)DUP	DUP	07/07/25 08:23		rubina	OK
3	Q2487-10	G4(6-12)	SAM	07/07/25 08:31		rubina	OK
4	Q2487-11	G3(0-6)	SAM	07/07/25 08:38		rubina	OK
5	Q2487-12	G3(6-12)	SAM	07/07/25 08:45		rubina	OK
6	Q2487-13	G2(0-6)	SAM	07/07/25 08:52		rubina	OK
7	Q2487-14	G2(6-12)	SAM	07/07/25 09:00		rubina	OK
8	Q2487-15	G1(0-6)	SAM	07/07/25 09:07		rubina	OK
9	Q2487-16	G1(6-12)	SAM	07/07/25 09:15		rubina	OK
10	Q2491-01	EO-1-070225	SAM	07/07/25 09:22		rubina	OK
11	Q2493-01	WC-11	SAM	07/07/25 09:30		rubina	OK
12	Q2507-01	SU-04-7.3-2025	SAM	07/07/25 09:38		rubina	OK
13	Q2513-01	HR-2-070325	SAM	07/07/25 09:45		rubina	OK
14	Q2513-03	HR-3-070325	SAM	07/07/25 09:53		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB136383

Review By	jignesh	Review On	7/8/2025 2:58:29 PM
Supervise By	Iwona	Supervise On	7/8/2025 3:06:16 PM
SubDirectory	LB136383	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	LB136383BL	LB136383BL	MB	07/07/25 16:00		jignesh	OK
2	Q2487-09	G4(0-6)	SAM	07/07/25 16:00		jignesh	OK
3	Q2487-09DUP	G4(0-6)DUP	DUP	07/07/25 16:00		jignesh	OK
4	Q2487-10	G4(6-12)	SAM	07/07/25 16:00		jignesh	OK
5	Q2487-11	G3(0-6)	SAM	07/07/25 16:00		jignesh	OK
6	Q2487-12	G3(6-12)	SAM	07/07/25 16:00		jignesh	OK
7	Q2487-13	G2(0-6)	SAM	07/07/25 16:00		jignesh	OK
8	Q2487-14	G2(6-12)	SAM	07/07/25 16:00		jignesh	OK
9	Q2487-15	G1(0-6)	SAM	07/07/25 16:00		jignesh	OK
10	Q2487-16	G1(6-12)	SAM	07/07/25 16:00		jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136387

Review By	rubina	Review On	7/8/2025 1:13:21 PM
Supervise By	Iwona	Supervise On	7/8/2025 1:14:40 PM
SubDirectory	LB136387	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP113823,WP113824,WP113825,WP113826,WP113827,WP113828,WP113829		
ICV Standard	W3012		
CCV Standard	WP113824		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112995		
Chk Standard	WP112643,WP112900,WP113831		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	07/07/25 10:39		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	07/07/25 10:39		rubina	OK
3	10PPBCN	10PPBCN	CAL3	07/07/25 10:39		rubina	OK
4	50PPBCN	50PPBCN	CAL4	07/07/25 10:39		rubina	OK
5	100PPBCN	100PPBCN	CAL5	07/07/25 10:39		rubina	OK
6	250PPBCN	250PPBCN	CAL6	07/07/25 10:39		rubina	OK
7	500PPBCN	500PPBCN	CAL7	07/07/25 10:39		rubina	OK
8	ICV1	ICV1	ICV	07/07/25 14:28		rubina	OK
9	ICB1	ICB1	ICB	07/07/25 14:28		rubina	OK
10	CCV1	CCV1	CCV	07/07/25 14:28		rubina	OK
11	CCB1	CCB1	CCB	07/07/25 14:28		rubina	OK
12	PB168749BL	PB168749BL	MB	07/07/25 14:28		rubina	OK
13	PB168749BS	PB168749BS	LCS	07/07/25 14:35		rubina	OK
14	Q2487-09	G4(0-6)	SAM	07/07/25 14:35		rubina	OK
15	Q2487-09DUP	G4(0-6)DUP	DUP	07/07/25 14:35		rubina	OK
16	Q2487-09MS	G4(0-6)MS	MS	07/07/25 14:35		rubina	OK
17	Q2487-09MSD	G4(0-6)MSD	MSD	07/07/25 14:35		rubina	OK
18	Q2487-10	G4(6-12)	SAM	07/07/25 14:35		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136387

Review By	rubina	Review On	7/8/2025 1:13:21 PM
Supervise By	Iwona	Supervise On	7/8/2025 1:14:40 PM
SubDirectory	LB136387	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP113823,WP113824,WP113825,WP113826,WP113827,WP113828,WP113829		
ICV Standard	W3012		
CCV Standard	WP113824		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112995		
Chk Standard	WP112643,WP112900,WP113831		

19	Q2487-11	G3(0-6)	SAM	07/07/25 14:35		rubina	OK
20	Q2487-12	G3(6-12)	SAM	07/07/25 14:35		rubina	OK
21	Q2487-13	G2(0-6)	SAM	07/07/25 14:35		rubina	OK
22	CCV2	CCV2	CCV	07/07/25 14:35		rubina	OK
23	CCB2	CCB2	CCB	07/07/25 14:35		rubina	OK
24	Q2487-14	G2(6-12)	SAM	07/07/25 14:41		rubina	OK
25	Q2487-15	G1(0-6)	SAM	07/07/25 14:41		rubina	OK
26	Q2487-16	G1(6-12)	SAM	07/07/25 14:41		rubina	OK
27	Q2515-01	WC-1	SAM	07/07/25 14:41		rubina	OK
28	CCV3	CCV3	CCV	07/07/25 14:41		rubina	OK
29	CCB3	CCB3	CCB	07/07/25 14:42		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB136393

Review By	jignesh	Review On	7/8/2025 2:43:53 PM
Supervise By	Iwona	Supervise On	7/8/2025 3:06:01 PM
SubDirectory	LB136393	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	LB136393BL	LB136393BL	MB	07/07/25 11:00		jignesh	OK
2	Q2487-09	G4(0-6)	SAM	07/07/25 11:00		jignesh	OK
3	Q2487-09DUP	G4(0-6)DUP	DUP	07/07/25 11:00		jignesh	OK
4	Q2487-10	G4(6-12)	SAM	07/07/25 11:00		jignesh	OK
5	Q2487-11	G3(0-6)	SAM	07/07/25 11:00		jignesh	OK
6	Q2487-12	G3(6-12)	SAM	07/07/25 11:00		jignesh	OK
7	Q2487-13	G2(0-6)	SAM	07/07/25 11:00		jignesh	OK
8	Q2487-14	G2(6-12)	SAM	07/07/25 11:00		jignesh	OK
9	Q2487-15	G1(0-6)	SAM	07/07/25 11:00		jignesh	OK
10	Q2487-16	G1(6-12)	SAM	07/07/25 11:00		jignesh	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136397

Review By	rubina	Review On	7/8/2025 4:24:26 PM
Supervise By	Iwona	Supervise On	7/9/2025 9:00:41 AM
SubDirectory	LB136397	Test	Hexavalent Chromium
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	WP113840,WP112831,WP112830,WP113087		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	07/08/25 15:40		rubina	OK
2	CAL2	CAL2	CAL	07/08/25 15:41		rubina	OK
3	CAL3	CAL3	CAL	07/08/25 15:42		rubina	OK
4	CAL4	CAL4	CAL	07/08/25 15:43		rubina	OK
5	CAL5	CAL5	CAL	07/08/25 15:44		rubina	OK
6	CAL6	CAL6	CAL	07/08/25 15:45		rubina	OK
7	CAL7	CAL7	CAL	07/08/25 15:46		rubina	OK
8	ICV	ICV	ICV	07/08/25 15:47		rubina	OK
9	ICB	ICB	ICB	07/08/25 15:48		rubina	OK
10	CCV1	CCV1	CCV	07/08/25 15:49		rubina	OK
11	CCB1	CCB1	CCB	07/08/25 15:50		rubina	OK
12	RL Check	RL Check	RL	07/08/25 15:51		rubina	OK
13	PB168732BL	PB168732BL	MB	07/08/25 15:52		rubina	OK
14	PB168732BS	PB168732BS	LCS	07/08/25 15:53		rubina	OK
15	Q2487-09	G4(0-6)	SAM	07/08/25 15:54		rubina	OK
16	Q2487-10	G4(6-12)	SAM	07/08/25 15:55		rubina	OK
17	Q2487-11	G3(0-6)	SAM	07/08/25 15:56		rubina	OK
18	Q2487-12	G3(6-12)	SAM	07/08/25 15:57		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136397

Review By	rubina	Review On	7/8/2025 4:24:26 PM
Supervise By	Iwona	Supervise On	7/9/2025 9:00:41 AM
SubDirectory	LB136397	Test	Hexavalent Chromium
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	WP113840,WP112831,WP112830,WP113087		

19	Q2487-13	G2(0-6)	SAM	07/08/25 15:58		rubina	OK
20	Q2487-14	G2(6-12)	SAM	07/08/25 15:59		rubina	OK
21	Q2487-15	G1(0-6)	SAM	07/08/25 16:00		rubina	OK
22	Q2487-16	G1(6-12)	SAM	07/08/25 16:01		rubina	OK
23	CCV2	CCV2	CCV	07/08/25 16:02		rubina	OK
24	CCB2	CCB2	CCB	07/08/25 16:03		rubina	OK
25	Q2493-01	WC-11	SAM	07/08/25 16:04		rubina	OK
26	Q2517-01	TP-14	SAM	07/08/25 16:05		rubina	OK
27	Q2517-01DUP	TP-14DUP	DUP	07/08/25 16:06		rubina	OK
28	Q2517-01MSPre	TP-14MS	MS	07/08/25 16:07		rubina	OK
29	Q2517-01MS2Ins	TP-14MS	MS	07/08/25 16:08		rubina	OK
30	Q2517-01MS3Post	TP-14MS	MS	07/08/25 16:09		rubina	OK
31	CCV3	CCV3	CCV	07/08/25 16:10		rubina	OK
32	CCB3	CCB3	CCB	07/08/25 16:11		rubina	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB136399

Review By	Iwona	Review On	7/8/2025 4:08:29 PM
Supervise By	jignesh	Supervise On	7/8/2025 4:09:31 PM
SubDirectory	LB136399	Test	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	WP113238,WP113237,WP113235,WP113234,WP113233,WP113240,WP113236,W3129,WP113843,WP113844,WP1		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/28/25 13:10		Iwona	OK
2	CAL2	CAL2	CAL	05/28/25 13:10		Iwona	OK
3	CAL3	CAL3	CAL	05/28/25 13:11		Iwona	OK
4	CAL4	CAL4	CAL	05/28/25 13:11		Iwona	OK
5	CAL5	CAL5	CAL	05/28/25 13:12		Iwona	OK
6	CAL6	CAL6	CAL	05/28/25 13:12		Iwona	OK
7	ICV	ICV	ICV	05/28/25 13:13		Iwona	OK
8	ICB	ICB	ICB	05/28/25 13:13		Iwona	OK
9	CCV1	CCV1	CCV	07/08/25 15:00		Iwona	OK
10	CCB1	CCB1	CCB	07/08/25 15:00		Iwona	OK
11	RL Check	RL Check	RL	07/08/25 15:01		Iwona	OK
12	LB136399BL	LB136399BL	MB	07/08/25 15:01		Iwona	OK
13	LB136399BS	LB136399BS	LCS	07/08/25 15:02		Iwona	OK
14	Q2487-09	G4(0-6)	SAM	07/08/25 15:02		Iwona	OK
15	Q2487-09DUP	G4(0-6)DUP	DUP	07/08/25 15:03		Iwona	OK
16	Q2487-09MS	G4(0-6)MS	MS	07/08/25 15:03		Iwona	OK
17	Q2487-09MSD	G4(0-6)MSD	MSD	07/08/25 15:04		Iwona	OK
18	Q2487-10	G4(6-12)	SAM	07/08/25 15:04		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB136399

Review By	Iwona	Review On	7/8/2025 4:08:29 PM
Supervise By	jignesh	Supervise On	7/8/2025 4:09:31 PM
SubDirectory	LB136399	Test	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	WP113238,WP113237,WP113235,WP113234,WP113233,WP113240,WP113236,W3129,WP113843,WP113844,WP1		

19	Q2487-11	G3(0-6)	SAM	07/08/25 15:05		Iwona	OK
20	Q2487-12	G3(6-12)	SAM	07/08/25 15:05		Iwona	OK
21	Q2487-13	G2(0-6)	SAM	07/08/25 15:06		Iwona	OK
22	CCV2	CCV2	CCV	07/08/25 15:06		Iwona	OK
23	CCB2	CCB2	CCB	07/08/25 15:07		Iwona	OK
24	Q2487-14	G2(6-12)	SAM	07/08/25 15:07		Iwona	OK
25	Q2487-15	G1(0-6)	SAM	07/08/25 15:08		Iwona	OK
26	Q2487-16	G1(6-12)	SAM	07/08/25 15:08		Iwona	OK
27	CCV3	CCV3	CCV	07/08/25 15:09		Iwona	OK
28	CCB3	CCB3	CCB	07/08/25 15:09		Iwona	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136405

Review By	rubina	Review On	7/10/2025 12:27:55 PM
Supervise By	Iwona	Supervise On	7/10/2025 12:57:25 PM
SubDirectory	LB136405	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113849		
ICV Standard	WP113850		
CCV Standard	WP113850		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113449		
Chk Standard	WP113852,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	07/09/25 09:20		rubina	OK
2	0.1PPM	0.1PPM	CAL2	07/09/25 09:20		rubina	OK
3	0.2PPM	0.2PPM	CAL3	07/09/25 09:20		rubina	OK
4	0.4PPM	0.4PPM	CAL4	07/09/25 09:21		rubina	OK
5	1.0PPM	1.0PPM	CAL5	07/09/25 09:21		rubina	OK
6	1.3PPM	1.3PPM	CAL6	07/09/25 09:21		rubina	OK
7	2.0PPM	2.0PPM	CAL7	07/09/25 09:21		rubina	OK
8	ICV1	ICV1	ICV	07/09/25 10:03		rubina	OK
9	ICB1	ICB1	ICB	07/09/25 10:03		rubina	OK
10	CCV1	CCV1	CCV	07/09/25 10:03		rubina	OK
11	CCB1	CCB1	CCB	07/09/25 10:03		rubina	OK
12	RL	RL	SAM	07/09/25 10:03		rubina	OK
13	PB168757BL	PB168757BL	MB	07/09/25 10:14		rubina	OK
14	PB168757BS	PB168757BS	LCS	07/09/25 10:14		rubina	OK
15	Q2487-09	G4(0-6)	SAM	07/09/25 10:14		rubina	OK
16	Q2487-09DUP	G4(0-6)DUP	DUP	07/09/25 10:14		rubina	OK
17	Q2487-09MS	G4(0-6)MS	MS	07/09/25 10:14		rubina	OK
18	Q2487-09MSD	G4(0-6)MSD	MSD	07/09/25 10:14		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136405

Review By	rubina	Review On	7/10/2025 12:27:55 PM
Supervise By	Iwona	Supervise On	7/10/2025 12:57:25 PM
SubDirectory	LB136405	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113849		
ICV Standard	WP113850		
CCV Standard	WP113850		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113449		
Chk Standard	WP113852,WP111745,WP111385,WP111660		

19	Q2487-10	G4(6-12)	SAM	07/09/25 10:14		rubina	OK
20	Q2487-11	G3(0-6)	SAM	07/09/25 10:14		rubina	OK
21	Q2487-12	G3(6-12)	SAM	07/09/25 10:25		rubina	OK
22	CCV2	CCV2	CCV	07/09/25 10:25		rubina	OK
23	CCB2	CCB2	CCB	07/09/25 10:25		rubina	OK
24	Q2487-13	G2(0-6)	SAM	07/09/25 10:25		rubina	OK
25	Q2487-14	G2(6-12)	SAM	07/09/25 10:25		rubina	OK
26	Q2487-15	G1(0-6)	SAM	07/09/25 10:25		rubina	OK
27	Q2487-16	G1(6-12)	SAM	07/09/25 10:25		rubina	OK
28	PB168758BL	PB168758BL	MB	07/09/25 10:25		rubina	OK
29	PB168758BS	PB168758BS	LCS	07/09/25 10:36		rubina	OK
30	Q2512-01	WATER TREATMENT	SAM	07/09/25 10:36	High	rubina	Dilution
31	Q2512-01DUP	WATER TREATMENT	DUP	07/09/25 10:36	High	rubina	Dilution
32	Q2512-01MS	WATER TREATMENT	MS	07/09/25 10:36		rubina	OK
33	Q2512-01MSD	WATER TREATMENT	MSD	07/09/25 10:36		rubina	OK
34	CCV3	CCV3	CCV	07/09/25 10:36		rubina	OK
35	CCB3	CCB3	CCB	07/09/25 10:36		rubina	OK
36	Q2525-01	EFFLUENT-COMPOS	SAM	07/09/25 10:43		rubina	OK
37	CCV4	CCV4	CCV	07/09/25 10:43		rubina	OK
38	CCB4	CCB4	CCB	07/09/25 10:43		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136405

Review By	rubina	Review On	7/10/2025 12:27:55 PM
Supervise By	Iwona	Supervise On	7/10/2025 12:57:25 PM
SubDirectory	LB136405	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113849		
ICV Standard	WP113850		
CCV Standard	WP113850		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113449		
Chk Standard	WP113852,WP111745,WP111385,WP111660		

39	Q2512-01DL	WATER TREATMENT	SAM	07/09/25 11:04	Report 2X	rubina	Confirms
40	Q2512-01DUPDL	WATER TREATMENT	DUP	07/09/25 11:04	Report 2X	rubina	Confirms
41	CCV5	CCV5	CCV	07/09/25 11:04		rubina	OK
42	CCB5	CCB5	CCB	07/09/25 11:04		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136408

Review By	rubina	Review On	7/9/2025 3:52:38 PM
Supervise By	Iwona	Supervise On	7/9/2025 4:17:54 PM
SubDirectory	LB136408	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113832		
ICV Standard	WP113834		
CCV Standard	WP113833		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113835		
Chk Standard	WP113852,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	07/09/25 11:35		rubina	OK
2	0.5PPM	0.5PPM	CAL2	07/09/25 11:35		rubina	OK
3	1.0PPM	1.0PPM	CAL3	07/09/25 11:35		rubina	OK
4	2.5PPM	2.5PPM	CAL4	07/09/25 11:35		rubina	OK
5	5.0PPM	5.0PPM	CAL5	07/09/25 11:35		rubina	OK
6	6.7PPM	6.7PPM	CAL6	07/09/25 11:35		rubina	OK
7	10.0PPM	10.0PPM	CAL7	07/09/25 11:35		rubina	OK
8	ICV1	ICV1	ICV	07/09/25 12:18		rubina	OK
9	ICB1	ICB1	ICB	07/09/25 12:18		rubina	OK
10	CCV1	CCV1	CCV	07/09/25 12:18		rubina	OK
11	CCB1	CCB1	CCB	07/09/25 12:18		rubina	OK
12	RL	RL	LOQ	07/09/25 12:18		rubina	OK
13	PB168731BL	PB168731BL	MB	07/09/25 12:18		rubina	OK
14	PB168731BS	PB168731BS	LCS	07/09/25 12:29		rubina	OK
15	Q2487-09	G4(0-6)	SAM	07/09/25 12:29		rubina	OK
16	Q2487-09DUP	G4(0-6)DUP	DUP	07/09/25 12:29		rubina	OK
17	Q2487-09MS	G4(0-6)MS	MS	07/09/25 12:29		rubina	OK
18	Q2487-09MSD	G4(0-6)MSD	MSD	07/09/25 12:29		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136408

Review By	rubina	Review On	7/9/2025 3:52:38 PM
Supervise By	Iwona	Supervise On	7/9/2025 4:17:54 PM
SubDirectory	LB136408	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113832		
ICV Standard	WP113834		
CCV Standard	WP113833		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113835		
Chk Standard	WP113852,WP111745,WP111385,WP111660		

19	Q2487-10	G4(6-12)	SAM	07/09/25 12:29	TKN is high	rubina	Dilution
20	Q2487-11	G3(0-6)	SAM	07/09/25 12:29		rubina	OK
21	Q2487-12	G3(6-12)	SAM	07/09/25 12:29	TKN is high	rubina	Dilution
22	CCV2	CCV2	CCV	07/09/25 12:39		rubina	OK
23	CCB2	CCB2	CCB	07/09/25 12:39		rubina	OK
24	Q2487-13	G2(0-6)	SAM	07/09/25 12:40		rubina	OK
25	Q2487-14	G2(6-12)	SAM	07/09/25 12:40	TKN is high	rubina	Dilution
26	Q2487-15	G1(0-6)	SAM	07/09/25 12:40		rubina	OK
27	Q2487-16	G1(6-12)	SAM	07/09/25 12:40		rubina	OK
28	PB168699BL	PB168699BL	MB	07/09/25 12:40		rubina	OK
29	PB168699BS	PB168699BS	LCS	07/09/25 12:50		rubina	OK
30	Q2470-01	SW-1	SAM	07/09/25 12:50		rubina	OK
31	Q2470-01DUP	SW-1DUP	DUP	07/09/25 12:50		rubina	OK
32	Q2470-01MS	SW-1MS	MS	07/09/25 12:50		rubina	OK
33	Q2470-01MSD	SW-1MSD	MSD	07/09/25 12:50		rubina	OK
34	CCV3	CCV3	CCV	07/09/25 12:50		rubina	OK
35	CCB3	CCB3	CCB	07/09/25 12:50		rubina	OK
36	Q2471-01	SW-1	SAM	07/09/25 12:50		rubina	OK
37	CCV4	CCV4	CCV	07/09/25 12:57		rubina	OK
38	CCB4	CCB4	CCB	07/09/25 12:57		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136408

Review By	rubina	Review On	7/9/2025 3:52:38 PM
Supervise By	Iwona	Supervise On	7/9/2025 4:17:54 PM
SubDirectory	LB136408	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113832		
ICV Standard	WP113834		
CCV Standard	WP113833		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113835		
Chk Standard	WP113852,WP111745,WP111385,WP111660		

39	Q2487-10DL	G4(6-12)DL	SAM	07/09/25 13:32	10X For TKN	rubina	Confirms
40	Q2487-12DL	G3(6-12)DL	SAM	07/09/25 13:32	5X For TKN	rubina	Confirms
41	Q2487-14DL	G2(6-12)DL	SAM	07/09/25 13:32	2X For TKN	rubina	Confirms
42	CCV5	CCV5	CCV	07/09/25 13:32		rubina	OK
43	CCB5	CCB5	CCB	07/09/25 13:32		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB136422

Review By	jignesh	Review On	7/10/2025 1:15:14 PM
Supervise By	Iwona	Supervise On	7/11/2025 1:04:54 PM
SubDirectory	LB136422	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	W3204,NA,EP2624,WP112782,NA,W3186,WP112785,NA,WP112786		

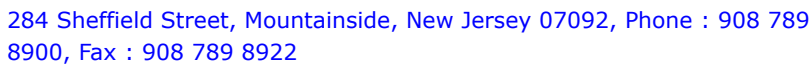
Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136422BL	LB136422BL	MB	07/10/25 14:30		jignesh	OK
2	LB136422BS	LB136422BS	LCS	07/10/25 14:30		jignesh	OK
3	Q2487-09	G4(0-6)	SAM	07/10/25 14:30		jignesh	OK
4	Q2487-09DUP	G4(0-6)DUP	DUP	07/10/25 14:30		jignesh	OK
5	Q2487-09MS	G4(0-6)MS	MS	07/10/25 14:30		jignesh	OK
6	Q2487-09MSD	G4(0-6)MSD	MSD	07/10/25 14:30		jignesh	OK
7	Q2487-10	G4(6-12)	SAM	07/10/25 14:30		jignesh	OK
8	Q2487-11	G3(0-6)	SAM	07/10/25 14:30		jignesh	OK
9	Q2487-12	G3(6-12)	SAM	07/10/25 14:30		jignesh	OK
10	Q2487-13	G2(0-6)	SAM	07/10/25 14:30		jignesh	OK
11	Q2487-14	G2(6-12)	SAM	07/10/25 14:30		jignesh	OK
12	Q2487-15	G1(0-6)	SAM	07/10/25 14:30		jignesh	OK
13	Q2487-16	G1(6-12)	SAM	07/10/25 14:30		jignesh	OK

Instrument ID: GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB136506

Review By	Ayul	Review On	7/16/2025 2:58:02 PM
Supervise By	amarnath	Supervise On	7/16/2025 2:58:55 PM
SubDirectory	LB136506	Test	Trivalent Chromium
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	Q2487-15	G1(0-6)	SAM	07/09/25 17:14		Ayul	OK
2	Q2487-09	G4(0-6)	SAM	07/09/25 18:12		Ayul	OK
3	Q2487-10	G4(6-12)	SAM	07/09/25 18:17		Ayul	OK
4	Q2487-11	G3(0-6)	SAM	07/09/25 18:21		Ayul	OK
5	Q2487-12	G3(6-12)	SAM	07/09/25 18:26		Ayul	OK
6	Q2487-13	G2(0-6)	SAM	07/09/25 18:31		Ayul	OK
7	Q2487-16	G1(6-12)	SAM	07/09/25 19:03		Ayul	OK
8	Q2487-14	G2(6-12)	SAM	07/09/25 21:03		Ayul	OK



Order ID :	Q2487
Test :	Ammonia,COD,Cyanide,Hexavalent Chromium,Oil and Grease,Paint Filter,Percent Solids,TKN,Trivalent Chromium,TS,TVS
Prepbatch ID :	PB168731,PB168732,PB168749,PB168757,
Sequence ID/Qc Batch ID:	LB136381,LB136383,LB136387,LB136393,LB136397,LB136399,LB136405,LB136408,LB136422,LB136425,LB136427,LB136428,LB136429,LB136430,LB136431,LB136432,LB136433,LB136434,LB136435,LB136436,LB136437,LB136438,LB136439,LB136440,LB136441,LB136442,LB136443,LB136444,LB136445,LB136446,LB136447,LB136448,LB136449,LB136450,LB136451,LB136452,LB136453,LB136454,LB136455,LB136456,LB136457,LB136458,LB136459,LB136460,LB136461,LB136462,LB136463,LB136464,LB136465,LB136466,LB136467,LB136468,LB136469,LB136470,LB136471,LB136472,LB136473,LB136474,LB136475,LB136476,LB136477,LB136478,LB136479,LB136480,LB136481,LB136482,LB136483,LB136484,LB136485,LB136486,LB136487,LB136488,LB136489,LB136490,LB136491,LB136492,LB136493,LB136494,LB136495,LB136496,LB136497,LB136498,LB136499,LB136500,LB136501,LB136502,LB136503,LB136504,LB136505,LB136506,LB136507,LB136508,LB136509,LB136510,LB136511,LB136512,LB136513,LB136514,LB136515,LB136516,LB136517,LB136518,LB136519,LB136520,LB136521,LB136522,LB136523,LB136524,LB136525,LB136526,LB136527,LB136528,LB136529,LB136530,LB136531,LB136532,LB136533,LB136534,LB136535,LB136536,LB136537,LB136538,LB136539,LB136540,LB136541,LB136542,LB136543,LB136544,LB136545,LB136546,LB136547,LB136548,LB136549,LB136550,LB136551,LB136552,LB136553,LB136554,LB136555,LB136556,LB136557,LB136558,LB136559,LB136560,LB136561,LB136562,LB136563,LB136564,LB136565,LB136566,LB136567,LB136568,LB136569,LB136570,LB136571,LB136572,LB136573,LB136574,LB136575,LB136576,LB136577,LB136578,LB136579,LB136580,LB136581,LB136582,LB136583,LB136584,LB136585,LB136586,LB136587,LB136588,LB136589,LB136590,LB136591,LB136592,LB136593,LB136594,LB136595,LB136596,LB136597,LB136598,LB136599,LB136600,LB136601,LB136602,LB136603,LB136604,LB136605,LB136606,LB136607,LB136608,LB136609,LB136610,LB136611,LB136612,LB136613,LB136614,LB136615,LB136616,LB136617,LB136618,LB136619,LB136620,LB136621,LB136622,LB136623,LB136624,LB136625,LB136626,LB136627,LB136628,LB136629,LB136630,LB136631,LB136632,LB136633,LB136634,LB136635,LB136636,LB136637,LB136638,LB136639,LB136640,LB136641,LB136642,LB136643,LB136644,LB136645,LB136646,LB136647,LB136648,LB136649,LB136650,LB136651,LB136652,LB136653,LB136654,LB136655,LB136656,LB136657,LB136658,LB136659,LB136660,LB136661,LB136662,LB136663,LB136664,LB136665,LB136666,LB136667,LB136668,LB136669,LB136670,LB136671,LB136672,LB136673,LB136674,LB136675,LB136676,LB136677,LB136678,LB136679,LB136680,LB136681,LB136682,LB136683,LB136684,LB136685,LB136686,LB136687,LB136688,LB136689,LB136690,LB136691,LB136692,LB136693,LB136694,LB136695,LB136696,LB136697,LB136698,LB136699,LB136700,LB136701,LB136702,LB136703,LB136704,LB136705,LB136706,LB136707,LB136708,LB136709,LB136710,LB136711,LB136712,LB136713,LB136714,LB136715,LB136716,LB136717,LB136718,LB136719,LB136720,LB136721,LB136722,LB136723,LB136724,LB136725,LB136726,LB136727,LB136728,LB136729,LB136730,LB136731,LB136732,LB136733,LB136734,LB136735,LB136736,LB136737,LB136738,LB136739,LB136740,LB136741,LB136742,LB136743,LB136744,LB136745,LB136746,LB136747,LB136748,LB136749,LB136750,LB136751,LB136752,LB136753,LB136754,LB136755,LB136756,LB136757,LB136758,LB136759,LB136760,LB136761,LB136762,LB136763,LB136764,LB136765,LB136766,LB136767,LB136768,LB136769,LB136770,LB136771,LB136772,LB136773,LB136774,LB136775,LB136776,LB136777,LB136778,LB136779,LB136780,LB136781,LB136782,LB136783,LB136784,LB136785,LB136786,LB136787,LB136788,LB136789,LB136790,LB136791,LB136792,LB136793,LB136794,LB136795,LB136796,LB136797,LB136798,LB136799,LB136800,LB136801,LB136802,LB136803,LB136804,LB136805,LB136806,LB136807,LB136808,LB136809,LB136810,LB136811,LB136812,LB136813,LB136814,LB136815,LB136816,LB136817,LB136818,LB136819,LB136820,LB136821,LB136822,LB136823,LB136824,LB136825,LB136826,LB136827,LB136828,LB136829,LB136830,LB136831,LB136832,LB136833,LB136834,LB136835,LB136836,LB136837,LB136838,LB136839,LB136840,LB136841,LB136842,LB136843,LB136844,LB136845,LB136846,LB136847,LB136848,LB136849,LB136850,LB136851,LB136852,LB136853,LB136854,LB136855,LB136856,LB136857,LB136858,LB136859,LB136860,LB136861,LB136862,LB136863,LB136864,LB136865,LB136866,LB136867,LB136868,LB136869,LB136870,LB136871,LB136872,LB136873,LB136874,LB136875,LB136876,LB136877,LB136878,LB136879,LB136880,LB136881,LB136882,LB136883,LB136884,LB136885,LB136886,LB136887,LB136888,LB136889,LB136890,LB136891,LB136892,LB136893,LB136894,LB136895,LB136896,LB136897,LB136898,LB136899,LB136900,LB136901,LB136902,LB136903,LB136904,LB136905,LB136906,LB136907,LB136908,LB136909,LB136910,LB1369

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<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	EP2624	06/26/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 06/26/2025
<u>FROM</u> 4000.00000gram of E3551 = 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	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 01/07/2025
<u>FROM</u> 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 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>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP111315	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 0.14140gram of W2651 + 1000.00000ml 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>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP111316	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 0.14140gram of W2652 + 1000.00000ml 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>
1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 4.00000gram of W3113 + 996.00000ml 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>
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 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>
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 100.00000L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP111317 = Final Quantity: 100.000 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>
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 01/13/2025
<u>FROM</u> 3.20000gram of W3113 + 8.30000gram of W2858 + 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	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCS-7)	None	Iwona Zarych 01/28/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml 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>
289	Sodium Hypochlorite for Ammonia	WP111745	02/03/2025	07/31/2025	Rubina Mughal	None	None	Iwona Zarych 02/03/2025
<u>FROM</u> 50.00000ml of W3112 + 50.00000ml of W3174 = 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>
1338	TKN DISTILLING BUFFER	WP112079	02/27/2025	08/27/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCS-7)	None	Iwona Zarych 02/27/2025
<u>FROM</u> 0.47500L of W3112 + 25.00000gram of W3148 + 500.00000gram of W3113 = 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>
153	Ammonia Stock Std. (1000 ppm)	WP112611	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<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	WP112612	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<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>
539	CN BUFFER	WP112643	04/09/2025	10/09/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 04/09/2025
<u>FROM</u>	138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml							

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229	1:1 HCL	WP112782	04/22/2025	08/18/2025	Jignesh Parikh	None	None	Iwona Zarych
								04/22/2025

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

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3931	Spiking std for 9071B	WP112785	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
								04/22/2025

FROM 1.00000gram of W2817 + 1.00000gram of W2871 + 1000.00000ml of E3917 = 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	WP112786	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WCS-7)	None	Iwona Zarych 04/22/2025
<u>FROM</u>	1.00000gram of W3009 + 1.00000gram of W3082 + 1000.00000L of E3917 = 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>
1714	Sulfuric Acid, 50% (v/v)	WP112826	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych 04/25/2025
<u>FROM</u> 1000.00000ml of M6041 + 1000.00000ml of W3112 = Final Quantity: 2000.000 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>
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP112827	04/25/2025	10/25/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 04/25/2025
<u>FROM</u> 500.00000ml of W3112 + 510.00000gram of W3152 = 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>
1597	0.04 N H2SO4	WP112828	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/25/2025
<u>FROM</u> 1.00000ml of M6041 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml								

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<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>
1836	HNO3 Hex-Chrome, 5M	WP112830	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych
								04/25/2025

FROM 320.00000ml of M6158 + 680.00000ml 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>
126	5N sulfuric acid	WP112831	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych
								04/25/2025

FROM 140.00000ml of M6041 + 860.00000ml 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>
607	PYRIDINE-BARBITURIC ACID	WP112900	05/01/2025	08/18/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	Glass Pipette-A	Iwona Zarych 05/01/2025
<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>
190	HEX CHROME PHOSPHATE BUFFER	WP112903	05/01/2025	11/01/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 05/01/2025
<u>FROM</u>	0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = Final Quantity: 1.000 L							

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3371	Cyanide LCS Spike Solution, 5PPM	WP112995	05/07/2025	07/07/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 05/07/2025

FROM 1.00000ml of W3173 + 199.00000ml of WP111294 = 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>
3354	Hexchrome Cleaning Solution	WP113087	05/15/2025	08/18/2025	Rubina Mughal	None	None	Iwona Zarych 05/15/2025

FROM 182.00000ml of M6151 + 727.00000ml of W3112 + 91.00000ml of M6158 = 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>
619	TKN digestion solution	WP113135	05/20/2025	11/20/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 05/20/2025
<u>FROM</u>	134.00000gram of W2983 + 134.00000ml of M6041 + 7.30000gram of W3199 + 725.00000ml 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>
2456	COD Stock std, 1000ppm	WP113231	05/28/2025	06/04/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC-5)	None	Jignesh Parikh 05/28/2025
<u>FROM</u>	0.08500gram of W2784 + 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	WP113232	05/28/2025	06/04/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/28/2025
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	WP113233	05/28/2025	06/04/2025	Iwona Zarych	None	None	Jignesh Parikh 05/28/2025
FROM 10.00000ml of W3112 = 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>
138	COD calibration std. 10 ppm	WP113234	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3	Jignesh Parikh
(WC) FROM 9.90000ml of W3112 + 0.10000ml of WP113231 = Final Quantity: 10.000 ml								

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137	COD calibration std. 50 ppm	WP113235	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025
<u>FROM</u>	9.50000ml of W3112 + 0.50000ml of WP113231 = 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	WP113236	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025
<u>FROM</u>	9.25000ml of W3112 + 0.75000ml of WP113231 = 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	WP113237	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025
<u>FROM</u> 9.00000ml of W3112 + 1.00000ml of WP113231 = 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>
135	COD calibration std. 150 ppm	WP113238	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025
<u>FROM</u>	8.50000ml of W3112 + 1.50000ml of WP113231 = 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	WP113240	05/28/2025	06/04/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/28/2025
<u>FROM</u>	9.50000ml of W3112 + 0.50000ml of WP113232 = 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>
3850	Cyanide MS-MSD spiking solution, 5PPM	WP113319	06/02/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/02/2025
<u>FROM</u> 1.00000ml of W3214 + 199.00000ml of WP111294 = 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>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP113449	06/09/2025	07/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP112612 = Final Quantity: 100.000 ml								



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1322	Ammonia Intermediate Std, 50PPM	WP113450	06/09/2025	07/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 06/10/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP112611 = 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>
148	hexchrome digestion fluid	WP113608	06/23/2025	07/23/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 06/23/2025
<u>FROM</u> 120.00000gram of W3163 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 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	WP113822	07/07/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 0.25000ml of W3214 + 49.75000ml of WP111294 = 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	WP113823	07/07/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 45.00000ml of WP111294 + 5.00000ml of WP113822 = 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	WP113824	07/07/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 2.50000ml of WP113822 + 47.50000ml of WP111294 = 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	WP113825	07/07/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
FROM 1.00000ml of WP113822 + 48.00000ml of WP111294 = 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	WP113826	07/07/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 0.50000ml of WP113822 + 49.50000ml of WP111294 = 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	WP113827	07/07/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
FROM 1.00000ml of WP113823 + 49.00000ml of WP111294 = 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	WP113828	07/07/2025	07/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 0.50000ml of WP113823 + 49.50000ml of WP111294 = 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	WP113829	07/07/2025	07/07/2025	Rubina Mughal	None	None	Iwona Zarych 07/07/2025
<u>FROM</u> 50.00000ml of WP111294 = 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	WP113831	07/07/2025	07/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	Glass Pipette-A	Iwona Zarych 07/07/2025
<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>
295	TKN Calibration Std (10 ppm)	WP113832	07/07/2025	07/14/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/07/2025
<u>FROM</u> 49.50000ml of W3112 + 0.50000ml of WP112611 = 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>
297	TKN CCV STD 5 ppm	WP113833	07/07/2025	07/14/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/07/2025
<u>FROM</u> 49.75000ml of W3112 + 0.25000ml of WP112611 = 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>
296	TKN ICV STD 5 ppm	WP113834	07/07/2025	07/14/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/07/2025
<u>FROM</u> 49.75000ml of W3112 + 0.25000ml of WP112612 = 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>
298	TKN LCS STD 5 ppm	WP113835	07/07/2025	07/14/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/07/2025
<u>FROM</u> 49.75000ml of W3112 + 0.25000ml of WP112612 = 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>
114	hexavalent chromium color reagent	WP113840	07/08/2025	07/15/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 07/08/2025
<u>FROM</u> 0.25000gram of W2979 + 50.00000ml of E3949 = 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>
2456	COD Stock std, 1000ppm	WP113841	07/08/2025	07/15/2025	Iwona Zarych	WETCHEM_SCALE_7 (WC SC-6)	None	Jignesh Parikh 07/09/2025
<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	WP113842	07/08/2025	07/15/2025	Iwona Zarych	WETCHEM_SCALE_7 (WCS-6)	None	Jignesh Parikh 07/09/2025
<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	WP113843	07/08/2025	07/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 07/09/2025
<u>FROM</u>	9.50000ml of W3112 + 0.50000ml of WP113841 = 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	WP113844	07/08/2025	07/15/2025	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 07/09/2025
<u>FROM</u>	9.50000ml of W3112 + 0.50000ml of WP113842 = 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>
4162	RL CHECK	WP113845	07/08/2025	07/15/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh

(WC)

FROM 9.90000ml of W3112 + 0.10000ml of WP113841 = 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>
275	Ammonia Calibration Std. (2 ppm)	WP113849	07/09/2025	07/09/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3	Iwona Zarych

(WC)

FROM 48.00000ml of W3112 + 2.00000ml of WP113450 = Final Quantity: 50.000 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>
285	Ammonia CCV Std. (1 ppm)	WP113850	07/09/2025	07/09/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/09/2025

FROM 49.00000ml of W3112 + 1.00000ml of WP113450 = 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>
740	sodium nitroferricyanide for ammonia	WP113852	07/09/2025	08/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 07/09/2025

FROM 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 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	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

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)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

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)	24H2762008	04/18/2027	07/08/2025 / RITESHKUMAR	07/03/2025 / RUPESH	E3949

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	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

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	08/18/2025	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-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA14125-36 / LEAD (II) CHROMATE, ACS, 500G	U19B018	01/23/2027	01/23/2017 / apatel	01/23/2017 / apatel	W2202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferrocyanide 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.	J3568-1 / Sodium Borate, 500 gms	2019111354	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2700

CHEMICAL RECEIPT LOG BOOK

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	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

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 #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	M13H048	01/07/2026	07/07/2021 / apatel	07/07/2021 / apatel	W2858

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.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3278-5 / Potassium Sulfate, 2.5 Kgs	SLCM9788	11/21/2027	11/21/2022 / lwona	11/21/2022 / lwona	W2983

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2025	01/08/2025 / lwona	02/20/2020 / lwona	W3012

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 #
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

CHEMICAL RECEIPT LOG BOOK

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	13821	10/31/2027	06/16/2025 / lwona	07/25/2024 / lwona	W3129

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

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.	J3946-1 / Sodium Thiosulfate Pentahydrate, 500 gms	MKCW3077	07/31/2029	10/07/2024 / lwona	10/07/2024 / lwona	W3148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Magnesium Chloride Hexahydrate ACS 10KG	002126-2019-201	11/25/2029	11/25/2024 / lwona	11/25/2024 / lwona	W3152

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-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	24E3156178	09/30/2027	12/10/2024 / lwona	12/10/2024 / lwona	W3163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	24H0856239	04/19/2028	01/03/2025 / lwona	01/03/2025 / lwona	W3168

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

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	45010168	07/17/2025	01/24/2025 / lwona	01/24/2025 / lwona	W3173

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	2501J28	07/31/2025	01/24/2025 / lwona	01/24/2025 / lwona	W3174

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

CHEMICAL RECEIPT LOG BOOK

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 #
PCI Scientific Supply, Inc.	0330-500G / Cupric Sulfate Pentahydrate	24H0956271	05/31/2027	04/11/2025 / lwona	04/11/2025 / lwona	W3199

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	WXBFB3271V	05/16/2029	04/21/2025 / lwona	04/21/2025 / lwona	W3203

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)	25c0362005	04/30/2026	04/22/2025 / jignesh	04/18/2025 / jignesh	W3204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYST, ACS, 500G	MKCC1379	01/31/2029	04/29/2025 / lwona	04/29/2025 / lwona	W3206

CHEMICAL RECEIPT LOG BOOK

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.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	2025040493	06/30/2030	06/26/2025 / Iwona	06/26/2025 / Iwona	W3219

Certificate of analysis

Product No. 14125
Product: Lead(II) chromate, ACS, 98%
Lot No.: U19B018

Test	Limits	Results
Assay	98.0 % min	99.3 %
Soluble matter	0.15 % max	< 0.02 %
Carbon compounds	0.01 % max	< 0.01 %

Traceable to NIST? Yes

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S C I E N T I F I C

Product No.: 13450
Product: Potassium dichromate, ACS, 99.0% min
Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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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
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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

W2858 Received by AP on 07/07/2021

Product No.: 33213
Product: Phenol, ACS, 99+%, stab.
Lot No.: M13H048

Test	Limits	Results
Assay	99.0 % min	99.8 %
Freezing point	40.5°C min	40.5 °C
Clarity of solution	To pass test	Passes
Residue after evaporation	0.05 % max	< 0.05 %
Water	0.5 % max	0.2 %

Retest date: January 7, 2026

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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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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: QIQXTHQIDYTFRH-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.

~~112778~~ W2983
Rec. 11/21/22 12

Product Name:

Certificate of Analysis**Potassium sulfate - ReagentPlus® , ≥99.0%**

Product Number: P0772
Batch Number: SLCM9788
Brand: SIGALD
CAS Number: 7778-80-5
MDL Number: MFCD00011388
Formula: K₂O₄S
Formula Weight: 174.26 g/mol
Quality Release Date: 03 MAR 2022



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
10 g plus 150 mL, H ₂ O		
Titration with NaOH	≥ 99.0 %	99.2 %



Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri 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.



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:

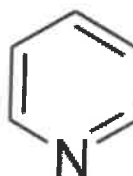
C₅H₅N

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.



Certificate Of Analysis



Date of Release: 11/14/2019

W2700 Recived by AP on 3/11/2020

Name: **Sodium Borate, Decahydrate**
ACS

Item No: **SX0355 All Sizes**

Lot / Batch No: **2019111354**

Country of Origin: **India**

Item	Specifications	Analysis
Assay (Na ₂ B ₄ O ₇ • 10H ₂ O)	99.5 - 105.0%	101.7%
Calcium (Ca)	0.005% max.	0.003%
Chloride (Cl)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy Metals (as Pb)	0.001% max.	<0.001%
Insoluble Matter	0.005% max.	0.002%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.01 M solution at 25C	9.15 - 9.20	9.17
Phosphate (PO ₄)	0.001% max.	<0.001%
Sulfate (SO ₄)	0.005% max.	<0.005%

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

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Jerusa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Certificate of Analysis

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Certificate of Analysis

1 Reagent Lane

Fair Lawn, NJ 07410

201.796.7100 tel

201.796.1329 fax

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Catalog Number	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089		
Description	POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, A.C.S.		
Country of Origin	Spain	Suggested Retest Date	Jun/2025
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	WHITE CRYSTALS
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03
CHLORINE COMPOUNDS	%	<= 0.003	<0.003
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00
SODIUM (Na)	%	<= 0.005	<0.005
SULFUR COMPOUNDS	%	<= 0.002	<0.002%
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L



Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
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:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
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%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
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%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
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.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

Recd by RP on 03/31/25

E3917

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

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

Reed on 7/2/25

E3949

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



R: 02/20/20
53

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415

For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400

For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2520	504
Sb	1010	202
As	997	199
Ba	518	104
Be	514	103
Cd	514	103
Ca	10000	2000
Cr	517	103
Co	521	104
Cu	505	101
Fe	10100	2020
Pb	1030	206
Mg	5990	1198
Mn	524	105
Ni	525	105
K	9940	1988
Se	1030	206
Ag	252	50
Na	10100	2020
Tl	1040	208
V	504	101
Zn	1010	202

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

W3011
W3012
W3013
W3014
W3015

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

avantor™



M 6041-4b
MS

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

 **avantor™**

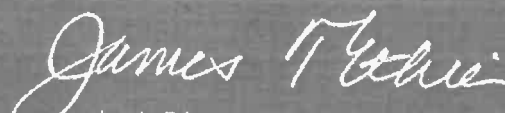


Material No.: 9673-33
Batch No.: 23D2462010

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

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

Nitric Acid 69%
CMOS

avantor™



R- 0210212025

m - 6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantorsTM**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

 **avantor™**



Material No.: 9606-03
Batch No.: 24D1062002

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

For Microelectronic Use

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



Jamie Croak
Director Quality Operations, Bioscience Production

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

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

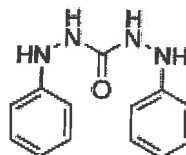
C₁₃H₁₄N₄O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022



Certificate of Analysis

Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



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 %

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ThermoFisher
S C I E N T I F I C



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

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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.

W3127 rec. 7/25/24 12
W3128 exp. 10/31/27
W3129

ENVIRONMENTAL EXPRESS
Charleston, SC USA
www.envexp.com
(800) 343-5319

October 27, 2022

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>
B1010	13821	COD Reagent Vials, 0 - 150 ppm

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$	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

Order our products online thermofisher.com/chemicals

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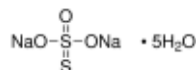
Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy 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

Product Name:

Sodium thiosulfate pentahydrate - ACS reagent, ≥99.5%

Product Number: 217247
Batch Number: MKCW3077
Brand: SIGALD
CAS Number: 10102-17-7
MDL Number: MFCD00149186
Formula: Na₂O₃S₂ · 5H₂O
Formula Weight: 248.18 g/mol
Quality Release Date: 12 JUL 2024
Recommended Retest Date: JUL 2029



Test	Specification	Result
Appearance (Color)	Colorless or White	White
Appearance (Form)	Powder or Crystals or Pellets	Crystals
ICP Major Analysis	Confirmed	Confirmed
Confirms Sodium and Sulfur Components		
Titration by Iodine	99.5 - 101.0 %	100.2 %
pH	6.0 - 8.4	6.1
c = 5%; Water; At 25 Deg C		
Insoluble Matter	≤ 0.005 %	< 0.001 %
c = 10%; Water		
Nitrogen Compounds	≤ 0.002 %	< 0.002 %
Sulfate & Sulfite (as SO ₄)	≤ 0.1 %	< 0.1 %
Sulfide	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
5 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.



Chem-Impex International, Inc.

Tel: (630) 766-2112**E-mail:** sales@chemimpex.com**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218**Web site:** www.chemimpex.com**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Lot Number	002126-2019-201
Product	Magnesium chloride hexahydrate

Magnesium chloride•6H₂O

CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O
Molecular Weight	203.3

Appearance	White crystals
Solubility	167 g in 100 mL water
Melting Point	~ 115 °C
Heavy Metals	4.393 ppm
Anion	Nitrate (NO ₃) : < 0.001% Phosphate (PO ₄) : < 5 ppm Sulfate (SO ₄) : < 0.002%
Cation	Ammonium (NH ₄) : < 0.002% Barium (Ba) : 0.005% Calcium (Ca) : 0.01% Iron (Fe) : 4.5 ppm Manganese (Mn) : 0.624 ppm Potassium (K) : 0.004% Sodium (Na) : 0.000003% Strontium (Sr) : 0.005%
Insoluble material	0.0021%
Assay by titration	100.83%
Grade	ACS reagent
Storage	Store at RT

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002126-2019-201

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager



W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis



Material BDH9284-2.5KG
Material Description BDH SODIUM CARB ANHYD ACS 2.5KG
Grade U S P REAGENT (ACS GRADE)

Batch 24E3156178
Reassay Date 09/30/2027
CAS Number 497-19-8
Molecular Formula Na₂CO₃
Molecular Mass 105.99

Date of Manufacture 09/01/2023
Storage Room Temperature
Material is hygroscopic. Protect from Moisture.
Additional Product Description:

Characteristics	Specifications	Measured Values
Appearance	Fine white granular powder	Fine white granular powder
Calcium	<= 0.03 %	0.003 %
Chloride	<= 0.001 %	0.0003 %
Heavy Metals (as Pb)	<= 0.0005 %	0.0001 %
Insolubles	<= 0.01 %	0.001 %
Iron	<= 0.0005 %	0.0001 %
Loss on Heating	<= 1.0 %	0.03 %
Magnesium	<= 0.005 %	0.001 %
Phosphate	<= 0.001 %	0.001 %
Potassium	<= 0.005 %	0.003 %
Purity	>= 99.5 %	100.0 %
Silica	<= 0.005 %	0.001 %
Sulfur Compounds	<= 0.003 %	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.



Material	BDH9266-500G
Material Description	BDH POTASS PHOSPHAT DBSC 500GM
Grade	ACS GRADE
Batch	24H0856239
Reassay Date	04/19/2028
CAS Number	7758-11-4
Molecular Formula	K ₂ HPO ₄
Molecular Mass	174.18
Date of Manufacture	04/19/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %
CUSTOMER PART # BDH9266-500G		

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.



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.



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: January 16, 2025

Lot Number: **45010168**

Expiration Date: July 17, 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
2025011610:36:11bsturges-0-0

ISO9001:2015 Registration #0306-01

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2501J28**Product Number:** 7495.5**Manufacture Date:** JAN 17, 2025**Expiration Date:** JUL 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
7495.5-8	250 mL amber poly	6 months

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

Jose Pena (01/17/2025)
Operations Manager

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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.

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

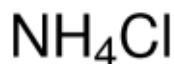
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	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

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Material
Material Description
Grade

BDH9312-2.5KG
COPPER SULFATE CRYST 2500GM
U S P REAGENT (ACS GRADE)

Batch
Reassay Date
CAS Number
Molecular Formula
Molecular Mass

24H0956271
05/31/2027
7758-99-8
CuSO4.5H2O
249.68

Date of Manufacture
Storage

05/01/2024
Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Blue crystals	Blue crystals
Calcium	<= 0.005 %	0.003 %
Chloride	<= 0.001 %	0.0001 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.003 %	0.001 %
Nickel	<= 0.005 %	0.003 %
Nitrogen Compounds (as N)	<= 0.002 %	0.001 %
Potassium	<= 0.01 %	0.0004 %
Purity	98.0 - 102.0 %	99.7 %
Sodium	<= 0.02 %	0.003 %

Extra Description: Meets Reagent Specifications for testing USP/NF monographs

CUSTOMER PART# BDH9312-2.5KG

Internal ID #: 793

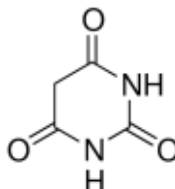
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA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

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.



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

avantor™



W3204
084K: 09/22/2025
38

Material No.: 9262-03
Batch No.: 25C0362005
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	5
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	$\leq 1.0 \text{ ppm}$	0.1 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

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

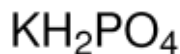
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCX1379
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 27 JAN 2025
Recommended Retest Date: JAN 2029



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 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

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



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

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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



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/7/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 07/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136368

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
Q2487-01	G4 (1.5)	1	1.15	10.21	11.36	10.14	88.1	
Q2487-02	G4 (10)	2	1.19	10.38	11.57	8.76	72.9	
Q2487-03	G3 (9)	3	1.15	10.66	11.81	7.38	58.4	
Q2487-04	G3 (3)	4	1.15	10.80	11.95	10.8	89.4	
Q2487-05	G2 (2.5)	5	1.17	10.00	11.17	10.48	93.1	
Q2487-06	G2 (9)	6	1.16	10.26	11.42	8.00	66.7	
Q2487-07	G1 (4.5)	7	1.19	10.11	11.3	7.8	65.4	
Q2487-08	G1 (10)	8	1.16	9.96	11.12	6.65	55.1	
Q2487-09	G4 (0-6)	9	1.18	10.26	11.44	10.12	87.1	
Q2487-10	G4 (6-12)	10	1.16	10.14	11.3	8.52	72.6	
Q2487-11	G3 (0-6)	11	1.18	10.42	11.6	10.68	91.2	
Q2487-12	G3 (6-12)	12	1.18	10.41	11.59	8.49	70.2	
Q2487-13	G2 (0-6)	13	1.17	9.95	11.12	10.11	89.8	
Q2487-14	G2 (6-12)	14	1.16	10.68	11.84	8.39	67.7	
Q2487-15	G1 (0-6)	15	1.17	10.55	11.72	9.68	80.7	
Q2487-16	G1 (6-12)	16	1.13	10.24	11.37	10.68	93.3	
Q2501-05	SVOC-GPC-BLANK	17	1.00	1.00	2.00	2.00	100.0	
Q2501-06	PEST-GPC-BLANK	18	1.00	1.00	2.00	2.00	100.0	
Q2501-07	PEST-GPC-BLANK-SPIKE	19	1.00	1.00	2.00	2.00	100.0	
Q2501-08	PCB-GPC-BLANK	20	1.00	1.00	2.00	2.00	100.0	
Q2501-09	PCB-GPC-BLANK-SPIKE	21	1.00	1.00	2.00	2.00	100.0	
Q2501-10	SVOC-GPC-BLANK	22	1.00	1.00	2.00	2.00	100.0	
Q2501-11	PEST-GPC-BLANK	23	1.00	1.00	2.00	2.00	100.0	
Q2501-12	PEST-GPC-BLANK-SPIKE	24	1.00	1.00	2.00	2.00	100.0	
Q2501-13	PCB-GPC2-BLANK	25	1.00	1.00	2.00	2.00	100.0	
Q2501-14	PCB-GPC2-BLANK-SPIKE	26	1.00	1.00	2.00	2.00	100.0	
Q2503-03	GCAP2	27	1.18	10.65	11.83	8.76	71.2	
Q2503-04	GCAP3	28	1.18	10.64	11.82	8.16	65.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/7/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 07/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136368

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
Q2503-05	GCAP2A	29	1.18	10.30	11.48	9.11	77.0	
Q2504-01	WASTE	30	1.14	10.73	11.87	10.16	84.1	
Q2504-02	VOC	31	1.18	10.81	11.99	10.45	85.8	
Q2504-03	1	32	1.14	10.84	11.98	10.36	85.1	
Q2504-04	2	33	1.19	10.41	11.6	9.91	83.8	
Q2504-05	3	34	1.13	10.75	11.88	10.22	84.6	
Q2504-06	4	35	1.14	10.52	11.66	10.03	84.5	
Q2504-07	5	36	1.12	10.87	11.99	10.16	83.2	
Q2505-01	#62825	37	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2505-02	#62525	38	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2505-03	#2008	39	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2507-01	SU-04-7.3-2025	40	1.17	10.26	11.43	10.1	87.0	
Q2507-02	SU-04-7.3-2025-EPH	41	1.18	10.30	11.48	9.99	85.5	
Q2507-03	SU-04-7.3-2025-VOC	42	1.13	10.45	11.58	9.95	84.4	
Q2508-01	AUD-25-0105	43	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2508-02	AUD-25-0106	44	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2508-03	AUD-25-0107	45	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2509-02	AUD-25-0112	46	1.00	1.00	2.00	2.00	100.0	oilly-debris
Q2510-01	#63025-A	47	1.15	11.63	12.78	10.79	82.9	
Q2510-02	#63025-A-VOC	48	1.18	10.19	11.37	9.86	85.2	
Q2513-01	HR-2-070325	49	1.18	9.89	11.07	10.51	94.3	
Q2513-02	HR-2-070325-E2	50	1.18	10.25	11.43	10.68	92.7	
Q2513-03	HR-3-070325	51	1.18	10.27	11.45	10.88	94.4	
Q2513-04	HR-3-070325-E2	52	1.14	10.67	11.81	11.23	94.6	
Q2514-01	TP-92	53	1.14	10.78	11.92	10.56	87.4	
Q2514-02	TP-93	54	1.19	10.71	11.9	10.58	87.7	
Q2514-03	TP-94	55	1.13	10.86	11.99	10.7	88.1	
Q2514-04	TP-96	56	1.14	11.10	12.24	10.66	85.8	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/7/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
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Weight Check 1.0g: 1.00
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OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 07/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136368

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
Q2514-05	TP-97	57	1.16	10.02	11.18	9.68	85.0	
Q2514-06	TP-103	58	1.18	10.22	11.4	10.02	86.5	
Q2514-07	TP-36	59	1.15	10.78	11.93	10.88	90.3	
Q2514-08	TP-78	60	1.13	9.99	11.12	9.75	86.3	
Q2514-09	TP-81	61	1.16	10.50	11.66	10.22	86.3	
Q2514-10	TP-90	62	1.18	10.43	11.61	10.73	91.6	
Q2515-01	wc-1	63	1.15	10.31	11.46	10.17	87.5	

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

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-070325

WorkList ID : 190533

Department : Wet-Chemistry

Date : 07-03-2025 08:34:29

196368

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-01	G4(1.5)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-02	G4(10)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-03	G3(9)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-04	G3(3)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-05	G2(2.5)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-06	G2(9)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-07	G1(4.5)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-08	G1(10)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-09	G4(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-10	G4(6-12)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-11	G3(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-12	G3(6-12)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-13	G2(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-14	G2(6-12)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-15	G1(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-16	G1(6-12)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2501-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO

Date/Time 07/03/25 15:15

Raw Sample Received by: JDC

Raw Sample Relinquished by: JDC

Date/Time 07/03/25

Raw Sample Received by: JDC

Raw Sample Relinquished by: JDC

WORKLIST(Hardcopy Internal Chain)

136318

WorkList Name : %1-070325

WorkList ID : 190533

Department : Wet-Chemistry

Date : 07-03-2025 08:34:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2501-10	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-11	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-12	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2503-03	GCAP2	Solid	Percent Solids	Cool 4 deg C	GENV01	O11	06/27/2025	Chemtech -SO
Q2503-04	GCAP3	Solid	Percent Solids	Cool 4 deg C	GENV01	O11	07/02/2025	Chemtech -SO
Q2503-05	GCAP2A	Solid	Percent Solids	Cool 4 deg C	GENV01	O11	07/02/2025	Chemtech -SO
Q2504-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2505-01	#62825	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/03/2025	Chemtech -SO
Q2505-02	#62525	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/03/2025	Chemtech -SO
Q2505-03	#2008	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/03/2025	Chemtech -SO
Q2507-01	SU-04-7.3-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	O12	07/04/2025	Chemtech -SO
Q2507-02	SU-04-7.3-2025-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	O12	07/04/2025	Chemtech -SO
Q2507-03	SU-04-7.3-2025-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	O12	07/04/2025	Chemtech -SO

Date/Time 07/03/25 15:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 07/03/25 17:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

136368

WorkList Name : %1-070325

WorkList ID : 190533

Department : Wet-Chemistry

Date : 07-03-2025 08:34:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2508-01	AUD-25-0105	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/03/2025	Chemtech -SO
Q2508-02	AUD-25-0106	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/03/2025	Chemtech -SO
Q2508-03	AUD-25-0107	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/03/2025	Chemtech -SO
Q2509-02	AUD-25-0112	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/03/2025	Chemtech -SO
Q2510-01	#63025-A	Solid	Percent Solids	Cool 4 deg C	PSEG05	O22	07/03/2025	Chemtech -SO
Q2510-02	#63025-A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG05	O22	07/03/2025	Chemtech -SO
Q2513-01	HR-2-070325	Solid	Percent Solids	Cool 4 deg C	PSEG05	O21	07/03/2025	Chemtech -SO
Q2513-02	HR-2-070325-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	O21	07/03/2025	Chemtech -SO
Q2513-03	HR-3-070325	Solid	Percent Solids	Cool 4 deg C	PSEG05	O21	07/03/2025	Chemtech -SO
Q2513-04	HR-3-070325-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	O21	07/03/2025	Chemtech -SO
Q2514-01	TP-92	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-02	TP-93	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-03	TP-94	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-04	TP-96	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-05	TP-97	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-06	TP-103	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-07	TP-36	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-08	TP-78	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/03/2025	Chemtech -SO
Q2514-09	TP-81	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/03/2025	Chemtech -SO
Q2514-10	TP-90	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/03/2025	Chemtech -SO
Q2515-01	wc-1	Solid	Percent Solids	Cool 4 deg C	ENVO01	O23	07/03/2025	Chemtech -SO

Date/Time 07/03/25 1515
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time

Raw Sample Received by:



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Walsh Construction
ADDRESS: 150 Clare Rd, 11th Floor
CITY Little Falls STATE: NJ ZIP: 07424
ATTENTION: Benie Dion Gokan
PHONE: 646-285-7234 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Construction of Shaft 17B488
PROJECT NO.: 220084 LOCATION: Queens, NY
PROJECT MANAGER: Jesse Sylvestri
e-mail: j.sylvestri@walshgroup.com
PHONE: 201-681-9740 FAX:

CLIENT BILLING INFORMATION

BILL TO: Walsh Construction PO#:
ADDRESS: 150 Clare Rd, 11th Floor
CITY Little Falls STATE: NJ ZIP: 07424
ATTENTION: Jesse Sylvestri PHONE: 201-681-9740

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

☒ 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 _____

ANALYSIS

1. TCL VOCs + TSS
2. TCL SVOCs + TSS
3. TCL VOCs + TSS
4. TCL VOCs + TSS
5. Rest Herb PCB
6. Rest Herb PCB
7. Rest Herb PCB
8. Rest Herb PCB
9. Rest Herb PCB
See add'l analyses in comments

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	← Specify Preservatives										
			COMP	GRAB	DATE	TIME		F+E	E	E	E	E	E	E	E	A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER (methanol)	
								1	2	3	4	5	6	7	8	9		
1.	G4(1.5)	Soil		X	7/1/25	1025	6	X										3x vials (temperature set)
2.	G4(10)	↓		X		1045		X										+ 2x enclosures +
3.	G3(9)			X		1150		X										1x plastic
4.	G3(3)			X		1200		X										
5.	G2(2.5)			X		1325		X										↓
6.	G2(9)			X		1330		X										
7.	G1(4.5)			X		1430		X										
8.	G1(10)			X		1440		X										3x vials (temperature set) 1x 802 + 1x plastic + 2x enclosures
9.	G4(0-6)	↓	X			1100	7		X	X	X	X	X	X	X	X	7x 802 jars	
10.	G4(6-12)		X			1110			X	X	X	X	X	X	X	X		↓

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP _____ °C
1. <u>[Signature]</u>	7/1/25 1600	1. <u>Benie Dion Gokan</u>	Comments: Full analyte list in B. Gokan email on 6/26/25 to J. Hedust
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	See Bottle order # B2506068 & B2506069
2. <u>Benie Dion Gokan</u>	7-1-25 1600	2. <u>[Signature]</u>	Add'l analyses - Paint Filler, Organic Content by LOI, TS, TVS,
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Ammonia & Nitrogen, COD, O.I. & Grease
3. <u>[Signature]</u>	7-1-25	3. <u>[Signature]</u>	

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Walsh Construction
ADDRESS: 150 Clure Rd, 11th Floor
CITY: Little Falls STATE: NJ ZIP: 07424
ATTENTION: Benue Dion Gordon
PHONE: 646-285-7234 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Construction of Shaft 17B-H873
PROJECT NO.: 220084 LOCATION: Queens, NY
PROJECT MANAGER: Jesse Sylvestri
e-mail: jssylvestri@walshgroup.com
PHONE: 201-681-9740 FAX:

CLIENT BILLING INFORMATION

BILL TO: Walsh Construction PO#:
ADDRESS: 150 Clure Rd, 11th Floor
CITY: Little Falls STATE: NJ ZIP: 07424
ATTENTION: Jesse Sylvestri PHONE: 201-681-9740

ANALYSIS

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

☒ 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. TC-VOCs + TICs
2. TC-Sulfates + TICs
3. TC-Nitrate + Nitrite
4. TC-Cyanide
5. TC-Hexachlorine
6. TC-Herbicides
7. TC-Pesticides
8. TC-Pesticides
9. TC-Pesticides
10. TC-Pesticides
*See add'l analyses in comments

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		F+E	E	E	E	E	E	E	E	E	Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER (method)	
1.	G3 (0-6)	Soil	X		7/1/25	1235	7		X	X	X	X	X	X	X	X	7x 8 oz jars	
2.	G3 (6-12)					1245												
3.	G2 (0-6)					1350												
4.	G2 (6-12)					1400												
5.	G1 (0-6)					1410												
6.	G1 (6-12)					1420												
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP
1. <u>[Signature]</u>	<u>7/1/25 1600</u>	1. <u>Benue Dion Gordon</u>	Comments: <u>Full analyte list in B. Gordon email on 6/26/25 to J. Heavast</u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	See Bottle Order #B2506068 P B2506069
2. <u>Benue Dion Gordon</u>	<u>7-1-25</u>	2. <u>[Signature]</u>	Add'l analyses - Point Filter, Organic Content by LOI, TS, TUS, Ammonia + Nitrogen, COD, Oil & Grease
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	CLIENT: ☐ Hand Delivered ☐ Other
3. <u>[Signature]</u>	<u>7/1/25</u>	3. <u>[Signature]</u>	Shipment Complete ☐ YES ☐ NO

Laboratory Certification

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2487 **WALS01**
Client Name : Walsh Construction Comp
Client Contact : Jesse A. Sylvestri
Invoice Name : Walsh Construction Comp
Invoice Contact : Jesse A. Sylvestri

Order Date : 7/2/2025 10:05:00 AM
Project Name : Construction of Shafts 17B-
Receive DateTime : 7/1/2025 4:00:00 PM
Purchase Order : 18:18

Project Mgr :
Report Type : Level 2
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2487-01	G4(1.5)	Solid	07/01/2025	10:25	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2487-02	G4(10)	Solid	07/01/2025	10:25	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2487-03	G3(9)	Solid	07/01/2025	10:25	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2487-04	G3(3)	Solid	07/01/2025	10:25	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2487-05	G2(2.5)	Solid	07/01/2025	10:25	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2487-06	G2(9)	Solid	07/01/2025	10:25	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2487-07	G1(4.5)	Solid	07/01/2025	10:25	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2487-08	G1(10)	Solid	07/01/2025	10:25	VOC-TCLVOA-10		8260D	10 Bus. Days	



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2487 WALSO1
Client Name : Walsh Construction Company
Client Contact : Jesse A. Sylvestri
Invoice Name : Walsh Construction Company
Invoice Contact : Jesse A. Sylvestri

Order Date : 7/2/2025 10:05:00 AM
Project Name : Construction of Shafts 17B-
Receive Date/Time : 7/1/2025 4:00:00 PM
Purchase Order : 18-1821

Project Mgr :
Report Type : Level 2
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : CD

Date / Time : 7/2/25 15:45

Received By : Sam

Date / Time : 07/02/25 15:45

Storage Area : VOA Refridgerator Room