



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

Cover Page

Order ID : O5252

Project ID : 245 Greenwood Ave

Client : RMJ Environomics, Inc.

Lab Sample Number

O5252-01
O5252-03

Client Sample Number

WASTE
WASTE-VOC

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: 11/21/2023

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 #: 05252

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 Castody

✓

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

✓1st Level QA Review Signature: KETAN PATEL

Date: 11/21/2023

2nd Level QA Review Signature: _____

Date: _____



284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: O5252	OrderDate: 11/3/2023 2:14:16 PM
Client: RMJ Environomics, Inc.	Project: 245 Greenwood Ave
Contact: Jonathan Pereira	Location: I31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
05252-01	WASTE	SOIL			11/03/23 11:20			11/03/23
			Cyanide	9012B		11/09/23	11/09/23 14:47	
			Paint Filter	9095B			11/08/23 15:30	

SAMPLE DATA



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Report of Analysis

Client:	RMJ Environomics, Inc.	Date Collected:	11/03/23 11:20
Project:	245 Greenwood Ave	Date Received:	11/03/23
Client Sample ID:	WASTE	SDG No.:	O5252
Lab Sample ID:	O5252-01	Matrix:	SOIL
		% Solid:	90.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.060	U	1	0.060	0.27	mg/Kg	11/09/23 10:25	11/09/23 14:47	9012B
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		11/08/23 15:30	9095B

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

QC RESULT SUMMARY



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

Initial and Continuing Calibration Verification

Client: RMJ Environomics, Inc.

SDG No.: O5252

Project: 245 Greenwood Ave

RunNo.: LB128256

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Cyanide		mg/L	0.096	0.099	97	90-110	11/09/2023
Sample ID:	CCV1						
Cyanide		mg/L	0.25	0.25	100	90-110	11/09/2023
Sample ID:	CCV2						
Cyanide		mg/L	0.25	0.25	100	90-110	11/09/2023
Sample ID:	CCV3						
Cyanide		mg/L	0.25	0.25	100	90-110	11/09/2023
Sample ID:	CCV4						
Cyanide		mg/L	0.26	0.25	104	90-110	11/09/2023



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Initial and Continuing Calibration Blank Summary

Client: RMJ Environomics, Inc.

SDG No.: O5252

Project: 245 Greenwood Ave

RunNo.: LB128256

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.0010	0.005	11/09/2023
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.0010	0.005	11/09/2023
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.0010	0.005	11/09/2023
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.0010	0.005	11/09/2023
Sample ID: CCB4 Cyanide	mg/L	< 0.0025	0.0025	U	0.0010	0.005	11/09/2023



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Preparation Blank Summary

Client: RMJ Environomics, Inc.

SDG No.: O5252

Project: 245 Greenwood Ave

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	PB157028BL mg/Kg	< 0.1250	0.1250	U	0.057	0.25	11/09/2023



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Matrix Spike Summary

Client:	RMJ Environomics, Inc.	SDG No.:	O5252
Project:	245 Greenwood Ave	Sample ID:	O5253-04
Client ID:	L-3(195FT)(0-5)MS	Percent Solids for Spike Sample:	91.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.30		0.061	U	2.1	1	110		11/09/2023



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Matrix Spike Summary

Client:	RMJ Environomics, Inc.	SDG No.:	O5252
Project:	245 Greenwood Ave	Sample ID:	O5253-04
Client ID:	L-3(195FT)(0-5)MSD	Percent Solids for Spike Sample:	91.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.40		0.061	U	2.1	1	114		11/09/2023



Duplicate Sample Summary

Client:RMJ Environomics, Inc.

Project:245 Greenwood Ave

Client ID:L-3(195FT)(0-5)DUP

SDG No.:O5252

Sample ID:O5253-04

Percent Solids for Spike Sample:91.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.061	U	0.061	U	1	0		11/09/2023



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Duplicate Sample Summary

Client:	RMJ Environomics, Inc.	SDG No.:	O5252
Project:	245 Greenwood Ave	Sample ID:	O5253-04
Client ID:	L-3(195FT)(0-5)MSD	Percent Solids for Spike Sample:	91.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.30		2.40		1	4		11/09/2023



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Duplicate Sample Summary

Client:	RMJ Environomics, Inc.	SDG No.:	O5252
Project:	245 Greenwood Ave	Sample ID:	O5295-04
Client ID:	TP-2DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		11/08/2023



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Laboratory Control Sample Summary

Client: RMJ Environomics, Inc.
Project: 245 Greenwood Ave

SDG No.: O5252
Run No.: LB128256

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB157028BS								
Cyanide		mg/Kg	5	4.90		98	1	85-115	11/09/2023

RAW DATA

Analytical Summary Report

Analysis Method: 9095B

Reviewed By: Rubina

Parameter: Paint Filter

Supervisor Review By: Iwona

Run Number: LB128232

BalanceID: WC SC-4

Seq	LabID	ClientID	Dilution	Weight(g)	Inst.Conc (ml/100g)	Anal Date	Anal Time
1	O5252-01	WASTE	1	100.04	0.00	11/08/2023	15:30
2	O5270-01	OR-3-110623	1	100.07	0.00	11/08/2023	15:38
3	O5279-01	TP-1	1	100.04	0.00	11/08/2023	15:45
4	O5279-04	TP-1	1	100.02	0.00	11/08/2023	15:52
5	O5279-05	MH-1	1	100.06	0.00	11/08/2023	16:00
6	O5279-08	MH-1	1	100.05	0.00	11/08/2023	16:07
7	O5295-01	TP-2	1	100.07	0.00	11/08/2023	16:15
8	O5295-04	TP-2	1	100.02	0.00	11/08/2023	16:22
9	O5295-04DUP	TP-2DUP	1	100.02	0.00	11/08/2023	16:30

WORKLIST(Hardcopy Internal Chain)

6128232

WorkList Name : pf-11-08

WorkList ID : 175374

Department : Wet-Chemistry

Date : 11-08-2023 08:25:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5252-01	WASTE	Solid	Paint Filter	Cool 4 deg C	RMJE02	I31	11/03/2023	9095B
O5270-01	OR-3-110623	Solid	Paint Filter	Cool 4 deg C	PSEG05	I31	11/06/2023	9095B
O5279-01	TP-1	Solid	Paint Filter	Cool 4 deg C	PSEG03	L41	11/06/2023	9095B
O5279-04	TP-1	Solid	Paint Filter	Cool 4 deg C	PSEG03	L41	11/06/2023	9095B
O5279-05	MH-1	Solid	Paint Filter	Cool 4 deg C	PSEG03	L41	11/06/2023	9095B
O5279-08	MH-1	Solid	Paint Filter	Cool 4 deg C	PSEG03	L41	11/06/2023	9095B
O5295-01	TP-2	Solid	Paint Filter	Cool 4 deg C	PSEG03	L41	11/07/2023	9095B
O5295-04	TP-2	Solid	Paint Filter	Cool 4 deg C	PSEG03	L41	11/07/2023	9095B

Date/Time 11/08/2023 15:00
 Raw Sample Received by: Rpa
 Raw Sample Relinquished by: JH(CDC)

Date/Time 11/08/2023 16:05
 Raw Sample Received by: JH(CDC)
 Raw Sample Relinquished by: Rpa

L13128256

Test results

Aquakem 7.2AQ1

Page:

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

Reviewed by : 12 Instrument ID : Konelab

11/9/2023 15:44

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	96.243	0.0	0.079	
ICB1	-0.148	0.0	0.001	
CCV1	247.253	0.0	0.201	
CCB1	-1.242	0.0	0.000	
PB157028BL	-0.736	0.0	0.001	
PB157028BS	97.651	0.0	0.080	
HIGHPB157028	493.087	0.0	0.398	99% (90-110)
O5237-01	-0.344	0.0	0.001	
O5252-01	-0.263	0.0	0.001	12
O5253-01	-0.402	0.0	0.001	11/9/23
O5253-02	-2.023	0.0	-0.000	
O5253-03	-0.581	0.0	0.001	
CCV2	247.729	0.0	0.201	
CCB2	-0.209	0.0	0.001	
O5293-01	0.087	0.0	0.002	
O5293-02	-0.086	0.0	0.001	
O5293-03	-0.899	0.0	0.001	
O5293-05	-0.244	0.0	0.001	
O5293-06	-2.725	0.0	-0.001	
O5293-07	-0.188	0.0	0.001	
CCV3	250.038	0.0	0.203	
CCB3	-0.149	0.0	0.001	
O5293-08	-0.566	0.0	0.001	
O5312-01	0.621	0.0	0.002	
O5312-02	0.097	0.0	0.002	
O5312-03	0.279	0.0	0.002	
LOWPB157028	9.536	0.0	0.009	95% (90-110)
O5253-04	0.540	0.0	0.002	
O5253-04DUP	0.380	0.0	0.002	
O5253-04MS	44.571	0.0	0.037	12
O5253-04MSD	45.478	0.0	0.038	11/9/23
O5293-04	-0.989	0.0	0.001	
CCV4	259.744	0.0	0.211	
CCB4	-0.068	0.0	0.001	

N 34
Mean 52.396
SD 113.5173
CV% 216.65

Aquakem v. 7.2AQ1

Results from time period:

Thu Nov 09 14:40:12 2023

Thu Nov 09 15:36:07 2023

Sample Id	Sam/Ctr/c/	Test short	Test type	Result	Result unit	Result date and time	Stat
0.OPPBCN	A	Total CN	P	-0.5093	µg/l	11/9/2023 10:01:25	
5.OPPBCN	A	Total CN	P	4.1538	µg/l	11/9/2023 10:01:26	
10PPBCN	A	Total CN	P	9.3561	µg/l	11/9/2023 10:01:27	
50PPBCN	A	Total CN	P	49.3031	µg/l	11/9/2023 10:01:28	
100PPBCN	A	Total CN	P	100.9173	µg/l	11/9/2023 10:01:29	
250PPBCN	A	Total CN	P	253.7429	µg/l	11/9/2023 10:01:30	
500PPBCN	A	Total CN	P	498.0361	µg/l	11/9/2023 10:01:31	
ICV1	S	Total CN	P	96.2428	µg/l	11/9/2023 14:40:12	
ICB1	S	Total CN	P	-0.1477	µg/l	11/9/2023 14:40:14	
CCV1	S	Total CN	P	247.2527	µg/l	11/9/2023 14:40:17	
CCB1	S	Total CN	P	-1.2421	µg/l	11/9/2023 14:40:18	
PB157028BL	S	Total CN	P	-0.7357	µg/l	11/9/2023 14:40:21	
PB157028BS	S	Total CN	P	97.6514	µg/l	11/9/2023 14:40:22	
HIGHPB157028	S	Total CN	P	493.0874	µg/l	11/9/2023 14:47:53	
O5237-01	S	Total CN	P	-0.3437	µg/l	11/9/2023 14:47:54	
O5252-01	S	Total CN	P	-0.2633	µg/l	11/9/2023 14:47:55	
O5253-01	S	Total CN	P	-0.4015	µg/l	11/9/2023 14:47:56	
O5253-02	S	Total CN	P	-2.023	µg/l	11/9/2023 14:47:57	
O5253-03	S	Total CN	P	-0.5814	µg/l	11/9/2023 14:55:19	
CCV2	S	Total CN	P	247.7294	µg/l	11/9/2023 14:55:22	
CCB2	S	Total CN	P	-0.2095	µg/l	11/9/2023 14:55:23	
O5293-01	S	Total CN	P	0.0875	µg/l	11/9/2023 14:55:29	
O5293-02	S	Total CN	P	-0.0855	µg/l	11/9/2023 15:02:54	
O5293-03	S	Total CN	P	-0.8992	µg/l	11/9/2023 15:02:55	
O5293-05	S	Total CN	P	-0.2443	µg/l	11/9/2023 15:02:57	
O5293-06	S	Total CN	P	-2.7251	µg/l	11/9/2023 15:02:58	
O5293-07	S	Total CN	P	-0.1879	µg/l	11/9/2023 15:02:59	
CCV3	S	Total CN	P	250.0381	µg/l	11/9/2023 15:03:00	
CCB3	S	Total CN	P	-0.1486	µg/l	11/9/2023 15:03:01	
O5293-08	S	Total CN	P	-0.5663	µg/l	11/9/2023 15:03:02	
O5312-01	S	Total CN	P	0.621	µg/l	11/9/2023 15:03:03	
O5312-02	S	Total CN	P	0.0967	µg/l	11/9/2023 15:03:04	
O5312-03	S	Total CN	P	0.2792	µg/l	11/9/2023 15:09:05	
LOWPB157028	S	Total CN	P	9.5361	µg/l	11/9/2023 15:30:47	
O5253-04	S	Total CN	P	0.5402	µg/l	11/9/2023 15:30:51	
O5253-04DUP	S	Total CN	P	0.3801	µg/l	11/9/2023 15:30:52	
O5253-04MS	S	Total CN	P	44.5713	µg/l	11/9/2023 15:30:54	
O5253-04MSD	S	Total CN	P	45.4782	µg/l	11/9/2023 15:30:56	
O5293-04	S	Total CN	P	-0.9893	µg/l	11/9/2023 15:36:02	
CCV4	S	Total CN	P	259.7437	µg/l	11/9/2023 15:36:05	
CCB4	S	Total CN	P	-0.0679	µg/l	11/9/2023 15:36:06	

Calibration results

Aquakem 7.2AQ1

Page:

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

Reviewed by : 12 Instrument ID : Konelab

11/9/2023 10:01

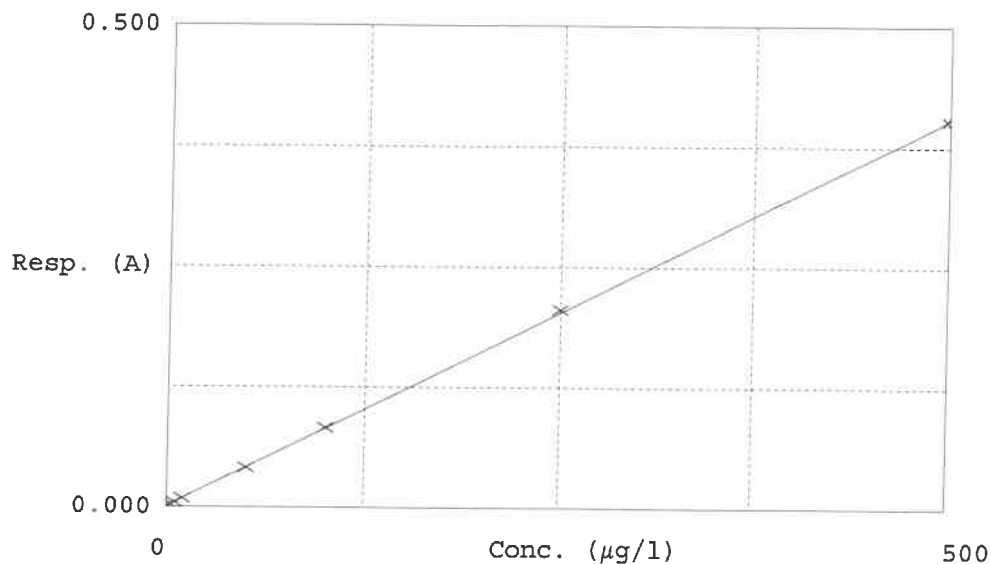
Test Total CN

Accepted 11/9/2023 10:01

Factor 1242
Bias 0.001

Coeff. of det. 0.999900

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	-0.5093	0.0000	-
2	5.0PPBCN	0.005	4.1538	5.0000	-16.9
3	10PPBCN	0.009	9.3561	10.0000	-6.9
4	50PPBCN	0.041	49.3031	50.0000	-1.4
5	100PPBCN	0.083	100.9173	100.0000	0.9
6	250PPBCN	0.206	253.7429	250.0000	1.5
7	500PPBCN	0.402	498.0361	500.0000	-0.4

12
11/9/23

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : IZ

Start Digest Date: 11/09/2023 Time : 10:25 Temp : 123 °C

End Digest Date: 11/09/2023 Time : 11:55 Temp : 127 °C

Final Batch 11/09/2023 12:20 126 °C
 11/09/2023 13:50 127 °C

Digestion tube ID : M5216

Block Thermometer ID : WC CYANIDE

Filter paper ID : N/A

Prep Technician Signature: 12

pH Meter ID : N/A

Supervisor Signature: 20

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP105082
MS/MSD SPIKE SOL.	0.4ML	WP103185
PBS003	50.0ML	W2606
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP102492
50% v/v H2SO4	5.0ML	WP102493
51% w/v MgCL2	2.0ML	WP102494
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	0.5ML	W2162
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	5.0ML	WP103185
LOWSTD	LOWSTD	0.1ML	WP103185

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/09/23 14:05	12/09	12/09
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
O5237-01	11TH-ST-1	1.06	50	N/A	N/A	N/A	N/A	N/A	N/A
O5252-01	WASTE	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
O5253-01	L-1(65FT)(5-10)	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
O5253-02	L-6(0-5)	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
O5253-03	L-3(120FT)(0-5)	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
O5253-04	L-3(195FT)(0-5)	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
O5253-04DUP	L-3(195FT)(0-5)DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
O5253-04MS	L-3(195FT)(0-5)MS	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
O5253-04MSD	L-3(195FT)(0-5)MSD	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
O5293-01	SB-1	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
O5293-02	SB-2	1.06	50	N/A	N/A	N/A	N/A	N/A	N/A
O5293-03	SB-3	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
O5293-04	SB-4	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
O5293-05	SB-5	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
O5293-06	SB-6	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
O5293-07	SB-7	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
O5293-08	SB-8	1.06	50	N/A	N/A	N/A	N/A	N/A	N/A
O5312-01	P-4(170FT)(5-10)	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
O5312-02	DUP-03	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
O5312-03	P-2(200FT)(5-10)	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
PB157028BL	PB157028BL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB157028BS	LCS028	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : cn o5293

WorkList ID : 175396

Department : Distillation

Date : 11-08-2023 12:38:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5237-01	11TH-ST-1	Solid	Cyanide	Cool 4 deg C	DIST01	I41	11/02/2023	9012B
O5252-01	WASTE	Solid	Cyanide	Cool 4 deg C	RMJE02	I31	11/03/2023	9012B
O5253-01	L-1(65FT)(5-10)	Solid	Cyanide	Cool 4 deg C	GEIC06	L21	11/02/2023	9012B
O5253-02	L-6(0-5)	Solid	Cyanide	Cool 4 deg C	GEIC06	L21	11/03/2023	9012B
O5253-03	L-3(120FT)(0-5)	Solid	Cyanide	Cool 4 deg C	GEIC06	L21	11/03/2023	9012B
O5253-04	L-3(195FT)(0-5)	Solid	Cyanide	Cool 4 deg C	GEIC06	L21	11/03/2023	9012B
O5293-01	SB-1	Solid	Cyanide	Cool 4 deg C	RMJE02	L31	11/07/2023	9012B
O5293-02	SB-2	Solid	Cyanide	Cool 4 deg C	RMJE02	L31	11/07/2023	9012B
O5293-03	SB-3	Solid	Cyanide	Cool 4 deg C	RMJE02	L31	11/07/2023	9012B
O5293-04	SB-4	Solid	Cyanide	Cool 4 deg C	RMJE02	L31	11/07/2023	9012B
O5293-05	SB-5	Solid	Cyanide	Cool 4 deg C	RMJE02	L31	11/07/2023	9012B
O5293-06	SB-6	Solid	Cyanide	Cool 4 deg C	RMJE02	L31	11/07/2023	9012B
O5293-07	SB-7	Solid	Cyanide	Cool 4 deg C	RMJE02	L31	11/07/2023	9012B
O5293-08	SB-8	Solid	Cyanide	Cool 4 deg C	RMJE02	L31	11/07/2023	9012B

Date/Time

11/08/23 09:50

Raw Sample Received by:

101930

Raw Sample Relinquished by:

101930

Date/Time

11/08/23 10:45

Raw Sample Received by:

CP

Raw Sample Relinquished by:

JP (WC)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN-110923 WorkList ID : 175437 Department : Distillation Date : 11-09-2023 09:39:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5312-01	P-4(170FT)(5-10)	Solid	Cyanide	Cool 4 deg C	GEIC06	L31	11/07/2023	9012B
O5312-02	DUP-03	Solid	Cyanide	Cool 4 deg C	GEIC06	L31	11/07/2023	9012B
O5312-03	P-2(200FT)(5-10)	Solid	Cyanide	Cool 4 deg C	GEIC06	L31	11/07/2023	9012B

Date/Time 11/09/23 09:50
 Raw Sample Received by: JP [Signature]
 Raw Sample Relinquished by: JP [Signature]

Date/Time 11/09/23 10:45
 Raw Sample Received by: JP [Signature]
 Raw Sample Relinquished by: JP [Signature]



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Instrument ID: FILTER/GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB128232

Review By	Rubina	Review On	11/8/2023 4:53:04 PM
Supervise By	Iwona	Supervise On	11/9/2023 11:29:06 AM
SubDirectory	LB128232	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	O5252-01	WASTE	SAM	11/08/23 15:30		Rubina	OK
2	O5270-01	OR-3-110623	SAM	11/08/23 15:38		Rubina	OK
3	O5279-01	TP-1	SAM	11/08/23 15:45		Rubina	OK
4	O5279-04	TP-1	SAM	11/08/23 15:52		Rubina	OK
5	O5279-05	MH-1	SAM	11/08/23 16:00		Rubina	OK
6	O5279-08	MH-1	SAM	11/08/23 16:07		Rubina	OK
7	O5295-01	TP-2	SAM	11/08/23 16:15		Rubina	OK
8	O5295-04	TP-2	SAM	11/08/23 16:22		Rubina	OK
9	O5295-04DUP	TP-2DUP	DUP	11/08/23 16:30		Rubina	OK



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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB128256

Review By	Rubina	Review On	11/10/2023 9:26:03 AM
Supervise By	Iwona	Supervise On	11/10/2023 9:28:45 AM
SubDirectory	LB128256	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP105218,WP105219,WP105220,WP105221,WP105222,WP105223,WP105224		
ICV Standard	W2162		
CCV Standard	WP105219		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP105082		
Chk Standard	WP104150,WP104494,WP105226		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/09/23 10:01		Iwona	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/09/23 10:01		Iwona	OK
3	10PPBCN	10PPBCN	CAL3	11/09/23 10:01		Iwona	OK
4	50PPBCN	50PPBCN	CAL4	11/09/23 10:01		Iwona	OK
5	100PPBCN	100PPBCN	CAL5	11/09/23 10:01		Iwona	OK
6	250PPBCN	250PPBCN	CAL6	11/09/23 10:01		Iwona	OK
7	500PPBCN	500PPBCN	CAL7	11/09/23 10:01		Iwona	OK
8	ICV1	ICV1	ICV	11/09/23 14:40		Iwona	OK
9	ICB1	ICB1	ICB	11/09/23 14:40		Iwona	OK
10	CCV1	CCV1	CCV	11/09/23 14:40		Iwona	OK
11	CCB1	CCB1	CCB	11/09/23 14:40		Iwona	OK
12	PB157028BL	PB157028BL	MB	11/09/23 14:40		Iwona	OK
13	PB157028BS	PB157028BS	LCS	11/09/23 14:40		Iwona	OK
14	HIGHPB157028	HIGHPB157028	SAM	11/09/23 14:47		Iwona	OK
15	O5237-01	111TH-ST-1	SAM	11/09/23 14:47		Iwona	OK
16	O5252-01	WASTE	SAM	11/09/23 14:47		Iwona	OK
17	O5253-01	L-1(65FT)(5-10)	SAM	11/09/23 14:47		Iwona	OK
18	O5253-02	L-6(0-5)	SAM	11/09/23 14:47		Iwona	OK
19	O5253-03	L-3(120FT)(0-5)	SAM	11/09/23 14:55		Iwona	OK
20	CCV2	CCV2	CCV	11/09/23 14:55		Iwona	OK



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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB128256

Review By	Rubina	Review On	11/10/2023 9:26:03 AM
Supervise By	Iwona	Supervise On	11/10/2023 9:28:45 AM
SubDirectory	LB128256	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP105218,WP105219,WP105220,WP105221,WP105222,WP105223,WP105224
ICV Standard	W2162
CCV Standard	WP105219
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP105082
Chk Standard	WP104150,WP104494,WP105226

21	CCB2	CCB2	CCB	11/09/23 14:55		Iwona	OK
22	O5293-01	SB-1	SAM	11/09/23 14:55		Iwona	OK
23	O5293-02	SB-2	SAM	11/09/23 15:02		Iwona	OK
24	O5293-03	SB-3	SAM	11/09/23 15:02		Iwona	OK
25	O5293-05	SB-5	SAM	11/09/23 15:02		Iwona	OK
26	O5293-06	SB-6	SAM	11/09/23 15:02		Iwona	OK
27	O5293-07	SB-7	SAM	11/09/23 15:02		Iwona	OK
28	CCV3	CCV3	CCV	11/09/23 15:03		Iwona	OK
29	CCB3	CCB3	CCB	11/09/23 15:03		Iwona	OK
30	O5293-08	SB-8	SAM	11/09/23 15:03		Iwona	OK
31	O5312-01	P-4(170FT)(5-10)	SAM	11/09/23 15:03		Iwona	OK
32	O5312-02	DUP-03	SAM	11/09/23 15:03		Iwona	OK
33	O5312-03	P-2(200FT)(5-10)	SAM	11/09/23 15:09		Iwona	OK
34	LOWPB157028	LOWPB157028	SAM	11/09/23 15:30		Iwona	OK
35	O5253-04	L-3(195FT)(0-5)	SAM	11/09/23 15:30		Iwona	OK
36	O5253-04DUP	L-3(195FT)(0-5)DUP	DUP	11/09/23 15:30		Iwona	OK
37	O5253-04MS	L-3(195FT)(0-5)MS	MS	11/09/23 15:30		Iwona	OK
38	O5253-04MSD	L-3(195FT)(0-5)MSD	MSD	11/09/23 15:30		Iwona	OK
39	O5293-04	SB-4	SAM	11/09/23 15:36		Iwona	OK
40	CCV4	CCV4	CCV	11/09/23 15:36		Iwona	OK
41	CCB4	CCB4	CCB	11/09/23 15:36		Iwona	OK



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Prep Standard - Chemical Standard Summary

Order ID : O5252

Test : Cyanide,Paint Filter,Percent Solids

Prepbatch ID : PB157028,

Sequence ID/Qc Batch ID: LB128232,LB128256,

Standard ID :

WP102492,WP102493,WP102494,WP103185,WP104150,WP104494,WP105082,WP105217,WP105218,WP105219,
WP105220,WP105221,WP105222,WP105223,WP105224,WP105226,

Chemical ID :

M5038,M5661,W2162,W2606,W2668,W2845,W2882,W3001,W3019,W3021,W3039,W3061,

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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>
11	Sodium hydroxide absorbing solution 0.25 N	WP102492	05/16/2023	11/16/2023	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh 05/16/2023
<u>FROM</u>	21.00000L of W2606 + 210.00000gram of W2845 = 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>
1714	Sulfuric Acid, 50% (v/v)	WP102493	05/16/2023	11/16/2023	Iwona Zarych	None	None	Jignesh Parikh 05/16/2023
<u>FROM</u> 1000.00000ml of M5038 + 1000.00000ml of W2606 = Final Quantity: 2000.000 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>
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP102494	05/16/2023	11/16/2023	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh 05/16/2023
<u>FROM</u>	500.00000ml of W2606 + 510.00000gram of W3001 = 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>
3850	Cyanide MS-MSD spiking solution, 5PPM	WP103185	07/03/2023	11/16/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Sohil Jodhani 07/11/2023
<u>FROM</u>	1.00000ml of W3039 + 199.00000ml of WP102492 = Final Quantity: 200.000 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>
607	PYRIDINE-BARBITURIC ACID	WP104150	09/13/2023	03/07/2024	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Sohil Jodhani 09/15/2023
<u>FROM</u>	145.00000ml of W2606 + 15.00000gram of W2882 + 15.00000ml of M5661 + 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>
539	CN BUFFER	WP104494	10/02/2023	04/02/2024	Iwona Zarych	None	None	Sohil Jodhani
<u>FROM</u> 138.00000gram of W2668 + 862.00000ml of W2606 = 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>
3371	Cyanide LCS Spike Solution, 5PPM	WP105082	11/02/2023	11/16/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2023
<u>FROM</u> 1.00000ml of W3061 + 199.00000ml of WP102492 = 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>
3456	Cyanide Intermediate Working Std, 5PPM	WP105217	11/09/2023	11/10/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2023
<u>FROM</u> 0.25000ml of W3039 + 49.75000ml of WP102492 = Final Quantity: 50.000 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>
4	Calibration standard 500 ppb	WP105218	11/09/2023	11/10/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2023
<u>FROM</u> 45.00000ml of WP102492 + 5.00000ml of WP105217 = 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	WP105219	11/09/2023	11/10/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2023
<u>FROM</u> 2.50000ml of WP105217 + 47.50000ml of WP102492 = Final Quantity: 50.000 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>
6	Calibration Standard 100 ppb	WP105220	11/09/2023	11/10/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2023
<u>FROM</u>	1.00000ml of WP105217 + 49.00000ml of WP102492 = 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	WP105221	11/09/2023	11/10/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2023
<u>FROM</u> 0.50000ml of WP105217 + 49.50000ml of WP102492 = Final Quantity: 50.000 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>
8	Calibration Standard 10 ppb	WP105222	11/09/2023	11/10/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2023
<u>FROM</u>	1.00000ml of WP105218 + 49.00000ml of WP102492 = 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	WP105223	11/09/2023	11/10/2023	Iwona Zarych	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/10/2023
<u>FROM</u> 0.50000ml of WP105218 + 49.50000ml of WP102492 = Final Quantity: 50.000 ml								

CHEMTECH

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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>
167	0 ppb CN calibration std	WP105224	11/09/2023	11/10/2023	Iwona Zarych	None	None	Jignesh Parikh
11/10/2023								

FROM 50.00000ml of WP102492 = 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	WP105226	11/09/2023	11/10/2023	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh
11/10/2023								

FROM 0.08000gram of W3021 + 20.00000ml of W2606 = Final Quantity: 20.000 ml

CHEMICAL RECEIPT LOG BOOK

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)	0000250349	12/15/2024	01/25/2022 / apatel	09/18/2021 / mohan	M5038

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)	22E1662006	03/07/2024	09/08/2023 / Al-Terek	04/11/2022 / Al-Terek	M5661

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-0400	12/31/2023	01/03/2022 /	08/16/2016 / apatel	W2162

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

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.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	21C2456604	01/31/2024	03/30/2022 / JIGNESH	06/24/2021 / apatel	W2845

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	1.00132.0100	04/30/2025	12/07/2021 /	11/30/2021 / apatel	W2882

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	002251-03319	06/06/2027	01/23/2023 / lwona	06/06/2022 / lwona	W3001

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.	JTE494-6 / CHLORAMINE-T BAKER 250GM	K53635226	08/31/2024	04/05/2023 / lwona	04/05/2023 / lwona	W3021

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	1305T82	11/30/2023	07/05/2023 / lwona	06/15/2023 / lwona	W3039

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	43080455	03/11/2024	11/02/2023 / lwona	10/30/2023 / lwona	W3061

W2918
W3001
rec. 06/06/22
exp. 06/06/27

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
Product	Magnesium chloride hexahydrate
Lot Number	002251-03319 Magnesium chloride•6H ₂ O
CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O
Molecular Weight	203.3

Appearance	Colorless crystals, very deliquescent
Heavy Metals	< 5 ppm
Anion	Nitrate : < 0.001% Phosphate : < 5 ppm Sulfate : < 0.002%
Cation	Ammonium : < 0.002% Barium : < 0.005% Calcium : 0.0006% Iron : < 5 ppm Manganese : 1.8 ppm Potassium : 0.0006% Sodium : 0.0008% Strontium : 0.0015%
Insoluble material	0.0025%
Assay by titration	100.29%
Grade	ACS reagent
Storage	Store at RT
Country of Origin	India

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002251-03319

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



Bala Kumar
Quality Control Manager

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:

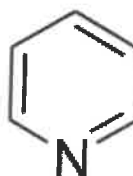
C₅H₅N

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.



W 3021
Rec. 4/5/23 12



Certificate of Analysis

1.02426.0000 Chloramine T trihydrate GR for analysis ACS,Reag. Ph Eur
Batch K53635226

Batch Values		
Assay (iodometric)	102.4	%
Identity (IR-spectrum)	passes test	
Appearance of solution	passes test	
pH-value (5 %; water)	8.3	
Bromide (Br)	passes test	
Matter insoluble in ethanol	< 0.1	%
ortho compounds	passes test	

Corresponds to ACS,Reag. Ph Eur

Date of release (DD.MM.YYYY) 06.09.2021
Minimum shelf life (DD.MM.YYYY) 31.08.2024

Dr. Sebastian Lips
Responsible laboratory manager quality control

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



Part of TCP Analytical Group

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

W 3061

REC. 10/30/23

12

Certificate of Analysis

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

Product Code: **LC135457**

Manufacture Date: September 11, 2023

Lot Number: **43080455**

Expiration Date: March 11, 2024

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.007mg/mL
Concentration (CN)	990 - 1,010ppm	1,007ppm
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. Balance, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

Quality Control

Michael Monteleone
Chemistry Supervisor

ISO 9001:2015 Registration #0306-01

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantorsm



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

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

Avantor Performance Materials, LLC

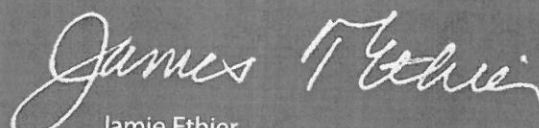
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg 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

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



M5661 M5662 M5663
M5664 M5665 M5666

Material No.: 9530–33
Batch No.: 22E1662006
Manufactured Date: 2022–04–11
Retest Date: 2027–04–10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
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	< 0.2 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	37.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 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	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

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



Material No.: 9530–33
Batch No.: 22E1662006

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	1.0 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	< 0.2 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	< 0.4 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 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.: 22E1662006

Test	Specification	Result
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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


Jamie Ethier
Vice President Global Quality

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700



Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE®
Batch N020065932

	Spec. Values		Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (Cl)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

Date of release (DD.MM.YYYY) 17.04.2020
Minimum shelf life (DD.MM.YYYY) 30.04.2025

Ioannis Chartomatsidis
Responsible laboratory manager quality control

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



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2008 Certified Program"

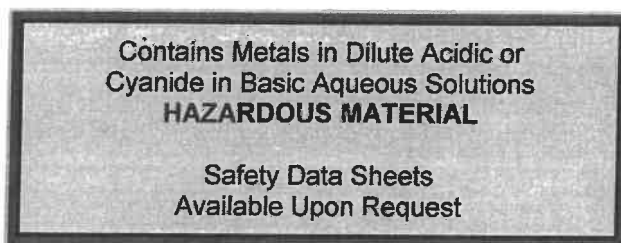
Instructions for QATS Reference Material: *Inorganic ICV Solutions*

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.



W2160

W2161

W2162

W2163

W2164

(A) **SAMPLE DESCRIPTION**

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-0307", "ICV5-0508", and "ICV6-0400", respectively.**

ad
9/2/12

(B) **BREAKAGE OR MISSING ITEMS**

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, CB&I Federal Services LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
CB&I Federal Services LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) **ANALYSIS OF SAMPLES**

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in $\mu\text{g/L}$ (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-0307 For ICP-AES use: dilute the ICV1 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2008 Certified Program"

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.

ICV5-0508 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

ICV1-0307		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2521	504
Sb	994	199
As	999	200
Ba	497	99
Be	495	99
Cd	496	99
Ca	10026	2005
Cr	490	98
Co	499	100
Cu	492	98
Fe	5082	1016
Pb	1002	200
Mg	6074	1215
Mn	499	100
Ni	503	101
K	10021	2004
Se	1029	206
Ag	501	100
Na	10097	2019
Tl	1028	206
V	501	100
Zn	1025	205

W2160
W2161
W2162
W2163
W2164

AL
7/2/16

ICV5-0508		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

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	$\leq 0.01 \%$	< 0.01
Chloride (Cl)	$\leq 5 \text{ ppm}$	< 5
ACS – Sulfate (SO_4)	$\leq 0.003 \%$	< 0.003
Calcium (Ca)	$\leq 0.005 \%$	< 0.005
Potassium (K)	$\leq 0.01 \%$	< 0.01
Heavy Metals (as Pb)	$\leq 0.001 \%$	< 0.001
Trace Impurities – Iron (Fe)	$\leq 0.001 \%$	< 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

**RICCA CHEMICAL COMPANY®**

W3039 12

rec. 6/15/23

448 West Fork Dr

Arlington, TX 76012

<http://www.riccachemical.com>

1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1000 ppm CN**Lot Number:** 1305T82**Product Number:** 2543**Manufacture Date:** MAY 30, 2023**Expiration Date:** NOV 2023

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
Sodium Hydroxide	1310-73-2	Reagent
Potassium Cyanide	151-50-8	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)
2543-4	120 mL amber poly	6 months

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



Heidi J Green (05/30/2023)

Operations Manager

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

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



PERCENT SOLID

Supervisor: Iwona

Analyst: JIGNESH

Date: 11/7/2023

OVENTEMP IN Celsius(°C): 107

Time IN: 17:25

In Date: 11/06/2023

Weight Check 1.0g: 1.00

Weight Check 10g: 10.00

OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103

Time OUT: 08:15

Out Date: 11/07/2023

Weight Check 1.0g: 1.00

Weight Check 10g: 10.00

BalanceID: M SC-4

Thermometer ID: %SOLIDS-OVEN

QC:LB128195

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
O5102-02	67S-SB02-0815	89	1.15	8.58	9.73	7.6	75.2	
O5102-03	67S-SB02-2628	90	1.14	8.64	9.78	6.04	56.7	
O5102-04	67S-SB04-1419	91	1.16	8.74	9.9	7.15	68.5	
O5102-05	67S-SB07-1418	92	1.15	8.81	9.96	7.55	72.6	
O5102-06	67S-SB08-1619	93	1.15	8.81	9.96	9.00	89.1	
O5102-07	67S-SB09-1314.5	94	1.19	8.79	9.98	5.8	52.4	
O5102-08	67S-SB11-1218	95	1.12	8.46	9.58	8.11	82.6	
O5102-09	67S-SB11-1218-D	96	1.19	8.47	9.66	8.02	80.6	
O5102-10	67S-SB14-1216	97	1.11	8.76	9.87	8.07	79.5	
O5102-11	67S-SB16-1617	98	1.17	8.55	9.72	7.46	73.6	
O5102-13	67-IDW-01	99	1.13	8.52	9.65	8.02	80.9	
O5244-01	1A	1	1.14	8.63	9.77	7.54	74.2	
O5244-04	2A	2	1.18	8.48	9.66	8.15	82.2	
O5244-07	3A	3	1.16	8.50	9.66	8.22	83.1	
O5244-10	4A	4	1.19	8.78	9.97	8.58	84.2	
O5244-13	5A	5	1.11	8.47	9.58	8.47	86.9	
O5244-16	6A	6	1.19	8.71	9.9	6.99	66.6	
O5244-19	7A	7	1.19	8.79	9.98	7.01	66.2	
O5245-02	8A	8	1.16	8.48	9.64	6.25	60.0	
O5245-05	9A	9	1.19	8.55	9.74	7.21	70.4	
O5245-08	10A	10	1.13	8.67	9.8	7.04	68.2	
O5245-11	11A	11	1.16	8.68	9.84	7.72	75.6	
O5245-14	12A	12	1.15	8.83	9.98	8.19	79.7	
O5245-17	13A	13	1.14	8.68	9.82	8.6	85.9	
O5245-20	14A	14	1.19	8.79	9.98	8.86	87.3	
O5246-03	15A	15	1.18	8.64	9.82	8.47	84.4	
O5246-06	16A	16	1.13	8.84	9.97	9.00	89.0	
O5246-09	17A	17	1.16	8.80	9.96	8.81	86.9	



PERCENT SOLID

Supervisor: Iwona

Analyst: JIGNESH

Date: 11/7/2023

OVENTEMP IN Celsius(°C): 107

Time IN: 17:25

In Date: 11/06/2023

Weight Check 1.0g: 1.00

Weight Check 10g: 10.00

OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103

Time OUT: 08:15

Out Date: 11/07/2023

Weight Check 1.0g: 1.00

Weight Check 10g: 10.00

BalanceID: M SC-4

Thermometer ID: %SOLIDS-OVEN

QC:LB128195

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
O5246-12	18A	18	1.13	8.75	9.88	8.64	85.8	
O5246-15	19A	19	1.18	8.50	9.68	8.56	86.8	
O5246-18	20B	20	1.18	8.78	9.96	7.48	71.8	
O5247-01	21B	21	1.18	8.46	9.64	8.2	83.0	
O5247-04	22B	22	1.18	8.79	9.97	8.7	85.6	
O5247-07	23B	23	1.15	8.80	9.95	8.51	83.6	
O5247-10	24B	24	1.18	8.41	9.59	8.37	85.5	
O5247-13	25B	25	1.14	8.65	9.79	8.84	89.0	
O5247-16	26A	26	1.17	8.57	9.74	8.42	84.6	
O5247-19	27A	27	1.19	8.59	9.78	7.36	71.8	
O5248-02	28A	28	1.19	8.80	9.99	7.44	71.0	
O5248-03	29A	29	1.12	8.71	9.83	8.21	81.4	
O5248-04	30A	30	1.19	8.58	9.77	7.99	79.3	
O5248-05	31A	31	1.15	8.53	9.68	7.61	75.7	
O5248-06	32A	32	1.19	8.73	9.92	7.88	76.6	
O5248-07	33A	33	1.18	8.80	9.98	7.29	69.4	
O5248-08	34A	34	1.19	8.60	9.79	8.26	82.2	
O5248-09	35A	35	1.16	8.58	9.74	7.74	76.7	
O5248-10	DUP-1	36	1.15	8.51	9.66	7.49	74.5	
O5248-13	DUP-4	37	1.16	8.81	9.97	7.83	75.7	
O5248-14	DUP-5	38	1.19	8.55	9.74	8.32	83.4	
O5248-16	DUP-7	39	1.19	8.51	9.7	7.1	69.4	
O5251-01	T-1	40	1.12	8.76	9.88	8.27	81.6	
O5251-02	T-2	41	1.19	8.50	9.69	8.42	85.1	
O5251-03	T-3	42	1.15	8.52	9.67	8.14	82.0	
O5251-04	T-4	43	1.19	8.43	9.62	8.39	85.4	
O5251-05	T-5	44	1.16	8.39	9.55	8.39	86.2	
O5251-06	T-6	45	1.18	8.63	9.81	8.22	81.6	



PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 11/7/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/06/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/07/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB128195

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
O5251-07	T-7	46	1.17	8.50	9.67	8.55	86.8	
O5251-08	T-8	47	1.19	8.69	9.88	8.73	86.8	
O5251-09	T-9	48	1.12	8.70	9.82	8.76	87.8	
O5251-10	T-10	49	1.19	8.73	9.92	8.85	87.7	
O5251-11	T-11	50	1.19	8.65	9.84	8.68	86.6	
O5252-01	WASTE	51	1.17	8.60	9.77	8.96	90.6	
O5253-01	L-1 (65FT) (5-10)	52	1.18	8.53	9.71	8.35	84.1	
O5253-02	L-6 (0-5)	53	1.13	8.53	9.66	8.76	89.4	
O5253-03	L-3 (120FT) (0-5)	54	1.15	8.57	9.72	9.00	91.6	
O5253-04	L-3 (195FT) (0-5)	55	1.19	8.58	9.77	9.02	91.3	
O5258-01	01-A-01-B-01-C	56	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-02	02-A-02-B-02-C	57	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-03	03-A-03-B-03-C	58	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-04	04-A-04-B-04-C	59	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-05	05-A-05-B-05-C	60	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-06	06-A-06-B-06-C	61	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-07	07-A-07-B-07-C	62	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-08	08-A-08-B-08-C	63	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-09	09-A-09-B-09-C	64	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-10	10-A-10-B-10-C	65	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-11	11-A-11-B-11-C	66	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-12	12-A-12-B-12-C	67	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-13	13-A-14-B-14-C	68	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-14	14-A-14-B-14-C	69	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-15	15-A-15-B-15-C	70	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-16	16-A-16-B-16-C	71	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-17	17-A-17-B-17-C	72	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-18	18-A-18-B-18-C	73	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE



PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 11/7/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/06/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/07/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB128195

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
O5258-19	19-A-19-B-19-C	74	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-20	20-A-20-B-20-C	75	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-21	21-A-21-B-21-C	76	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-22	22-A-22-B-22-C	77	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-23	23-A-23-B-23-C	78	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-24	24-A-24-B-24-C	79	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-25	25-A-25-B-25-C	80	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-26	26-A-26-B-26-C	81	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5258-27	27-A-27-B-27-C	82	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O5266-01	1203	83	1.15	8.42	9.57	9.24	96.1	
O5267-01	ETGI-320	86	1.00	1.00	2.00	2.00	100.0	CONCRETE SAMPLE
O5270-01	OR-3-110623	84	1.18	8.80	9.98	9.34	92.7	
O5270-02	OR-3-110623-E2	85	1.13	8.80	9.93	9.01	89.5	
O5272-01	001	87	1.15	8.39	9.54	7.94	80.9	
O5272-02	002	88	1.15	8.39	9.54	7.94	80.9	

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

W 128195

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-110623

WorkList ID : 175305

Department : Wet-Chemistry

Date : 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5102-02	67S-SB02-0815	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-03	67S-SB02-2628	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-04	67S-SB04-1419	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-05	67S-SB07-1418	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-06	67S-SB08-1619	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-07	67S-SB09-1314.5	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-08	67S-SB11-1218	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/23/2023	Chemtech -SO
O5102-09	67S-SB11-1218-D	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/24/2023	Chemtech -SO
O5102-10	67S-SB14-1216	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/24/2023	Chemtech -SO
O5102-11	67S-SB16-1617	Solid	Percent Solids	Cool 4 deg C	TETR16	I41	10/24/2023	Chemtech -SO
O5244-01	1A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-04	2A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-07	3A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-10	4A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-13	5A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-16	6A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5244-19	7A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-02	8A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-05	9A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-08	10A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-11	11A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO

Date/Time 11-06-23 15:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11-06-23

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

128193

WorkList Name : %1-110623

WorkList ID : 175305

Department : Wet-Chemistry

Date : 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5245-14	12A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-17	13A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5245-20	14A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-03	15A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-06	16A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-09	17A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-12	18A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-15	19A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5246-18	20B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5247-01	21B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5247-04	22B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-07	23B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-10	24B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-13	25B	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-16	26A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5247-19	27A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5248-02	28A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/03/2023	Chemtech -SO
O5248-03	29A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-04	30A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-05	31A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-06	32A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO

Date/Time 11-06-23 15:30

Raw Sample Received by: 201691

Raw Sample Relinquished by: 381627

Date/Time 11-06-23

Raw Sample Received by: 17130

Raw Sample Relinquished by: 381627

128195

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-110623

WorkList ID : 175305

Department : Wet-Chemistry

Date : 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5248-07	33A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-08	34A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-09	35A	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-10	DUP-1	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-13	DUP-4	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-14	DUP-5	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5248-16	DUP-7	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5251-01	T-1	Solid	Percent Solids	Cool 4 deg C	ATCE02	I41	11/02/2023	Chemtech -SO
O5251-02	T-2	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-03	T-3	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-04	T-4	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-05	T-5	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-06	T-6	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-07	T-7	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-08	T-8	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-09	T-9	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-10	T-10	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5251-11	T-11	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5252-01	WASTE	Solid	Percent Solids	Cool 4 deg C	RMJE02	L21	11/02/2023	Chemtech -SO
O5253-01	L-1(65FT)(5-10)	Solid	Percent Solids	Cool 4 deg C	GEIC06	L21	11/03/2023	Chemtech -SO
O5253-02	L-6(0-5)	Solid	Percent Solids	Cool 4 deg C	GEIC06	L21	11/03/2023	Chemtech -SO

Date/Time 11-06-23 15:30
 Raw Sample Received by: 201 WCJ
 Raw Sample Relinquished by: CQJ

Date/Time 11-06-23 17:30
 Raw Sample Received by: el S
 Raw Sample Relinquished by: 301 WCJ

128195

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-110623

WorkList ID : 175305

Department : Wet-Chemistry

Date : 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5253-03	L-3(120FT)(0-5)	Solid	Percent Solids	Cool 4 deg C	GEIC06	L21	11/03/2023	Chemtech -SO
O5253-04	L-3(195FT)(0-5)	Solid	Percent Solids	Cool 4 deg C	GEIC06	L21	11/03/2023	Chemtech -SO
O5258-01	01-A-01-B-01-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-02	02-A-02-B-02-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-03	03-A-03-B-03-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-04	04-A-04-B-04-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-05	05-A-05-B-05-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-06	06-A-06-B-06-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-07	07-A-07-B-07-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-08	08-A-08-B-08-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-09	09-A-09-B-09-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-10	10-A-10-B-10-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-11	11-A-11-B-11-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-12	12-A-12-B-12-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-13	13-A-14-B-14-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-14	14-A-14-B-14-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-15	15-A-15-B-15-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-16	16-A-16-B-16-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-17	17-A-17-B-17-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-18	18-A-18-B-18-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-19	19-A-19-B-19-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO

Date/Time 11-06-23 15:30

Raw Sample Received by: JGWC

Raw Sample Relinquished by: JGWC

Date/Time 11-06-23 17:30

Raw Sample Received by: JGWC

Raw Sample Relinquished by: JGWC

128193

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-110623

WorkList ID : 175305

Department : Wet-Chemistry

Date : 11-06-2023 08:43:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O5258-20	20-A-20-B-20-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-21	21-A-21-B-21-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-22	22-A-22-B-22-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-23	23-A-23-B-23-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-24	24-A-24-B-24-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-25	25-A-25-B-25-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-26	26-A-26-B-26-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5258-27	27-A-27-B-27-C	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5266-01	1203	Solid	Percent Solids	Cool 4 deg C	BSIG01	L21	11/03/2023	Chemtech -SO
O5267-01	ETGI-320	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	11/06/2023	Chemtech -SO
O5270-01	OR-3-110623	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/06/2023	Chemtech -SO
O5270-02	OR-3-110623-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I31	11/06/2023	Chemtech -SO
O5272-01	001	Solid	Percent Solids	Cool 4 deg C	PSEG05	I31	11/06/2023	Chemtech -SO
O5272-02	002	Solid	Percent Solids	Cool 4 deg C	CONS03	I41	11/02/2023	Chemtech -SO
					CONS03	I41	11/02/2023	Chemtech -SO

11-06-23 15:30

Date/Time

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11-06-23 17:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. 05252
QUOTE NO.
COC Number 2042541

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Rm5
ADDRESS: PO Box 719
CITY: Totowa STATE: NJ ZIP: 07511
ATTENTION: Jonathan Pereira
PHONE: 551 271 9485 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: 245 Greenwood
PROJECT NO.: LOCATION: Midland Park
PROJECT MANAGER: Jonathan Pereira
e-mail:
PHONE: 973 633 0020 FAX: 973 633 0019

CLIENT BILLING INFORMATION

BILL TO: Rm5 PO#:
ADDRESS: PO Box 719
CITY: Totowa STATE: NJ ZIP: 07511
ATTENTION: Rita Della Fave PHONE:

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 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: NJ EDD

EPH
TAL
TAL+30
Paint Filter
TCLP Metals
VOC

ANALYSIS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	Waste	Soil	X		11/3/23	1120	2	X	X	X	H						H = Hold	
2.	Waste - VOC	↓		X	11/3/23	1126	3					X						
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. Jherain	DATE/TIME: 11/3/23 1402	RECEIVED BY: JT	Conditions of bottles or coolers at receipt: COMPLIANT ☒ NON COMPLIANT ☐ COOLER TEMP: 3.8 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments: Hold TCLP Metal Analysis
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY:	

Page ____ of ____

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

Shipment Complete
☐ YES ☐ NO



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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16

LOGIN REPORT/SAMPLE TRANSFER

Order ID : 05252 RMJE02

Order Date : 11/3/2023 2:14:16 PM

Project Mgr : Yazmeen

Client Name : RMJ Environomics, Inc.

Project Name : 245 Greenwood Ave

Report Type : NJ Reduced

Client Contact : Jonathan Pereira

Receive DateTime : 11/3/2023 2:02:00 PM

EDD Type : HAZ/EXCEL

Invoice Name : RMJ Environomics, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Jonathan Pereira

Date Signoff : 11/6/2023 9:49:22 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O5252-03	WASTE-VOC	Solid	11/03/2023	11:26	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By :



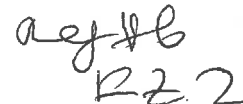
Date / Time :

11/6/23 10:30

Received By :



Date / Time :

11/6/23 10:30 
R22

Storage Area : VOA Refridgerator Room