SDG COVER PAGE

	TTUTIOC	Technical Group,	LLC	Contract	: 68HERH20	D0011	
ab Code: AC	E	Case No.: 51	810	MA No.:			SDG No.: MC0VG5
OW No.: SF	AM01.1						
EPA Sample No		Lab Sample Id		ICP-AES	Analysis ICP-MS		Cyanide
	•			ICF-ALS	ICF-M5	Mercury	Cyanitde
MC0VG5		P4654-01				X	
MC0VH9		P4654-02				X	
MC0VJ3		P4654-03				X	
MC0VJ4		P4654-04				X	
MC0VJ5		P4654-05				X	
MC0VJ6		P4654-06				X	
MC0VJ7		P4654-07				X	
MC0VJ8		P4654-08				X	
MC0VJ9		P4654-09				X	
MC0VK0		P4654-10				X	
MC0VK0D		P4654-11				X	
MC0VK0S		P4654-12				X	
MC0VK1		P4654-13				X	
MC0VK2		P4654-14				X	
MC0VK3		P4654-15				X	
MC0VK4		P4654-16				X	
MC0VK5		P4654-17				X	
MC0VK6		P4654-18			_	X	
MC0VK7		P4654-19				X	
MC0VK8		P4654-20				X	
MC0VK9		P4654-21				X	

USEPA CLP COC (LAB COPY)

DateShipped: 10/30/2024
CarrierName: Led Of
AirbillNo: 779632145128

CHAIN OF CUSTODY RECORD

Case #: 51810 Cooler #:

No: 3-102924-161112-0004

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

EAUUZZ-GB	EAUUZZ-EY	EA0019-GB	EA0019-EY	EA0015-GB-DUP	EA0017-GB	EA0015-GB	EA0013-GB	EA0020-EY	Sample Identifier
MCOAGO	MCOVH9	MCOVH7	MC0VH6	MC0VH4	MC0VH3	MC0VH2	MC0VH1	MC0VG5	CLP Sample No.
Soil START	Soil/ START	Soil/ START	Soil/ START	Soil/ START	Soil/ START	Soil/ START	Soil/ START	Soil/ START	Matrix/Sampler
Grab	Composite	Grab	Composite	Grab	Grab	Grab	Grab	Composite	Coll. Method
ICP-AES(21)	Hg(21)	ICP-AES(21)	Hg(21)	ICP-AES(21)	ICP-AES(21)	ICP-AES(21)	ICP-AES(21)	Hg(21)	Analysis/Turnaround (Days)
- 1158 (<6C) (1)	• 1154 (<6C) (1)	3 1145 (<6C), 1146 (<6C) (2)	• 1141 (<6C), 4152 (<6C) (2)	* 1134 (<6C) (1)	c 1132 (<6C) (1)	g 1130 (<6C) (1)	, 1128 (<6C) (1)	p 1114 (<6C) (1)	Tag/Preservative/Bottles
0022	0022	0019	0019	0015	0017	0015	0013	0020	Location
10/30/2024 14:45	10/30/2024 14:35	10/30/2024 14:15	10/30/2024 14:07	10/30/2024 11:47	10/30/2024 13:16	10/30/2024 11:47	10/30/2024 10:41	10/30/2024 13:35	Collection Date/Time
	2	`	\					2	For Lab Use Only

Sample(s) to be used for Lab QC: EA0019-EY Tag 1141, EA0019-EY Tag 1152, EA0019-GB Tag 1145, EA0019-GB Tag 1146 - Special Instructions: Alliance Mercury + Metals 1 Analysis Key: Hg=CLP Mercury, ICP-AES=CLP ICP-AES Metals + Hg

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

items/Keason				
Relinquished by (Signature and Organization)	Elizabeth Donated			
Date/Time	10/30/24 167.00			
Received by (Signature and	2			
and Organization)	1			
Date/Time	945			
Sample Condition Upon Receipt	3.56 14 30x h2.18.00	12 most passion	The sur	

68HERH20D0011

SDG # MC0VG5

USEPA CLP COC (LAB COPY)

DateShipped: 11/1/2024
CarrierName: FedEx
AirbillNo: 779673325018

CHAIN OF CUSTODY RECORD

Case #: 51810 Cooler #:

No: 3-110124-084507-0019

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
EA0021-EY	MC0VJ3	Soil/ START	Composite	Hg(21)	1167 (<6C) (1)	0021	10/31/2024 09:30	-
EA0023-EY	MC0VJ4	Soil/ START	Composite	Hg(21)	1171 (<6C) (1)	0023	10/31/2024 11:15	۲
EA0025-EY	MC0VJ5	Soil/ START	Composite	Hg(21)	1175 (<6C) (1)	0025	10/31/2024 12:04	30
EA0026-EY	MC0VJ6	Soil/ START	Composite	Hg(21)	1179 (<6C) (1)	0026	10/31/2024 08:30	2.
EA0027-EY	MC0VJ7	Soil/ START	Composite	Hg(21)	1183 (<6C) (1)	0027	10/31/2024 13:13	13
EA0028-EY	MC0VJ8	Soil/ START	Composite	Hg(21)	1187 (<6C) (1)	0028	10/31/2024 09:20	6
EA0029-EY	MC0VJ9	Soil/ START	Composite	Hg(21)	1191 (<6C) (1)	0029	10/31/2024 12:50	ر
EA0030-EY	MCOVKO	Soil/ START	Composite	Hg(21)	1195 (<6C), 1198 (<6C) (2)	0030	10/31/2024 10:10	ر گ ک
EA0024-EY	MC0VK1	Soil/ START	Composite	Hg(21)	1200 (<6C) (1)	0024	10/30/2024 17:40	ٔ م
EA0031-EY	MC0VK2	Soil/ START	Composite	Hg(21)	1204 (<6C) (1)	0031	10/31/2024 14:40	· 5
EA0032-EY	MC0VK3	Soil/ START	Composite	Hg(21)	1209 (<6C) (1)	0032	10/31/2024 11:30	
EA0033-EY	MC0VK4	Soil/ START	Composite	Hg(21)	1213 (<6C) (1)	0033	10/31/2024 14:50	ŕ
EA0034-EY	MC0VK5	Soil/ START	Composite	Hg(21)	1217 (<6C) (1)	0034	10/31/2024 15:40	રે
EA0035-EY	MC0VK6	Soil/ START	Composite	Hg(21)	1221 (<6C) (1)	0035	10/31/2024 15:44	ر د
EA0036-EY	MC0VK7	Soil/ START	Composite	Hg(21)	1225 (<6C) (1)	0036	10/31/2024 16:45	5
EA0037-EY	MC0VK8	Soil/ START	Composite	Hg(21)	1229 (<6C) (1)	0037	10/31/2024 16:55	7
EA0034-EY-DUP	MC0VK9	Soil/ START	Composite	Hg(21)	1233 (<6C) (1)	0034	10/31/2024 15:40	4
EA0030-GB	MCOVMO	Soil/ START	Grab	ICP-AES(21)	1260 (<6C) (1)	0030	10/31/2024 10:30	
EA0036-GB	MC0VM6	Soil/ START	Grab	ICP-AES(21)	1272 (<6C) (1)	0036	10/31/2024 16:55	

Sample(s) to be used for Lab QC: EA0030-EY Tag 1195, EA0030-EY Tag 1198, EA0030-GB Tag 1260 - Special Instructions: Alliance Metals 4

Shipment for Case Complete? N
Samples Transferred From Chain of Custody#

Analysis Key: Hg=CLP Mercury, ICP-AES=CLP ICP-AES Metals + Hg

				Items/Reason
			Elizable Bardelow It	Items/Reason Relinquished by (Signature and Organization) Date/Time
			MONTY	Date/Time
			Nun	Received by (Signature and Organization)
		からい	11/2/24	Date/Time
Cindra Const	Typ 15 han (Run)	Then+	2.4.5	Sample Condition Upon Receipt

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group,	/ /	Page 1 of 2
Received By (Print Name)	ova Keña	Log-in Date 10/31/2024
Received By (Signature)		
Case Number 51810	SDG No. MC0VG5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779632145128
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/31/2024
12.Time Received	09:45

			Correspor	iding	Damasulas
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MC0VG5	N/A	1114	P4654-01	Intact
2	MC0VH9	N/A	1154	P4654-02	Intact
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	10 31 24	Logbook Page No.	N/A

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name: Alliance Technical Group,	Lab Name: Alliance Technical Group, LLC				
Received By (Print Name) Const	DEGROW	Log-in Date 11/2/2024			
Received By (Signature)	6.0				
Case Number 51810	SDG No. MC0VG5	MA No. N/A			

	T
Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779673325018</u> <u>2</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	11/02/2024
12.Time Received	09:40

	1		1		Ι
			Correspon	ding	
					Remarks: Condition
		Aqueous	ď		of Sample
	EPA	Water	Sample	Assigned	
	Sample #	Sample pH	Tag #	Lab #	etc.
1	MC0VJ3	N/A	1167	P4654-03	Intact
2	MC0VJ4	N/A	1171	P4654-04	Intact
3	MC0VJ5	+	1175		Intact
		N/A		P4654-05	
4	MC0VJ6	N/A	1179	P4654-06	Intact
5	MC0VJ7	N/A	1183	P4654-07	Intact
6	MC0VJ8	N/A	1187	P4654-08	Intact
7	MC0VJ9	N/A	1191	P4654-09	Intact
8	MC0VK0	N/A	1195,98	P4654-10	Intact
9	MC0VK0D	N/A	1195,98	P4654-11	Intact
10	MC0VK0S	N/A	1195,98	P4654-12	Intact
11	MC0VK1	N/A	1200	P4654-13	Intact
12	MC0VK2	N/A	1204	P4654-14	Intact
13	MC0VK3	N/A	1209	P4654-15	Intact
14	MC0VK4	N/A	1213	P4654-16	Intact
15	MC0VK5	N/A	1217	P4654-17	Intact
16	MC0VK6	N/A	1221	P4654-18	Intact
17	MC0VK7	N/A	1225	P4654-19	Intact
18	MC0VK8	N/A	1229	P4654-20	Intact
19	MC0VK9	N/A	1233	P4654-21	Intact
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	11/4/24	Logbook Page No.	N/A

FORM DC-2 COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	Alliance Tech	nnical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51810	SDG NO.	MC0VG5	
MA NO.		SOW NO.	SFAM01.1	
				

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

, , , , , , , , , , , , , , , , , , , ,				
	PAGE N	10s:	СН	ECK
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1		
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	5	✓	
4. CSF Inventory Sheet (DC-2)	6	8	✓	
5. SDG Narrative	9	10	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	11	12	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA	_	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	1	
11. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	_	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	_	
14. Extraction Logs for TCLP and SPLP	NA	NA		
15 . Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	_	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA	_	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	NA	NA_	_	
Other Data				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
<pre>Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions</pre>	NA_	NA	✓	

	PAGE 1	10s:	СН	ECK
	FROM	TO	LAB	REGION
23 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
24 . Raw GPC Data	NA	NA	✓	
25 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	13	31	_	
or sample analysis, laboratory QC as applicable 27. Instrument raw data by instrument in analysis order	32	34		
Other Data				
28. Standard and Reagent Preparation Logs	35	60	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	61	64	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33 . Raw GPC Data	NA	NA	✓	
34 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA_	NA	✓	
or sample analysis, laboratory QC as applicable 36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or	NA_	NA	✓	
Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA_	NA	✓	
Instructions 41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	✓	
43 . Raw Florisil Data	NA	NA	✓	

		<u>I</u>	PAGE 1	NOs:	CH	IECK
		FR	MOM	TO	LAB	REGION
Additional						
44. EPA Shipping/Re	ceiving Documents					
Airbill (No. of	Shipments 2)		65	66	_ ✓	
Sample Tags			NA	NA	✓	
Sample Log-In S	Sheet (Lab)		67	68	√	
45. Misc. Shipping/	Receiving Records(list all individual reco	rds)				
			NA	NA		
46. Internal Lab Sa	ample Transfer Records and Tracking Sheets					
(describe or li	.st)					
		_	NA_	NA		
		_				
	and related Communication Logs					
(describe or li	.st)		NA	NA		
				1421		
-		_	—			
		_	—			
48. Comments:						
Completed by: (CLP Lab)	Nimisha	Pandya, Document Co	ntrol	Officer		
		Name & Title)	10101	OTTICCI	(Da	te)
Audited by:						
(EPA)	gnature) (Print	Name & Title)			(Da	te)
(01)	J.140410, (IIIIII	- 11am a 11ctc)			(Da	cc,



SDG NARRATIVE

USEPA
SDG # MC0VG5
CASE # 51810
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4654

A. Number of Samples and Date of Receipt

19 Soil samples were delivered to the laboratory intact on 10/31/2024, 11/02/2024

B. Parameters

Test requested for Mercury.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 2.6°C, 2.4°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution 1 : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg:



284 Sheffield Street Mountainside, NJ 07092

Concentration (mg/kg) =
$$C \times Vf \times DF / 1000$$

W x S

Where,

C = Instrument response in μ g/L from the calibration curve.

Vf = Final prepared (absorbing solution) volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

Example Calculation For Sample MC0VG5:

$$\label{eq:first-condition} \begin{split} & \text{If C} &= 1.0674 \text{ ppb} \\ & \text{Vf} = 100 \text{ mL} \\ & \text{W} &= 0.60 \text{g} \\ & \text{S} &= 0.857(85.7/100) \\ & \text{DF} = 1 \end{split}$$

Concentration (mg/kg) =
$$1.0674 \text{ x} \frac{100}{0.60 \text{ x} 0.857} \text{ x } 1 / 1000$$

= 0.207584 mg/kg

= 0.21 mg/kg (Reported Result with Signification)

H. QA/QC

Calibrations met requirements. Blank analyses did not indicate any presence of contamination. Spike sample did meet requirements. Duplicate sample did meet requirements.

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 Director or his designee, as verified by the following signature.

Signature	Name: Nimisha Pandya
Date	Title: Document Control Officer



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh

Date: 11/5/2024

OVENTEMP IN Celsius(°C): 107

Time IN: 13:50

In Date: 11/04/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

OvenID: M OVEN#1

OVENTEMP OUT Celsius (°C): 103

Time OUT: 08:00

Out Date: 11/05/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

Qc:LB133269

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)		Dish+Dry Sample Wt(g)(C)	% Solid	Comments
P4654-01	MC0VG5	8	1.13	8.62	9.75	8.52	85.7	
P4654-02	MC0VH9	9	1.17	8.64	9.81	8.66	86.7	
P4654-03	MC0VJ3	1	1.14	8.70	9.84	7.36	71.5	
P4654-04	MC0VJ4	2	1.18	8.74	9.92	8.75	86.6	
P4654-05	MC0VJ5	3	1.15	8.82	9.97	8.76	86.3	
P4654-06	MC0VJ6	4	1.12	8.67	9.79	7.79	76.9	
P4654-07	MC0VJ7	5	1.16	8.50	9.66	8.67	88.4	
P4654-08	MC0VJ8	6	1.18	8.44	9.62	7.95	80.2	
P4654-09	MC0VJ9	7	1.18	8.57	9.75	8.26	82.6	
P4654-10	MC0VK0	10	1.18	8.62	9.8	8.18	81.2	
P4654-11	MC0VK0D	11	1.18	8.62	9.8	8.18	81.2	
P4654-12	MC0VK0S	12	1.18	8.62	9.8	8.18	81.2	
P4654-13	MC0VK1	13	1.19	8.52	9.71	8.43	85.0	
P4654-14	MC0VK2	14	1.15	8.79	9.94	9.17	91.2	
P4654-15	MC0VK3	15	1.12	8.64	9.76	7.78	77.1	
P4654-16	MC0VK4	16	1.17	8.60	9.77	8.11	80.7	
P4654-17	MC0VK5	17	1.19	8.54	9.73	8.52	85.8	
P4654-18	MC0VK6	18	1.19	8.59	9.78	8.18	81.4	
P4654-19	MC0VK7	19	1.12	8.86	9.98	8.76	86.2	
P4654-20	MC0VK8	20	1.14	8.58	9.72	8.27	83.1	
P4654-21	MC0VK9	21	1.11	8.88	9.99	8.55	83.8	

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 185094 WorkList Name: %1-p4654

WY 133269

WorkList Name :	%1-p4654	WorkList ID :	ID: 185094	Department :	Wet-Chemistry		Date: 11-04-20	11-04-2024 10:22:47
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	le Collect Date	Method
P4654-01	MC0VG5	Solid	Percent Solids	(200)				
P4654-02	MC0VH9	3100		o fian 4 loop	USEP01	Q11	10/30/2024	Chemtech -SO
P4654-03	MCOVIS	pilos	Percent Solids	Cool 4 deg C	USEP01	Q11	10/30/2024	Chemtech -SO
D4664 04	COACO	Solid	Percent Solids	Cool 4 deg C	USEP01	D11	10/31/2024	Chemtech -SO
F4634-04	MC0VJ4	Solid	Percent Solids	Cool 4 deg C	USEP01	D110	10/31/2024	Chamtoch
P4654-05	MC0VJ5	Solid	Percent Solids	Cool 4 deg C	USEPO1	5	100011000	Oc- Ipalifection
P4654-06	MC0VJ6	Solid	Percent Solids	Cont 4 dea C		= 3	10/31/2024	Chemtech -SO
P4654-07	MC0VJ7	Pilos	Dorocotto			5	10/31/2024	Chemtech -SO
P4654-08	MCOV IR		spilos libris.	Cool 4 deg C	USEP01	Q11	10/31/2024	Chemtech -SO
D4664 00		Solid	Percent Solids	Cool 4 deg C	USEP01	011	10/31/2024	Chemtech -SO
74034-09	MC0VJ9	Solid	Percent Solids	Cool 4 deg C	USEP01	011	10/31/2024	Chomtoch
P4654-10	MC0VK0	Solid	Percent Solids	Cool 4 deg C	USEP01	0.43	4000,40004	
P4654-11	MC0VK0D	Solid	Percent Solids	Cool 4 dea C	2000		10/31/2024	Chemtech -SO
P4654-12	MCOVK0S	il or	Child O tracero		חבום חבות היות היות היות היות היות היות היות הי	2	10/31/2024	Chemtech -SO
P4654-13	MCOVK4			Cool 4 deg C	USEP01	Q11	10/31/2024	Chemtech -SO
D4664 44		Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/31/2024	Chemtech -SO
14004-14	MCUVK2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/31/2024	Chemtech
F4654-15	MC0VK3	Solid	Percent Solids	Cool 4 deg C	USEP01	011	10/31/2024	
P4654-16	MC0VK4	Solid	Percent Solids	Cool 4 dea C	- INEEDO1	2	4202/15/01	Chemiech - 50
P4654-17	MC0VK5	Solid	Percent Solids	Cool 4 dea C	COELOI	3 3	10/31/2024	Chemtech -SO
P4654-18	MC0VK6	Solid	Percent Solids	Cool Alon		5	10/31/2024	Chemtech -SO
P4654-19	MC0VK7	rii o		O Sen tions	USEPU1	Q11	10/31/2024	Chemtech -SO
P4654-20	MCOVICO	pillo	Percent Solids	Cool 4 deg C	USEP01	Q11	10/31/2024	Chemtech -SO
1	WCOVNO.	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/31/2024	Chemtech -SO
7-1-601-2	MCUVK9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/31/2024	Chemtech -SO
Date/Time 1104124	131.00	1			Date/Time	11)04/24	121	1460

Raw Sample Received by: - RA WIC

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Relinquished by: Raw Sample Received by:

14600

Date/Time 1104/Ah

FORM 1 - IN

MC0VG5

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Matrix: SOIL Lab Sample ID: P4654-01

% Solids: 85.7 Date Received: 10/31/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$: mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.21		11/21/2024	1110

NOTE: Hardness (total) is reported in mg/L

MC0VH9

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-02

% Solids: 86.7

Date Received: 10/31/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$:

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.18		11/21/2024	1112

NOTE: Hardness (total) is reported in mg/L

MC0VJ3

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-03

% Solids: 71.5

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$:

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.13		11/21/2024	1115

NOTE: Hardness (total) is reported in mg/L

MC0VJ4

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

INORGANIC	ANALYSIS	DATA	SHEET	

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Matrix: SOIL Lab Sample ID: P4654-04

% Solids: 86.6 Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$: mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.15		11/21/2024	1117

NOTE: Hardness (total) is reported in mg/L

MC0VJ5

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-05

% Solids: 86.3

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$:

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20		11/21/2024	1119

NOTE: Hardness (total) is reported in mg/L

MC0VJ6

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-06

% Solids: 76.9

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight}$, μg , or $\mu g/cm^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.60		11/21/2024	1121

NOTE: Hardness (total) is reported in mg/L

MC0VJ7

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-07

% Solids: 88.4

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$:

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11		11/21/2024	1124

NOTE: Hardness (total) is reported in mg/L

MC0VJ8

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-08

% Solids: 80.2

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$:

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.24		11/21/2024	1126

NOTE: Hardness (total) is reported in mg/L

MC0VJ9

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-09

% Solids: 82.6

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight}$, μg , or $\mu g/cm^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.18		11/21/2024	1128

NOTE: Hardness (total) is reported in mg/L

FORM 1 - IN

MC0VK0

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Matrix: SOIL Lab Sample ID: P4654-10

% Solids: 81.2 Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$: mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.18		11/21/2024	1130

NOTE: Hardness (total) is reported in mg/L

MC0VK1

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-13

% Solids: 85

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight}$, μg , or $\mu g/cm^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.30		11/21/2024	1140

NOTE: Hardness (total) is reported in mg/L

MC0VK2

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Matrix: SOIL Lab Sample ID: P4654-14

% Solids: 91.2 Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$: mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.15		11/21/2024	1142

NOTE: Hardness (total) is reported in mg/L

FORM 1 - IN M

MC0VK3

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Matrix: SOIL Lab Sample ID: P4654-15

% Solids: 77.1 Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$: mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.26		11/21/2024	1144

NOTE: Hardness (total) is reported in mg/L

FORM 1 - IN

MC0VK4	

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MCOVG5

INORGANIC ANALYSIS DATA SHEET

Lab Sample ID: P4654-16

Matrix: SOIL

% Solids: 80.7

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight}$, μg , or $\mu g/cm^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.32		11/21/2024	1147

NOTE: Hardness (total) is reported in mg/L

MC0VK5

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-17

% Solids: 85.8

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight}$, μg , or $\mu g/cm^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed	
7439-97-6	Mercury	0.17		11/21/2024	1149	

NOTE: Hardness (total) is reported in mg/L

MC0VK6

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE

Case No.: 51810 MA No.: SDG No.: MC0VG5

Matrix: SOIL

Lab Sample ID: P4654-18

% Solids: 81.4

Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$:

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed	
7439-97-6	Mercury	0.13		11/21/2024	1151	

NOTE: Hardness (total) is reported in mg/L

MC0VK7

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Matrix: SOIL Lab Sample ID: P4654-19

% Solids: 86.2 Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$: mg/kg

CAS No.	Analyte	Concentration Q		Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.14		11/21/2024	1153

NOTE: Hardness (total) is reported in mg/L

FORM 1 - IN

MC0VK8 INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Case No.: 51810 MA No.: SDG No.: MC0VG5 Lab Code: ACE

Matrix: SOIL Lab Sample ID: P4654-20

% Solids: 83.1 Date Received: 11/02/2024

Analytical Method: Hg

Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight}$, μg , or $\mu g/cm^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.57		11/21/2024	1200

NOTE: Hardness (total) is reported in mg/L

FORM 1 - IN MCC

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Matrix: SOIL Lab Sample ID: P4654-21

% Solids: 83.8 Date Received: 11/02/2024

Analytical Method: Hg

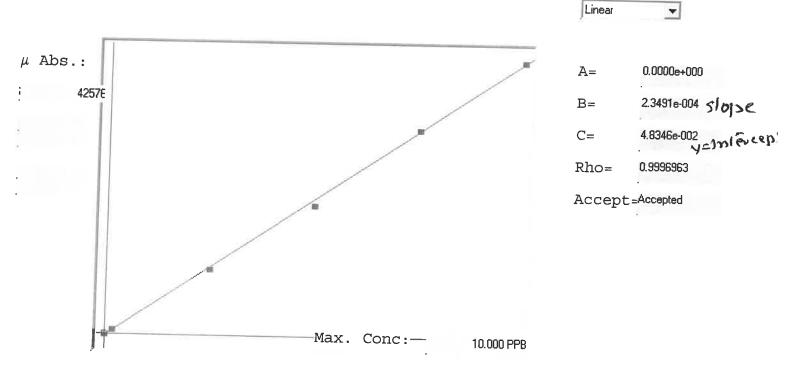
Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$: mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.17		11/21/2024	1203

NOTE: Hardness (total) is reported in mg/L

SFAMO1.1

INSTRUMENT ID: CV1



Conc.	Calc.	Dev.	Mean	SD or %RSD	Pen 1	Pon 3	D 0			61 n
0.000	0.060					Rep 2	Rep 3	Rep 4	Rep 5	9/01)
0.050			٠.	0.000						=
0.200	0.252	0.052	868	0.0%		U				26
2.500	95-46	100		53	2.5					-2
5.000	2.74		5.75	9	100					
7.500	257			11100						-4
10.000				10.7	1.0					1
	0.000 0.050 0.200 2.500 5.000	0.000 0.060 0.050 0.200 0.252 2.500 2.462 5.000 4.812 7.500 7.563	0.000 0.060 0.060 0.050 0.200 0.252 0.052 2.500 2.462 -0.038 5.000 4.812 -0.188 7.500 7.563 0.063	0.000 0.060 0.060 51 0.050 0.200 0.252 0.052 868 2.500 2.462 -0.038 10275 5.000 4.812 -0.188 20279 7.500 7.563 0.063 31991	0.000 0.060 0.060 51 0.000 0.050 0.200 0.252 0.052 868 0.0 % 2.500 2.462 -0.038 10275 0.0 % 5.000 4.812 -0.188 20279 0.0 % 7.500 7.563 0.063 31991 0.0 %	0.000 0.060 0.060 51 0.000 51 0.050 0.200 0.252 0.052 868 0.0 % 868 2.500 2.462 -0.038 10275 0.0 % 10275 5.000 4.812 -0.188 20279 0.0 % 20279 7.500 7.563 0.063 31991 0.0 % 31991 10.000 4.000 4.000 4.000 4.000 4.000 4.000	0.000 0.060 0.060 51 0.000 51 0.050 0.200 0.252 0.052 868 0.0 % 868 2.500 2.462 -0.038 10275 0.0 % 10275 5.000 4.812 -0.188 20279 0.0 % 20279 7.500 7.563 0.063 31991 0.0 % 31991 10.000 40.050 0.063 31991 0.0 % 31991	0.000	0.000 0.060 0.060 51 0.000 51 0.050 0.200 0.252 0.052 868 0.0 % 868 2.500 2.462 -0.038 10275 0.0 % 10275 5.000 4.812 -0.188 20279 0.0 % 20279 7.500 7.563 0.063 31991 0.0 % 31991 10.000 40.059 0.078 10.079 10.079	0.000

LB133546 INSTRUMEN ID : CV1

Sample ID		,		Stnd Conc Metho	d Unit	s Date Type
	0 S0	51		0 SFAM0	1.1 PPB	11/21/2024 10:34 Std
	0.2 S01	868		0.2 SFAMO	1.1 PPB	11/21/2024 10:36 Std
	2.5 502	10275	-	2.5 SFAMO	1.1 PPB	11/21/2024 10:39 Std
	5 S03	20279	-	5 SFAMO	1.1 PPB	11/21/2024 10:41 Std
	7.5 S04	31991	-	7.5 SFAM0	l.1 PPB	11/21/2024 10:46 Std
	10 S05	42576	-	10 SFAMO:	l.1 PPB	11/21/2024 10:48 Std
ICV094	ICV094	15939	3.7926	- SFAMO:	L.1 PPB	11/21/2024 10:59 SMPL
ICB094	ICB094	-25	0.0425	- SFAMO:	.1 PPB	11/21/2024 11:01 SMPL
CCV021	CCV021	19566	4.6446	- SFAM01	1 PPB	11/21/2024 11:03 SMPL
CCB021	CCB021	-61	0.034	- SFAM01	1 PPB	11/21/2024 11:05 SMPL
PB165162	BL PBS162	30	0.0554	- SFAM01	.1 PPB	11/21/2024 11:08 SMPL
P4654-01	MC0VG5	4338	1.0674	- SFAM01	.1 PPB	11/21/2024 11:10 SMPL
P4654-02	MC0VH9	3733	0.9253	- SFAM01	.1 PPB	11/21/2024 11:12 SMPL
P4654-03	MC0VJ3	1925	0.5005	SFAM01	.1 PPB	11/21/2024 11:15 SMPL
P4654-04	MC0VJ4	2863	0.7209	SFAM01	.1 PPB	11/21/2024 11:17 SMPL
P4654-05	MC0VJ5	3611	0.8966	SFAM01	.1 PPB	11/21/2024 11:19 SMPL
P4654-06	MC0VJ6	11252	2.6916 -	SFAM01	.1 PPB	11/21/2024 11:21 SMPL
P4654-07	MC0VJ7	2065	0.5334 -	SFAM01	1 PPB	11/21/2024 11:24 SMPL
P4654-08	MC0VJ8	4013	0.991 -	SFAM01	1 PPB	11/21/2024 11:26 SMPL
P4654-09	MC0VJ9	3070	0.7695 -	SFAM01	1 PPB	11/21/2024 11:28 SMPL
P4654-10	MC0VK0	3224	0.8057 -	SFAM01	1 PPB	11/21/2024 11:30 SMPL
P4654-11	MC0VK0D	3420	0.8517 -	SFAM01.	1 PPB	11/21/2024 11:33 SMPL
P4654-12	MCOVKOS	11548	2.7611 -	SFAM01.		11/21/2024 11:37 SMPL
P4654-13	MC0VK1	5413	1.3199 -	SFAM01.		11/21/2024 11:40 SMPL
P4654-14	MC0VK2	2898	0.7291 -	SFAM01.		11/21/2024 11:42 SMPL
P4654-15	MC0VK3	4917	1.2034 -	SFAM01.		11/21/2024 11:44 SMPL
P4654-16	MC0VK4	5803	1.4115 -	SFAM01.	1 PPB	11/21/2024 11:47 SMPL
P4654-17	MC0VK5	3293	0.8219 -	SFAM01.	1 PPB	11/21/2024 11:49 SMPL
P4654-18	MC0VK6	2406	0.6135 -	SFAM01.		11/21/2024 11:51 SMPL
P4654-19	MC0VK7	2428	0.6187 -	SFAM01.		11/21/2024 11:53 SMPL
CCV022	CCV022	19931	4.7303 -	SFAM01.		11/21/2024 11:56 SMPL
CCB022	CCB022	-116	0.0211 -	SFAM01.		11/21/2024 11:58 SMPL
P4654-20	MC0VK8	10174	2.4383 -	SFAM01.1	PPB	11/21/2024 12:00 SMPL
P4654-21	MC0VK9	3324	0.8292 -	SFAM01.1		11/21/2024 12:03 SMPL
PB165163BL	. PBS163	-88	0.0277 -	SFAM01.1	PPB	11/21/2024 12:08 SMPL
P4656-01	MC0VH4	3183	0.7961 -	SFAM01.1		11/21/2024 12:10 SMPL
P4656-02	MC0VJ0	6618	1.603 -	SFAM01.1	PPB	11/21/2024 12:12 SMPL
P4656-03	MC0VM0	2792	0.7042 -	SFAM01.1		11/21/2024 12:14 SMPL
P4656-04	MC0VM0D	2676	0.677 -	SFAM01.1		11/21/2024 12:17 SMPL
P4656-05	MCOVMOS	12639	3.0174 -	SFAM01.1		11/21/2024 12:19 SMPL
P4656-06	MC0VM6	834	0.2443 -	SFAM01.1		11/21/2024 12:21 SMPL
P4656-07	MCOVM7		2.0911 -	SFAM01.1		11/21/2024 12:24 SMPL
P4688-01	MC0VL1	2395	0.611 -	SFAM01.1		11/21/2024 12:26 SMPL
P4688-02	MCOVL2		0.4402 -	SFAM01.1		11/21/2024 12:28 SMPL
P4688-03	MC0VL3		0.6091 -	SFAM01.1		11/21/2024 12:30 SMPL
P4688-04	MC0VL4	2097	0.541 -	SFAM01.1		11/21/2024 12:33 SMPL
				********		,, : : : : : : _

LB133546 INSTRUMEN ID : CV1

P4688-05	MC0VL5	6336	1.5367 -	SFAM01.1	PPB	11/21/2024 12:35 SMPL
P4688-06	MC0VL6	2828	0.7127 -	SFAM01.1	PPB	11/21/2024 12:37 SMPL
P4688-07	MC0VL7	11994	2.8659 -	SFAM01.1	PPB	11/21/2024 12:39 SMPL
P4688-08	MC0VL8	3823	0.9464 -	SFAM01.1	PPB	11/21/2024 12:42 SMPL
P4688-09	MC0VL9	3085	0.773 -	SFAM01.1	PPB	11/21/2024 12:44 SMPL
P4688-10	MC0VM0	3053	0.7655 -	SFAM01.1	PPB	11/21/2024 12:44 SMPL
CCV023	CCV023	19565	4.6444 -	SFAM01.1	PPB	11/21/2024 12:49 SMPL
CCB023	CCB023	-241	-0.0083 -	SFAM01.1	PPB	11/21/2024 12:49 SMPL 11/21/2024 12:51 SMPL
P4688-11	MC0VM0D	2797	0.7054 -	SFAM01.1	PPB	11/21/2024 12:56 SMPL
P4688-12	MC0VM0S	11525	2.7557 -	SFAM01.1	PPB	11/21/2024 12:30 SMPL 11/21/2024 13:03 SMPL
P4688-13	MC0VM1	1668	0.4402 -	SFAM01.1	PPB	11/21/2024 13:06 SMPL
P4688-14	MC0VM2	3619	0.8985 -	SFAM01.1	PPB	
P4688-15	MC0VM3	31692	7.4931 -			11/21/2024 13:08 SMPL
				SFAM01.1	PPB	11/21/2024 13:10 SMPL
P4688-16	MC0VM4	4917	1.2034 -	SFAM01.1	PPB	11/21/2024 13:12 SMPL
P4688-17	MC0VM5	1720	0.4524 -	SFAM01.1	PPB	11/21/2024 13:15 SMPL
CCV024	CCV024	19282	4.5779 -	SFAM01.1	PPB	11/21/2024 13:17 SMPL
CCB024	CCB024	-134	0.0169 -	SFAM01.1	PPB	11/21/2024 13:19 SMPL
						,,,;,,,, -





Prep Standard - Chemical Standard Summary

Order ID :	P4654
Test :	Mercury
Prepbatch ID :	PB165162,
Sequence ID/Qc Bat	
Standard ID: MP83208,MP83210,I 22,MP83323,MP8332	MP83312,MP83313,MP83315,MP83316,MP83317,MP83318,MP83319,MP83320,MP83321,MP833 26,MP83343,
Chamias ID.	
Chemical ID : M4371,M4916,M5062	2,M5882,M5884,M5953,M6120,M6121,W3112,





Fax: 908 789 8922

Metals STANDARD PREPARATION LOG

65 POTASSIUM PERMANGANATE SOLUTION 5 % 11/11/2024 05/11/2025 Mohan Bera METALS_SCA LE_3 (M SC-3) 11/11/2024 11/11/2024	<u>R</u>	ecipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
		65		MP83208	11/11/2024	05/11/2025				11/11/2024

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE	MP83210	11/11/2024	05/11/2025		METALS_SCA LE_3 (M SC-3)		11/11/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml



Metals STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83312	11/20/2024	11/21/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	
FROM	1 00000ml of M6120 ± 2 50000ml of	M5062 ± 06	50000ml of \	N2112 - Final	Ouantity: 100.0	00 ml	A)	

FROM	1.00000ml of M6120 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml
-------------	--

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sarabjit Jaswal
1340	Hg 0.00 PPB STD	MP83313	11/20/2024	11/21/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	•

FROM 2.50000ml of M6120 + 247.50000ml of W3112 = Final Quantity: 250.000 ml



Metals STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sarabjit Jaswal	
1341	Hg 0.2 PPB STD	MP83315	11/20/2024	11/21/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	•	
FDOM	A) 2 50000ml of M6120 ± 247 20000ml of W2112 ± 0 20000ml of MD92212 = Final Quantity: 250 000 ml								

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Sarabjit Jaswal
1342	Hg 2.5 PPB STD	MP83316	11/20/2024	11/21/2024	Mohan Bera		METALS_PIP	
							ETTE_5 (HG	11/20/2024

FROM 2.50000ml of M6120 + 245.0000ml of W3112 + 2.50000ml of MP83312 = Final Quantity: 250.000 ml



Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal	
1343	Hg 5.0 PPB STD	MP83317	11/20/2024	11/21/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG		
	A)								

FROM 2.50000ml of M6120 + 242.50000ml of W3112 + 5.00000ml of MP83312 = Final Quantity: 250.000 ml

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Sarabjit Jaswal
1344	Hg 7.5 PPB STD	MP83318	11/20/2024	11/21/2024	Mohan Bera		METALS_PIP	
							ETTE_5 (HG	11/20/2024

FROM 2.50000ml of M6120 + 240.00000ml of W3112 + 7.50000ml of MP83312 = Final Quantity: 250.000 ml



Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sarabjit Jaswal
1345	Hg 10.0 PPB STD	MP83319	11/20/2024	11/21/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	
EDOM	2 50000ml of M6120 ± 227 50000ml	of \M/3112 ±	10 00000ml c	of MD93312 =	Final Quantity: 1	250 000 ml	A)	

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sarabjit Jaswal
1346	Hg ICV SOLUTION	MP83320	11/20/2024	11/21/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	•

FROM 2.50000ml of M5953 + 2.50000ml of M6120 + 245.00000ml of W3112 = Final Quantity: 250.000 ml



Metals STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Sarabjit Jaswal
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83321	11/20/2024	11/21/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	
FROM	2.50000ml of M6120 + 247.50000ml	of W3112 =	Final Quantit	ty: 250.000 ml			A)	

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sarabjit Jaswal
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83322	11/20/2024	11/21/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	•

FROM 485.00000ml of W3112 + 5.00000ml of M6120 + 10.00000ml of MP83312 = Final Quantity: 500.000 ml



Metals STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83323	11/20/2024	11/21/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	
FDOM	405 00000ml of W2112 + 5 00000ml	of M6120 =	- Final Ouantit	h.: 500 000 ml			A)	

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
887	AQUA REGIA FOR HG ON 7471A	MP83326	11/20/2024	11/21/2024	Mohan Bera	None	None	11/20/2024

FROM 150.00000ml of M6121 + 50.00000ml of M6120 = Final Quantity: 200.000 ml



Metals STANDARD PREPARATION LOG

Recipe ID 68	NAME STANNOUS CHLORIDE SOLUTION	NO. MP83343	Prep Date 11/21/2024	Expiration Date 11/22/2024	Prepared By Mohan Bera	ScaleID METALS_SCA LE_3 (M SC-3)	Supervised By Sarabjit Jaswal 11/21/2024
FROM	450.00000ml of W3112 + 50.00000gi	ram of M588	32 + 50.00000	of M6121 =	Final Quantity	: 500.000 ml	



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCI 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous	232820	08/31/2028	04/30/2024 /	04/25/2024 / mohan	M5882
	Chloride (cs/4x500g)			mohan	Hiorian	
Supplier	Chloride (cs/4x500g) ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier Seidler Chemical		Lot # 0000281938	1 -	Date Opened /	Received Date /	
	ItemCode / ItemName BA-3624-05 / Sodium Chloride, Crystal		Date	Date Opened / Opened By	Received Date / Received By	Lot #

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CHEMICAL RECEIPT LOG BOOK

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)	2310662003	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6120

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	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121
	(cs/6x2.5L)					

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 / Iwona	W3112

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Certificate of Analysis

Quality System has be001:2015 by

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 - 0120633

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

Catalog Number	T142	Quality Test / Release Date	08/17/2023				
Lot Number	232820	***************************************					
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)						
Country of Origin	United States	Suggested Retest Date	Aug/2028				
Chemical Origin	Inorganic-non animal	·					
BSE/TSE Comment	No animal products are used processing aids, or any other	No animal products are used as starting raw material ingredients, or used in processing, including lubrica processing aids, or any other material that might migrate to the finished product.					

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Hydroxylamine Hydrochloride, Crystal BAKER ANALYZED® A.C.S. Reagent

Suitable for Mercury Determination (hydroxylammonium chloride)

Rec - 06.07.12





Material No.: 2196-01

Batch No.: 0000215387

Manufactured Date: 2018/06/27 Retest Date: 2025/06/25

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NH2OH·HCI) (by KMnO4 titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH4)	Passes Test	PT
Sulfur Compounds (as SO ₄)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities – Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin:

CN

Packaging Site:

Paris Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

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



M4913- 16



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

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

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306	N 100 100 100 100 100 100 100 100 100 10	
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager - Fair Lawn



Certificate of Analysis

300 Technology Drive Christiansburg, VA 24073 USA inorganicventures.com M5062 M5063

P: 800-669-6799/540-585-3030 F: 540-585-3012 info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code:

Single Analyte Mass Spec Solution

Catalog Number:

MSHG-10PPM

Lot Number:

S2-HG709270

Matrix:

10% (v/v) HCI

Value / Analyte(s):

10 μg/mL ea:

Mercury

Starting Material:

Hg metal

Starting Material Lot#:

1959

Starting Material Purity:

99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value:

 $10.001 \pm 0.053 \,\mu g/mL$

Density:

1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Ha	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, X_{CRM/RM}, where two or more methods of characterization are used is the weighted mean of the results:

 $X_{CRM/RM} = \Sigma(w_i) (X_i)$

 X_i = mean of Assay Method i with standard uncertainty u_{char} i

 $\mathbf{w_i}$ = the weighting factors for each method calculated using the inverse square of

the variance.

 $\mathbf{w_i} = (1/u_{chari})^2 / (\Sigma (1/(u_{chari})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

 $u_{char} = [\Sigma((w_i)^2 (u_{char})^2)]^{\frac{1}{2}}$ where u_{char} i are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

ults = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

X_{CRM/RM} = (X_a) (u_{char a})

X_a = mean of Assay Method A with

u_{char a} = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = U_{CRM/RM} = k (u²_{char a} + u²_{bb} + u²_{lts} + u²_{ts})^{3/2}

k = coverage factor = 2

uchar a = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

uts = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

 All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

```
0
  Ag
          0.000011 M Eu <
                            0.000201 O Na
                                              0.000004 M Se <
                                                                0.015915 O Zn <
                                                                                  0.001510
0
   Al
          0.000001 O Fe
                            0.000001 M Nb <
                                              0.000201 O Si
                                                                0.000005 M Zr <
                                                                                 0.000201
M
   As <
          0.000402 M Ga <
                            0.000201 M Nd <
                                              0.000201 M Sm <
                                                               0.000201
M
   Au <
          0.003631 M Gd <
                            0.000201 M Ni <
                                              0.000402 M
                                                        Sn <
                                                                0.001007
M
   B <
          0.001208 M
                    Ge <
                            0.000201 M Os <
                                              0.000605 M
                                                        Sr <
                                                                0.000201
M
  Ba <
          0.000201 M Hf <
                            0.000201 O P <
                                              0.032370 M
                                                        Ta <
                                                                0.000201
M
  Be <
          0.000201 s
                                   M Pb <
                    Hq <
                                              0.000201 M Tb <
                                                                0.000201
M
  Bi <
          0.000201 M
                            0.000201 M Pd <
                    Ho <
                                              0.000403 M
                                                        Te <
                                                                0.002216
0
   Ca
          0.000007 M In <
                            0.000201 M Pr <
                                              0.000201 M Th <
                                                               0.000201
M
   Cd <
          0.000201 M Ir
                            0.000201 M Pt <
                                              0.000402 M Ti <
                                                               0.000402
M
  Ce <
          0.000201 O K
                                      Rb <
                                              0.000201 O
                                                        TI <
                            0.000020 M
                                                               0.016508
M
  Co <
          0.000201 M La <
                            0.000201 M
                                      Re <
                                              0.000201 M
                                                        Tm <
                                                               0.000201
0
  Cr <
          0.003021 O Li <
                            0.000107 M Rh <
                                              0.000201 M U <
                                                               0.008058
M
  Cs <
          0.001208 M Lu <
                            0.000201 M Ru <
                                              0.000201 M
                                                        V
                                                               0.000201
  Cu <
M
          0.000402 O
                    Mg
                            0.000001 O
                                      S <
                                              0.053950 M W
                                                           <
                                                               0.000604
  Dy <
M
          0.000201 M Mn <
                            0.000604 M Sb <
                                              0.001208 M Y
                                                            <
                                                               0.000201
  Er <
          0.000201 M Mo
                            0.000009 M Sc <
                                              0.000201 M Yb <
                                                               0.000201
```

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° 24° C to minimize the effects of transpiration. Use at $20^{\circ} \pm 4^{\circ}$ C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+ **Chemical Compatibility -** Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 μg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 μg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 μg/mL	1	Ta, Co, Th ,Rh , Fe,
	(A.) To		U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026
- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

Sealed TCT	Bag	Open Date:		

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Mya Truong

Certificate Approved By:

Michael Booth Director, Quality Control Michael 2 Booth

Certifying Officer:

Paul Gaines Chairman / Senior Technical Director Paul R Laine

Sodium Chloride, Crystal BAKER ANALYZED® A.C.S. Reagent







Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

Retest Date: 2026-06-07

Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
lodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO ₃)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO ₄)	≤ 5 ppm	< 5 ppm
Sulfate (SO ₄)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory, Research, or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs Country of Origin: USA

Packaging Site: Paris Mfg Ctr & DC





QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: Inorganic ICV Solutions

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

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 the CLP SFAM01.0 SOW and revisions.

CAUTION:

Read instructions carefully before opening bottle(s) and proceeding with

the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions HAZARDOUS MATERIAL

> Safety Data Sheets Available Upon Request

M5973 3130123

(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 "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.

(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, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided

> QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY **APTIM Federal Services, LLC** 2700 Chandler Avenue - Building C Las Vegas, NV 89120

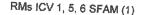
(C) ANALYSIS OF SAMPLES

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 µg/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).

ICV1-1014

For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric

Page 1 of 2







QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: Inorganic ICV Solutions

ICV1-1014

For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 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, use a 100-fold dilution by pipetting 1 mL of the ICV5 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) K₂Cr₂O₇ and 5% (v/v) nitric acid.

ICV6-0400

For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 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 K₃Fe(CN)₅, 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

- 1	ICV1-1014	
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L)
Al	2500	(after 50-fold dilution
Sb	1000	500
As	1000	200
Ba	520	200
Be	510	100
Cd	510	100
Ca	10000	100
Cr	520	2000
Co	520	100
Cu	510	100
Fe	10000	100
Pb	1000	2000
Mg	6000	200
Mn	520	1200
Ni	530	100
K	9900	110
Se	1000	2000
Ag	250	200
Na		50
TI	10000	2000
V		210
Zn	500	100
	1000	200

	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





M6120

R->10/13/24 Met dig

Material No.: 9606-03 Batch No.: 2310662003

Manufactured Date: 2023-08-21 Retest Date: 2028-08-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO3)	69.0 - 70.0 %	69.5 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	10
Residue after Ignition	≤ 2 ppm	< 2 ppm
Chloride (CI)	≤ 0.08 ppm	< 0.08 ppm
Phosphate (PO4)	≤ 0.10 ppm	< 0.10 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 40.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 20.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 50 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 50.0 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	30.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 20 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 20 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 40.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 20.0 ppb
Frace Impurities – Lithium (Li)	≤ 10.0 ppb	< 10.0 ppb
Frace Impurities – Magnesium (Mg)	≤ 20 ppb	< 20 ppb
race Impurities – Manganese (Mn)	≤ 10.0 ppb	< 10.0 ppb
race Impurities – Nickel (Ni)	≤ 20.0 ppb	< 20.0 ppb

>>> Continued on page 2 >>>





Material No.: 9606-03 Batch No.: 2310662003

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

Nitric Acid 69% CMOS





Material No.: 9606-03 Batch No.: 2310662003

Test

Specification

Result

For Microelectronic Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein Sr. Manager, Quality Assurate Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





R->10/13/24 Met dig

M 6121

Material No.: 9530-33 Batch No.: 0000275677 Manufactured Date: 2020/12/16 Retest Date: 2025/12/15

Revision No: 1

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
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
ACS - Free Chlorine (as Cl2)	<= 0.5 ppm	< 0.5
Phosphate (PO4)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Frace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Frace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Frace Impurities – Calcium (Ca)	<= 50.0 ppb	29.7
race Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
race Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
race Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
race Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

Material No.: 9530-33 Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 dqq 0.1 =>	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 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)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	dad	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Frace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Frace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Frace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
race Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
race Impurities – Thallium (TI)	<= 5.0 ppb	< 2.0
race Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
race Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
race Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
race Impurities – Zinc (Zn)	<= 5.0 ppb	0.3
race Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications

Country of Origin:

US

Packaging Site:

Phillipsburg Mfg Ctr & DC





Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133546

Review By	Sarabjit Jaswal	Review On	11/21/2024 10:21:17 PM
Supervise By	Mohan Bera	Supervise On	11/21/2024 10:27:33 PM
STD. NAME STD REF.#			
ICAL Standard	MP83313,MP83315,MI	P83316,MP83317,MP83318,MF	P83319
ICV Standard	MP83320		
CCV Standard	MP83322		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83321,MP83323,MI	P83343	

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/21/24 10:34		Mohan	ОК
2	S0.2	S01	CAL2	11/21/24 10:36		Mohan	ОК
3	S2.5	S02	CAL3	11/21/24 10:39		Mohan	ОК
4	S5	S03	CAL4	11/21/24 10:41		Mohan	ОК
5	S7.5	S04	CAL5	11/21/24 10:46		Mohan	ОК
6	S10	S05	CAL6	11/21/24 10:48		Mohan	ОК
7	ICV094	ICV094	ICV	11/21/24 10:59		Mohan	ОК
8	ICB094	ICB094	ICB	11/21/24 11:01		Mohan	ОК
9	CCV021	CCV021	CCV	11/21/24 11:03		Mohan	ОК
10	CCB021	CCB021	ССВ	11/21/24 11:05		Mohan	ОК
11	PB165162BL	PBS162	МВ	11/21/24 11:08		Mohan	ОК
12	P4654-01	MC0VG5	SAM	11/21/24 11:10		Mohan	ОК
13	P4654-02	MC0VH9	SAM	11/21/24 11:12		Mohan	ОК
14	P4654-03	MC0VJ3	SAM	11/21/24 11:15		Mohan	ОК
15	P4654-04	MC0VJ4	SAM	11/21/24 11:17		Mohan	ОК
16	P4654-05	MC0VJ5	SAM	11/21/24 11:19		Mohan	ОК
17	P4654-06	MC0VJ6	SAM	11/21/24 11:21		Mohan	ОК
18	P4654-07	MC0VJ7	SAM	11/21/24 11:24		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133546

Review By	Sarabjit Jaswal	Review On	11/21/2024 10:21:17 PM
Supervise By	Mohan Bera	Supervise On	11/21/2024 10:27:33 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83313,MP83315,I	MP83316,MP83317,MP83318,MI	P83319
ICV Standard	MP83320		
CCV Standard	MP83322		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83321,MP83323,I	MP83343	

19	P4654-08	MC0VJ8	SAM	11/21/24 11:26	Mohan	ОК
20	P4654-09	MC0VJ9	SAM	11/21/24 11:28	Mohan	ОК
21	P4654-10	MC0VK0	SAM	11/21/24 11:30	Mohan	ОК
22	P4654-11	MC0VK0D	DUP	11/21/24 11:33	Mohan	ОК
23	P4654-12	MC0VK0S	MS	11/21/24 11:37	Mohan	ок
24	P4654-13	MC0VK1	SAM	11/21/24 11:40	Mohan	ок
25	P4654-14	MC0VK2	SAM	11/21/24 11:42	Mohan	ок
26	P4654-15	MC0VK3	SAM	11/21/24 11:44	Mohan	ок
27	P4654-16	MC0VK4	SAM	11/21/24 11:47	Mohan	ок
28	P4654-17	MC0VK5	SAM	11/21/24 11:49	Mohan	ОК
29	P4654-18	MC0VK6	SAM	11/21/24 11:51	Mohan	ОК
30	P4654-19	MC0VK7	SAM	11/21/24 11:53	Mohan	ОК
31	CCV022	CCV022	CCV	11/21/24 11:56	Mohan	ОК
32	CCB022	CCB022	ССВ	11/21/24 11:58	Mohan	ОК
33	P4654-20	MC0VK8	SAM	11/21/24 12:00	Mohan	ОК
34	P4654-21	MC0VK9	SAM	11/21/24 12:03	Mohan	ОК
35	PB165163BL	PBS163	МВ	11/21/24 12:08	Mohan	ОК
36	P4656-01	MC0VH4	SAM	11/21/24 12:10	Mohan	ОК
37	P4656-02	MC0VJ0	SAM	11/21/24 12:12	Mohan	ОК
38	P4656-03	MC0VM0	SAM	11/21/24 12:14	Mohan	ОК



Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133546

Review By	Sarabjit Jaswal	Review On	11/21/2024 10:21:17 PM
Supervise By	Mohan Bera	Supervise On	11/21/2024 10:27:33 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83313,MP83315	,MP83316,MP83317,MP83318,MF	P83319
ICV Standard	MP83320		
CCV Standard	MP83322		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83321,MP83323	,MP83343	

39	P4656-04	MC0VM0D	DUP	11/21/24 12:17	Mohan	ОК
40	P4656-05	MC0VM0S	MS	11/21/24 12:19	Mohan	ОК
41	P4656-06	MC0VM6	SAM	11/21/24 12:21	Mohan	ОК
42	P4656-07	MC0VM7	SAM	11/21/24 12:24	Mohan	ок
43	P4688-01	MC0VL1	SAM	11/21/24 12:26	Mohan	ок
44	P4688-02	MC0VL2	SAM	11/21/24 12:28	Mohan	ок
45	P4688-03	MC0VL3	SAM	11/21/24 12:30	Mohan	ОК
46	P4688-04	MC0VL4	SAM	11/21/24 12:33	Mohan	ОК
47	P4688-05	MC0VL5	SAM	11/21/24 12:35	Mohan	ок
48	P4688-06	MC0VL6	SAM	11/21/24 12:37	Mohan	ОК
49	P4688-07	MC0VL7	SAM	11/21/24 12:39	Mohan	ОК
50	P4688-08	MC0VL8	SAM	11/21/24 12:42	Mohan	ОК
51	P4688-09	MC0VL9	SAM	11/21/24 12:44	Mohan	ОК
52	P4688-10	MC0VM0	SAM	11/21/24 12:46	Mohan	ОК
53	CCV023	CCV023	CCV	11/21/24 12:49	Mohan	ОК
54	CCB023	CCB023	ССВ	11/21/24 12:51	Mohan	ОК
55	P4688-11	MC0VM0D	DUP	11/21/24 12:56	Mohan	ОК
56	P4688-12	MC0VM0S	MS	11/21/24 13:03	Mohan	ОК
57	P4688-13	MC0VM1	SAM	11/21/24 13:06	Mohan	ОК
58	P4688-14	MC0VM2	SAM	11/21/24 13:08	Mohan	ОК



Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133546

Review By	Sarabjit Jaswal	Review On	11/21/2024 10:21:17 PM			
Supervise By	Mohan Bera	Supervise On	11/21/2024 10:27:33 PM			
STD. NAME STD REF.#						
ICAL Standard	MP83313,MP83315,M	MP83313,MP83315,MP83316,MP83317,MP83318,MP83319				
ICV Standard	MP83320					
CCV Standard	MP83322					
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard	MP83321,MP83323,M	MP83321,MP83323,MP83343				

59	P4688-15	MC0VM3	SAM	11/21/24 13:10	Mohan	ок
60	P4688-16	MC0VM4	SAM	11/21/24 13:12	Mohan	ок
61	P4688-17	MC0VM5	SAM	11/21/24 13:15	Mohan	ОК
62	CCV024	CCV024	CCV	11/21/24 13:17	Mohan	ОК
63	CCB024	CCB024	ССВ	11/21/24 13:19	Mohan	ОК



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

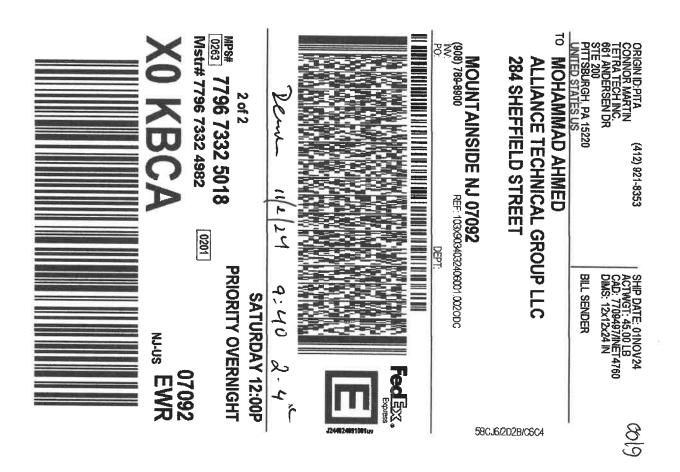
Warning: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:

1

At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the

Manifest is not required.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff, available upon request. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations, including limitations on our liability, can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including without limitation. Insect of profit loss to the intrinsic value of the package. Loss of sale interest income or attorney's fees. Recovery cannot exceed actual including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees. Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits, see current FedEx Service Guide.



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:

At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required.

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Login Summary Report

Order ID:	P4654	Order Date:	11/2/2024 9:40:00 AM	Project Mgr:	Deepak
Client:	USEPA CLP SMO	Project:	51810	Report Type:	USEPA CLP
Contact:	Anita Kapadia	Receive Date:	11/2/2024 9:40:00 AM	EDD Type:	EPA CLP
Date Sign Off:	10/31/2024 2:25:16 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P4654-07	MC0VJ7	Solid	10/31/2024						
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-08	MC0VJ8	Solid	10/31/2024						
				Mercury		SFAM_HG	15	11/25/2024	11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-09	MC0VJ9	Solid	10/31/2024						
				Mercury		SFAM_HG	15	11/25/2024	11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-10	MC0VK0	Solid	10/31/2024						
				Mercury		SFAM_HG	15	11/25/2024	11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-11	MC0VK0D	Solid	10/31/2024						
				Mercury		SFAM_HG	15	11/25/2024	11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-12	MC0VK0S	Solid	10/31/2024						
				Mercury		SFAM_HG	15	11/25/2024	11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-13	MC0VK1	Solid	10/30/2024						
				Mercury		SFAM_HG	15	11/25/2024	11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-14	MC0VK2	Solid	10/31/2024						
				Mercury		SFAM_HG	15	11/25/2024	11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-15	MC0VK3	Solid	10/31/2024						
				Mercury		SFAM_HG	15	11/25/2024	11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-16	MC0VK4	Solid	10/31/2024						
				Mercury		SFAM_HG	15		11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024	11/25/2024
P4654-17	MC0VK5	Solid	10/31/2024					67	

				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
P4654-18	MC0VK6	Solid	10/31/2024					
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
P4654-19	MC0VK7	Solid	10/31/2024					
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
P4654-20	MC0VK8	Solid	10/31/2024					
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
P4654-21	MC0VK9	Solid	10/31/2024		DUP			
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
P4654-07	MC0VJ7	Solid	10/31/2024					
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
P4654-06	MC0VJ6	Solid	10/31/2024	·				
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
P4654-05	MC0VJ5	Solid	10/31/2024					
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
P4654-04	MC0VJ4	Solid	10/31/2024	·				
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
P4654-03	MC0VJ3	Solid	10/31/2024					
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
P4654-02	MC0VH9	Solid	10/30/2024					
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024
P4654-01	MC0VG5	Solid	10/30/2024					
				Percent Solids		Chemtech -SOP	15	11/25/2024 11/25/2024
				Mercury		SFAM_HG	15	11/25/2024 11/25/2024