Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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

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LAB CHRONICLE

OrderID:	P4548	**OrderDate:**	10/24/2024 3:18:00 PM
Client:	Lockwood, Kessler & Bartlett, Inc.	**Project:**	Ansonia Landfill 2024
Contact:	John Gerlach	**Location:**	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4548-01	**MW-1**	**Water**			**10/23/24**			**10/24/24**
			Metals Group4	6010D		10/26/24	10/29/24	
P4548-02	**MW-1**	**Water**			**10/23/24**			**10/24/24**
			Dissolved Metals Group5	6010D		10/26/24	10/29/24	
P4548-03	**MW-2**	**Water**			**10/23/24**			**10/24/24**
			Metals Group4	6010D		10/26/24	10/29/24	
P4548-04	**MW-2**	**Water**			**10/23/24**			**10/24/24**
			Dissolved Metals Group5	6010D		10/26/24	10/29/24	
P4548-05	**MW-3**	**Water**			**10/23/24**			**10/24/24**
			Metals Group4	6010D		10/26/24	10/29/24	
P4548-06	**MW-3**	**Water**			**10/23/24**			**10/24/24**
			Dissolved Metals Group5	6010D		10/26/24	10/29/24	
P4548-07	**MW-4**	**Water**			**10/23/24**			**10/24/24**
			Metals Group4	6010D		10/26/24	10/29/24	
P4548-08	**MW-4**	**Water**			**10/23/24**			**10/24/24**
			Dissolved Metals Group5	6010D		10/26/24	10/29/24	

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Hit Summary Sheet
SW-846

SDG No.: P4548 **Order ID:** P4548

Client: Lockwood, Kessler & Bartlett, Inc. **Project ID:** Ansonia Landfill 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-1								
P4548-01	MW-1	Water	Barium	62.5		6.28	50.0	ug/L
P4548-01	MW-1	Water	Cadmium	2.09	J	0.094	3.00	ug/L
P4548-01	MW-1	Water	Chromium	1.48	J	0.66	5.00	ug/L
P4548-01	MW-1	Water	Nickel	6.80	J	0.85	20.0	ug/L
P4548-01	MW-1	Water	Potassium	5230		685	1000	ug/L
P4548-01	MW-1	Water	Sodium	53100		237	1000	ug/L
P4548-01	MW-1	Water	Zinc	254		1.75	20.0	ug/L
Client ID : MW-1								
P4548-02	MW-1	Water	Iron	207		18.5	50.0	ug/L
P4548-02	MW-1	Water	Manganese	89.9		1.46	10.0	ug/L
Client ID : MW-2								
P4548-03	MW-2	Water	Barium	163		6.28	50.0	ug/L
P4548-03	MW-2	Water	Cadmium	0.94	J	0.094	3.00	ug/L
P4548-03	MW-2	Water	Chromium	4.47	J	0.66	5.00	ug/L
P4548-03	MW-2	Water	Cobalt	1.38	J	0.50	15.0	ug/L
P4548-03	MW-2	Water	Nickel	21.5		0.85	20.0	ug/L
P4548-03	MW-2	Water	Potassium	29300		685	1000	ug/L
P4548-03	MW-2	Water	Silver	1.14	J	0.58	5.00	ug/L
P4548-03	MW-2	Water	Sodium	292000		237	1000	ug/L
P4548-03	MW-2	Water	Zinc	59.4		1.75	20.0	ug/L
Client ID : MW-2								
P4548-04	MW-2	Water	Iron	13700		18.5	50.0	ug/L
P4548-04	MW-2	Water	Manganese	1220		1.46	10.0	ug/L
Client ID : MW-3								
P4548-05	MW-3	Water	Barium	140		6.28	50.0	ug/L
P4548-05	MW-3	Water	Cadmium	0.49	J	0.094	3.00	ug/L
P4548-05	MW-3	Water	Chromium	5.02		0.66	5.00	ug/L
P4548-05	MW-3	Water	Cobalt	1.26	J	0.50	15.0	ug/L
P4548-05	MW-3	Water	Nickel	5.61	J	0.85	20.0	ug/L
P4548-05	MW-3	Water	Potassium	22000		685	1000	ug/L
P4548-05	MW-3	Water	Sodium	175000		237	1000	ug/L
P4548-05	MW-3	Water	Zinc	20.8		1.75	20.0	ug/L
Client ID : MW-3								
P4548-06	MW-3	Water	Iron	3060		18.5	50.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P4548 **Order ID:** P4548

Client: Lockwood, Kessler & Bartlett, Inc. **Project ID:** Ansonia Landfill 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4548-06	MW-3	Water	Manganese	513		1.46	10.0	ug/L
Client ID :	**MW-4**							
P4548-07	MW-4	Water	Barium	142		6.28	50.0	ug/L
P4548-07	MW-4	Water	Cadmium	0.54	J	0.094	3.00	ug/L
P4548-07	MW-4	Water	Chromium	8.40		0.66	5.00	ug/L
P4548-07	MW-4	Water	Cobalt	1.42	J	0.50	15.0	ug/L
P4548-07	MW-4	Water	Nickel	7.38	J	0.85	20.0	ug/L
P4548-07	MW-4	Water	Potassium	22900		685	1000	ug/L
P4548-07	MW-4	Water	Sodium	181000		237	1000	ug/L
P4548-07	MW-4	Water	Zinc	21.4		1.75	20.0	ug/L
Client ID :	**MW-4**							
P4548-08	MW-4	Water	Iron	2550		18.5	50.0	ug/L
P4548-08	MW-4	Water	Manganese	432		1.46	10.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-39-3	Barium	62.5		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-43-9	Cadmium	2.09	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-47-3	Chromium	1.48	J	1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-02-0	Nickel	6.80	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-09-7	Potassium	5230		1	685	1000	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-23-5	Sodium	53100		1	237	1000	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-66-6	Zinc	254	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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

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

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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	207		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 16:27	SW6010	SW3010
7439-96-5	Manganese	89.9		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 16:27	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Dissolved Metals Group5				

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

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.
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-39-3	Barium	163		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-43-9	Cadmium	0.94	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-47-3	Chromium	4.47	J	1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-48-4	Cobalt	1.38	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-02-0	Nickel	21.5		1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-09-7	Potassium	29300		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-22-4	Silver	1.14	JN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-23-5	Sodium	292000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-66-6	Zinc	59.4	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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

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

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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	13700		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 16:35	SW6010	SW3010
7439-96-5	Manganese	1220		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 16:35	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Dissolved Metals Group5				

U = Not Detected
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-39-3	Barium	140		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-43-9	Cadmium	0.49	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-47-3	Chromium	5.02		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-48-4	Cobalt	1.26	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-02-0	Nickel	5.61	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-09-7	Potassium	22000		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-23-5	Sodium	175000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-66-6	Zinc	20.8	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
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J = Estimated Value
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	3060		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 16:44	SW6010	SW3010
7439-96-5	Manganese	513		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 16:44	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Dissolved Metals Group5				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-39-3	Barium	142		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-43-9	Cadmium	0.54	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-47-3	Chromium	8.40		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-48-4	Cobalt	1.42	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-02-0	Nickel	7.38	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-09-7	Potassium	22900		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-23-5	Sodium	181000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-66-6	Zinc	21.4	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	2550		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 17:05	SW6010	SW3010
7439-96-5	Manganese	432		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 17:05	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Dissolved Metals Group5				

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

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

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Antimony	982	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Arsenic	950	1000	95	90 - 110	P	10/29/2024	11:59	LB133198
	Barium	474	520	91	90 - 110	P	10/29/2024	11:59	LB133198
	Beryllium	470	510	92	90 - 110	P	10/29/2024	11:59	LB133198
	Cadmium	478	510	94	90 - 110	P	10/29/2024	11:59	LB133198
	Chromium	533	520	102	90 - 110	P	10/29/2024	11:59	LB133198
	Cobalt	511	520	98	90 - 110	P	10/29/2024	11:59	LB133198
	Copper	525	510	103	90 - 110	P	10/29/2024	11:59	LB133198
	Iron	10300	10000	102	90 - 110	P	10/29/2024	11:59	LB133198
	Lead	958	1000	96	90 - 110	P	10/29/2024	11:59	LB133198
	Manganese	478	520	92	90 - 110	P	10/29/2024	11:59	LB133198
	Nickel	514	530	97	90 - 110	P	10/29/2024	11:59	LB133198
	Potassium	10200	9900	103	90 - 110	P	10/29/2024	11:59	LB133198
	Selenium	979	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Silver	260	250	104	90 - 110	P	10/29/2024	11:59	LB133198
	Sodium	9770	10000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Thallium	1000	1000	100	90 - 110	P	10/29/2024	11:59	LB133198
	Vanadium	461	500	92	90 - 110	P	10/29/2024	11:59	LB133198
	Zinc	1040	1000	104	90 - 110	P	10/29/2024	11:59	LB133198

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Antimony	50.1	50.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Arsenic	19.0	20.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Barium	94.2	100	94	80 - 120	P	10/29/2024	12:31	LB133198
	Beryllium	5.69	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Cadmium	5.68	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Chromium	10.2	10.0	102	80 - 120	P	10/29/2024	12:31	LB133198
	Cobalt	30.2	30.0	101	80 - 120	P	10/29/2024	12:31	LB133198
	Copper	21.7	20.0	108	80 - 120	P	10/29/2024	12:31	LB133198
	Iron	105	100	105	80 - 120	P	10/29/2024	12:31	LB133198
	Lead	9.73	12.0	81	80 - 120	P	10/29/2024	12:31	LB133198
	Manganese	19.6	20.0	98	80 - 120	P	10/29/2024	12:31	LB133198
	Nickel	40.0	40.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Potassium	1890	2000	95	80 - 120	P	10/29/2024	12:31	LB133198
	Selenium	20.1	20.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Silver	11.2	10.0	112	80 - 120	P	10/29/2024	12:31	LB133198
	Sodium	1800	2000	90	80 - 120	P	10/29/2024	12:31	LB133198
	Thallium	36.2	40.0	91	80 - 120	P	10/29/2024	12:31	LB133198
	Vanadium	37.8	40.0	94	80 - 120	P	10/29/2024	12:31	LB133198
	Zinc	38.9	40.0	97	80 - 120	P	10/29/2024	12:31	LB133198

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Antimony	4940	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Arsenic	4910	5000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Barium	9460	10000	95	90 - 110	P	10/29/2024	13:01	LB133198
	Beryllium	238	250	95	90 - 110	P	10/29/2024	13:01	LB133198
	Cadmium	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Chromium	994	1000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Cobalt	2440	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Copper	1250	1250	100	90 - 110	P	10/29/2024	13:01	LB133198
	Iron	4810	5000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Lead	4870	5000	97	90 - 110	P	10/29/2024	13:01	LB133198
	Manganese	2320	2500	93	90 - 110	P	10/29/2024	13:01	LB133198
	Nickel	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Potassium	24500	25000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Selenium	4950	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	13:01	LB133198
	Sodium	24100	25000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Thallium	4690	5000	94	90 - 110	P	10/29/2024	13:01	LB133198
	Vanadium	2390	2500	96	90 - 110	P	10/29/2024	13:01	LB133198
	Zinc	2510	2500	100	90 - 110	P	10/29/2024	13:01	LB133198
CCV02	Antimony	4810	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Arsenic	4780	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Barium	9090	10000	91	90 - 110	P	10/29/2024	14:04	LB133198
	Beryllium	241	250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Cadmium	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Chromium	946	1000	95	90 - 110	P	10/29/2024	14:04	LB133198
	Cobalt	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Copper	1200	1250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Iron	4590	5000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Lead	4670	5000	93	90 - 110	P	10/29/2024	14:04	LB133198
	Manganese	2560	2500	103	90 - 110	P	10/29/2024	14:04	LB133198
	Nickel	2340	2500	94	90 - 110	P	10/29/2024	14:04	LB133198
	Potassium	23600	25000	94	90 - 110	P	10/29/2024	14:04	LB133198
	Selenium	4870	5000	97	90 - 110	P	10/29/2024	14:04	LB133198
	Silver	1170	1250	94	90 - 110	P	10/29/2024	14:04	LB133198

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Sodium	23000	25000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Thallium	5060	5000	101	90 - 110	P	10/29/2024	14:04	LB133198
	Vanadium	2260	2500	90	90 - 110	P	10/29/2024	14:04	LB133198
	Zinc	2390	2500	96	90 - 110	P	10/29/2024	14:04	LB133198
CCV03	Antimony	5010	5000	100	90 - 110	P	10/29/2024	15:02	LB133198
	Arsenic	5490	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Barium	10400	10000	104	90 - 110	P	10/29/2024	15:02	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	15:02	LB133198
	Cadmium	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:02	LB133198
	Cobalt	2520	2500	101	90 - 110	P	10/29/2024	15:02	LB133198
	Copper	1130	1250	90	90 - 110	P	10/29/2024	15:02	LB133198
	Iron	5480	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Lead	4700	5000	94	90 - 110	P	10/29/2024	15:02	LB133198
	Manganese	2450	2500	98	90 - 110	P	10/29/2024	15:02	LB133198
	Nickel	2580	2500	103	90 - 110	P	10/29/2024	15:02	LB133198
	Potassium	26900	25000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Selenium	4530	5000	91	90 - 110	P	10/29/2024	15:02	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	15:02	LB133198
	Sodium	23300	25000	93	90 - 110	P	10/29/2024	15:02	LB133198
	Thallium	5410	5000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Vanadium	2650	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Zinc	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
CCV04	Antimony	4760	5000	95	90 - 110	P	10/29/2024	15:59	LB133198
	Arsenic	5440	5000	109	90 - 110	P	10/29/2024	15:59	LB133198
	Barium	10300	10000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Beryllium	225	250	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cadmium	2640	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cobalt	2480	2500	99	90 - 110	P	10/29/2024	15:59	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	15:59	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	15:59	LB133198
	Lead	4620	5000	92	90 - 110	P	10/29/2024	15:59	LB133198
	Manganese	2490	2500	100	90 - 110	P	10/29/2024	15:59	LB133198

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Nickel	2540	2500	102	90 - 110	P	10/29/2024	15:59	LB133198
	Potassium	25700	25000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Selenium	4680	5000	94	90 - 110	P	10/29/2024	15:59	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	15:59	LB133198
	Sodium	22600	25000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Thallium	4990	5000	100	90 - 110	P	10/29/2024	15:59	LB133198
	Vanadium	2660	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Zinc	2610	2500	104	90 - 110	P	10/29/2024	15:59	LB133198
CCV05	Antimony	4760	5000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Arsenic	5450	5000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Beryllium	231	250	92	90 - 110	P	10/29/2024	16:53	LB133198
	Cadmium	2630	2500	105	90 - 110	P	10/29/2024	16:53	LB133198
	Chromium	928	1000	93	90 - 110	P	10/29/2024	16:53	LB133198
	Cobalt	2470	2500	99	90 - 110	P	10/29/2024	16:53	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	16:53	LB133198
	Iron	5380	5000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Lead	4590	5000	92	90 - 110	P	10/29/2024	16:53	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Nickel	2530	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Potassium	27200	25000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Selenium	4690	5000	94	90 - 110	P	10/29/2024	16:53	LB133198
	Silver	1140	1250	91	90 - 110	P	10/29/2024	16:53	LB133198
	Sodium	23800	25000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Thallium	5020	5000	100	90 - 110	P	10/29/2024	16:53	LB133198
	Vanadium	2710	2500	109	90 - 110	P	10/29/2024	16:53	LB133198
	Zinc	2280	2500	91	90 - 110	P	10/29/2024	16:53	LB133198
CCV06	Antimony	4670	5000	93	90 - 110	P	10/29/2024	17:53	LB133198
	Arsenic	5370	5000	107	90 - 110	P	10/29/2024	17:53	LB133198
	Barium	10600	10000	106	90 - 110	P	10/29/2024	17:53	LB133198
	Beryllium	245	250	98	90 - 110	P	10/29/2024	17:53	LB133198
	Cadmium	2600	2500	104	90 - 110	P	10/29/2024	17:53	LB133198
	Chromium	915	1000	92	90 - 110	P	10/29/2024	17:53	LB133198
	Cobalt	2430	2500	97	90 - 110	P	10/29/2024	17:53	LB133198

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Copper	1200	1250	96	90 - 110	P	10/29/2024	17:53	LB133198
	Iron	5130	5000	103	90 - 110	P	10/29/2024	17:53	LB133198
	Lead	4570	5000	91	90 - 110	P	10/29/2024	17:53	LB133198
	Manganese	2400	2500	96	90 - 110	P	10/29/2024	17:53	LB133198
	Nickel	2490	2500	100	90 - 110	P	10/29/2024	17:53	LB133198
	Potassium	24700	25000	99	90 - 110	P	10/29/2024	17:53	LB133198
	Selenium	4700	5000	94	90 - 110	P	10/29/2024	17:53	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	17:53	LB133198
	Sodium	24000	25000	96	90 - 110	P	10/29/2024	17:53	LB133198
	Thallium	5450	5000	109	90 - 110	P	10/29/2024	17:53	LB133198
	Vanadium	2570	2500	103	90 - 110	P	10/29/2024	17:53	LB133198
	Zinc	2670	2500	107	90 - 110	P	10/29/2024	17:53	LB133198
CCV07	Antimony	4930	5000	99	90 - 110	P	10/29/2024	18:20	LB133198
	Arsenic	5470	5000	109	90 - 110	P	10/29/2024	18:20	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	18:20	LB133198
	Cadmium	2320	2500	93	90 - 110	P	10/29/2024	18:20	LB133198
	Chromium	933	1000	93	90 - 110	P	10/29/2024	18:20	LB133198
	Cobalt	2280	2500	91	90 - 110	P	10/29/2024	18:20	LB133198
	Copper	1270	1250	102	90 - 110	P	10/29/2024	18:20	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Lead	4600	5000	92	90 - 110	P	10/29/2024	18:20	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	18:20	LB133198
	Nickel	2290	2500	92	90 - 110	P	10/29/2024	18:20	LB133198
	Potassium	26200	25000	105	90 - 110	P	10/29/2024	18:20	LB133198
	Selenium	5390	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Silver	1130	1250	91	90 - 110	P	10/29/2024	18:20	LB133198
	Sodium	22500	25000	90	90 - 110	P	10/29/2024	18:20	LB133198
	Thallium	4880	5000	98	90 - 110	P	10/29/2024	18:20	LB133198
	Vanadium	2690	2500	108	90 - 110	P	10/29/2024	18:20	LB133198
	Zinc	2260	2500	90	90 - 110	P	10/29/2024	18:20	LB133198

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Antimony	47.7	50.0	95	40 - 160	P	10/29/2024	12:40	LB133198
	Arsenic	18.4	20.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Barium	90.0	100	90	40 - 160	P	10/29/2024	12:40	LB133198
	Beryllium	5.49	6.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Cadmium	5.32	6.0	89	40 - 160	P	10/29/2024	12:40	LB133198
	Chromium	10.2	10.0	102	40 - 160	P	10/29/2024	12:40	LB133198
	Cobalt	28.2	30.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Copper	20.6	20.0	103	40 - 160	P	10/29/2024	12:40	LB133198
	Iron	102	100	102	40 - 160	P	10/29/2024	12:40	LB133198
	Lead	9.96	12.0	83	40 - 160	P	10/29/2024	12:40	LB133198
	Manganese	18.9	20.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Nickel	37.3	40.0	93	40 - 160	P	10/29/2024	12:40	LB133198
	Potassium	1920	2000	96	40 - 160	P	10/29/2024	12:40	LB133198
	Selenium	19.2	20.0	96	40 - 160	P	10/29/2024	12:40	LB133198
	Silver	10.6	10.0	106	40 - 160	P	10/29/2024	12:40	LB133198
	Sodium	1780	2000	89	40 - 160	P	10/29/2024	12:40	LB133198
	Thallium	37.7	40.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Vanadium	36.0	40.0	90	40 - 160	P	10/29/2024	12:40	LB133198
	Zinc	38.5	40.0	96	40 - 160	P	10/29/2024	12:40	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	12:35	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	12:35	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	12:35	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	13:06	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	13:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	13:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
CCB02	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	14:15	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	14:15	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	14:15	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
CCB03	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	15:06	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	15:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	15:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
CCB04	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:03	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:03	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:03	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
CCB05	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:57	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB05	Barium	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:57	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:57	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
CCB06	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	17:58	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	17:58	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	17:58	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Sodium	561	+/-2000	J	2000	P	10/29/2024	17:58	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
CCB07	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	18:24	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	18:24	LB133198

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	18:24	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	18:24	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198

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PREPARATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164438BL		**WATER**		**Batch Number:**	**PB164438**		**Prep Date:**	**10/26/2024**	
	Antimony	25.0	<25.0	U	25.0	P	10/29/2024	18:07	LB133198
	Arsenic	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Barium	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Beryllium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Cadmium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Chromium	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
	Cobalt	15.0	<15.0	U	15.0	P	10/29/2024	18:07	LB133198
	Copper	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Iron	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Lead	6.00	<6.00	U	6.00	P	10/29/2024	18:07	LB133198
	Manganese	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Nickel	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Potassium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
	Selenium	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Silver	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
	Sodium	386	<1000	J	1000	P	10/29/2024	18:07	LB133198
	Thallium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Vanadium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Zinc	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198

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INTERFERENCE CHECK SAMPLE

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	-1.89			-50	50	10/29/2024	12:44	LB133198
	Arsenic	1.13			-20	20	10/29/2024	12:44	LB133198
	Barium	1.47	6.0	24	-94	106	10/29/2024	12:44	LB133198
	Beryllium	1.17			-6	6	10/29/2024	12:44	LB133198
	Cadmium	6.66	1.0	666	-5	7	10/29/2024	12:44	LB133198
	Chromium	57.6	52.0	111	42	62	10/29/2024	12:44	LB133198
	Cobalt	2.06			-30	30	10/29/2024	12:44	LB133198
	Copper	-5.53	2.0	276	-18	22	10/29/2024	12:44	LB133198
	Iron	102000	101000	101	85600	116500	10/29/2024	12:44	LB133198
	Lead	7.65			-12	12	10/29/2024	12:44	LB133198
	Manganese	5.46	7.0	78	-13	27	10/29/2024	12:44	LB133198
	Nickel	2.53	2.0	126	-38	42	10/29/2024	12:44	LB133198
	Potassium	-70.7			0	0	10/29/2024	12:44	LB133198
	Selenium	-10.9			-20	20	10/29/2024	12:44	LB133198
	Silver	3.62			-10	10	10/29/2024	12:44	LB133198
	Sodium	-37.1			0	0	10/29/2024	12:44	LB133198
	Thallium	5.74			-40	40	10/29/2024	12:44	LB133198
	Vanadium	4.51			-40	40	10/29/2024	12:44	LB133198
	Zinc	-0.39			-40	40	10/29/2024	12:44	LB133198
ICSAB01	Antimony	618	618	100	525	711	10/29/2024	12:48	LB133198
	Arsenic	108	104	104	88.4	120	10/29/2024	12:48	LB133198
	Barium	470	537	88	437	637	10/29/2024	12:48	LB133198
	Beryllium	469	495	95	420	570	10/29/2024	12:48	LB133198
	Cadmium	970	972	100	826	1120	10/29/2024	12:48	LB133198
	Chromium	573	542	106	460	624	10/29/2024	12:48	LB133198
	Cobalt	516	476	108	404	548	10/29/2024	12:48	LB133198
	Copper	496	511	97	434	588	10/29/2024	12:48	LB133198
	Iron	100000	99300	101	84400	114500	10/29/2024	12:48	LB133198
	Lead	54.7	49.0	112	37	61	10/29/2024	12:48	LB133198
	Manganese	459	507	90	430	584	10/29/2024	12:48	LB133198
	Nickel	1020	954	107	810	1100	10/29/2024	12:48	LB133198
	Potassium	-63.3			0	0	10/29/2024	12:48	LB133198
	Selenium	38.3	46.0	83	26	66	10/29/2024	12:48	LB133198
	Silver	207	201	103	170	232	10/29/2024	12:48	LB133198
	Sodium	-27.2			0	0	10/29/2024	12:48	LB133198
	Thallium	98.7	108	91	68	148	10/29/2024	12:48	LB133198
	Vanadium	459	491	94	417	565	10/29/2024	12:48	LB133198
	Zinc	1090	952	114	809	1095	10/29/2024	12:48	LB133198

METAL
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metals
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MATRIX SPIKE SUMMARY

client: Lockwood, Kessler & Bartlett, Inc. **level:** low **sdg no.:** P4548

contract: LOCK01 **lab code:** CHEM **case no.:** P4548 **sas no.:** P4548

matrix: Water **sample id:** P4548-01 **client id:** MW-1MS

Percent Solids for Sample: NA **Spiked ID:** P4548-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	355		25.0	U	400	89		P
Arsenic	ug/L	75 - 125	391		10.0	U	400	98		P
Barium	ug/L	75 - 125	158		62.5		100	95		P
Beryllium	ug/L	75 - 125	80.7		3.00	U	100	81		P
Cadmium	ug/L	75 - 125	92.7		2.09	J	100	91		P
Chromium	ug/L	75 - 125	177		1.48	J	200	88		P
Cobalt	ug/L	75 - 125	93.1		15.0	U	100	93		P
Copper	ug/L	75 - 125	138		10.0	U	150	92		P
Iron	ug/L	75 - 125	1590		42.8	J	1500	103		P
Lead	ug/L	75 - 125	388		6.00	U	500	78		P
Manganese	ug/L	75 - 125	179		86.6		100	93		P
Nickel	ug/L	75 - 125	243		6.80	J	250	95		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	804		10.0	U	1000	80		P
Silver	ug/L	75 - 125	22.5		5.00	U	37.5	60	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	862		20.0	U	1000	86		P
Vanadium	ug/L	75 - 125	150		20.0	U	150	100		P
Zinc	ug/L	75 - 125	298		254		100	43	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Lockwood, Kessler & Bartlett, Inc. **level:** low **sdg no.:** P4548

contract: LOCK01 **lab code:** CHEM **case no.:** P4548 **sas no.:** P4548

matrix: Water **sample id:** P4548-01 **client id:** MW-1MSD

Percent Solids for Sample: NA **Spiked ID:** P4548-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	367		25.0	U	400	92		P
Arsenic	ug/L	75 - 125	401		10.0	U	400	100		P
Barium	ug/L	75 - 125	161		62.5		100	99		P
Beryllium	ug/L	75 - 125	83.1		3.00	U	100	83		P
Cadmium	ug/L	75 - 125	95.0		2.09	J	100	93		P
Chromium	ug/L	75 - 125	181		1.48	J	200	90		P
Cobalt	ug/L	75 - 125	95.5		15.0	U	100	96		P
Copper	ug/L	75 - 125	141		10.0	U	150	94		P
Iron	ug/L	75 - 125	1580		42.8	J	1500	103		P
Lead	ug/L	75 - 125	398		6.00	U	500	80		P
Manganese	ug/L	75 - 125	184		86.6		100	98		P
Nickel	ug/L	75 - 125	249		6.80	J	250	97		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	826		10.0	U	1000	83		P
Silver	ug/L	75 - 125	22.8		5.00	U	37.5	61	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	831		20.0	U	1000	83		P
Vanadium	ug/L	75 - 125	153		20.0	U	150	102		P
Zinc	ug/L	75 - 125	303		254		100	49	N	P

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POST DIGEST SPIKE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Matrix: Water **Level:** LOW **Client ID:** MW-1A

Sample ID: P4548-01 **Spiked ID:** P4548-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	75 - 125	22.7		5.00	U	37.5	60		P
Zinc	ug/L	75 - 125	301		254		100	47		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **Level:** LOW **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Matrix: Water **Sample ID:** P4548-01 **Client ID:** MW-1DUP

Percent Solids for Sample: NA **Duplicate ID** P4548-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	62.5		65.6		5		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	2.09	J	2.18	J	4		P
Chromium	ug/L	20	1.48	J	1.64	J	10		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	42.8	J	42.0	J	2		P
Lead	ug/L	20	6.00	U	6.00	U			P
Manganese	ug/L	20	86.6		91.1		5		P
Nickel	ug/L	20	6.80	J	7.17	J	5		P
Potassium	ug/L	20	5230		5290		1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	53100		54500		3		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	254		262		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **Level:** LOW **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Matrix: Water **Sample ID:** P4548-01MS **Client ID:** MW-1MSD

Percent Solids for Sample: NA **Duplicate ID** P4548-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	355		367		3		P
Arsenic	ug/L	20	391		401		3		P
Barium	ug/L	20	158		161		2		P
Beryllium	ug/L	20	80.7		83.1		3		P
Cadmium	ug/L	20	92.7		95.0		2		P
Chromium	ug/L	20	177		181		2		P
Cobalt	ug/L	20	93.1		95.5		3		P
Copper	ug/L	20	138		141		2		P
Iron	ug/L	20	1590		1580		1		P
Lead	ug/L	20	388		398		3		P
Manganese	ug/L	20	179		184		3		P
Nickel	ug/L	20	243		249		2		P
Potassium	ug/L	20	10200		10200		0		P
Selenium	ug/L	20	804		826		3		P
Silver	ug/L	20	22.5		22.8		1		P
Sodium	ug/L	20	54400		54400		0		P
Thallium	ug/L	20	862		831		4		P
Vanadium	ug/L	20	150		153		2		P
Zinc	ug/L	20	298		303		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164438BS							
Antimony	ug/L	400	375		94	80 - 120	P
Arsenic	ug/L	400	397		99	80 - 120	P
Barium	ug/L	100	99.2		99	80 - 120	P
Beryllium	ug/L	100	92.9		93	80 - 120	P
Cadmium	ug/L	100	84.8		85	80 - 120	P
Chromium	ug/L	200	188		94	80 - 120	P
Cobalt	ug/L	100	89.4		89	80 - 120	P
Copper	ug/L	150	155		103	80 - 120	P
Iron	ug/L	1500	1580		105	80 - 120	P
Lead	ug/L	500	426		85	80 - 120	P
Manganese	ug/L	100	101		101	80 - 120	P
Nickel	ug/L	250	225		90	80 - 120	P
Potassium	ug/L	5000	5090		102	80 - 120	P
Selenium	ug/L	1000	979		98	80 - 120	P
Silver	ug/L	37.5	33.9		90	80 - 120	P
Sodium	ug/L	1500	1380		92	80 - 120	P
Thallium	ug/L	1000	903		90	80 - 120	P
Vanadium	ug/L	150	157		105	80 - 120	P
Zinc	ug/L	100	89.1		89	80 - 120	P

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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-1L

Lab Name: Chemtech Consulting Group **Contract:** LOCK01

Lab Code: CHEM **Lb No.:** lb133198 **Lab Sample ID :** P4548-01L **SDG No.:** P4548

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	62.5		49.2	J	21		P
Beryllium	3.00	U	15.0	U			P
Cadmium	2.09	J	2.11	J	1		P
Chromium	1.48	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	42.8	J	250	U	100.0		P
Lead	6.00	U	30.0	U			P
Manganese	86.6		92.5		7		P
Nickel	6.80	J	7.42	J	9		P
Potassium	5230		5590		7		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	53100		50900		4		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	254		204		20		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Fax : 908 789 8922

Metals
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SAMPLE PREPARATION SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Method:**

Case No.: P4548 **SAS No.:** P4548

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164438**						
P4548-01	MW-1	SAM	WATER	10/26/2024	50.0	25.0	
P4548-01DUP	MW-1DUP	DUP	WATER	10/26/2024	50.0	25.0	
P4548-01MS	MW-1MS	MS	WATER	10/26/2024	50.0	25.0	
P4548-01MSD	MW-1MSD	MSD	WATER	10/26/2024	50.0	25.0	
P4548-02	MW-1	SAM	WATER	10/26/2024	50.0	25.0	
P4548-03	MW-2	SAM	WATER	10/26/2024	50.0	25.0	
P4548-04	MW-2	SAM	WATER	10/26/2024	50.0	25.0	
P4548-05	MW-3	SAM	WATER	10/26/2024	50.0	25.0	
P4548-06	MW-3	SAM	WATER	10/26/2024	50.0	25.0	
P4548-07	MW-4	SAM	WATER	10/26/2024	50.0	25.0	
P4548-08	MW-4	SAM	WATER	10/26/2024	50.0	25.0	
PB164438BL	PB164438BL	MB	WATER	10/26/2024	50.0	25.0	
PB164438BS	PB164438BS	LCS	WATER	10/26/2024	50.0	25.0	

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metals
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ANALYSIS RUN LOG

Client: Lockwood, Kessler & Bartlett, Inc. **Contract:** LOCK01

Lab code: CHEM **Case no.:** P4548 **Sas no.:** P4548 **Sdg no.:** P4548

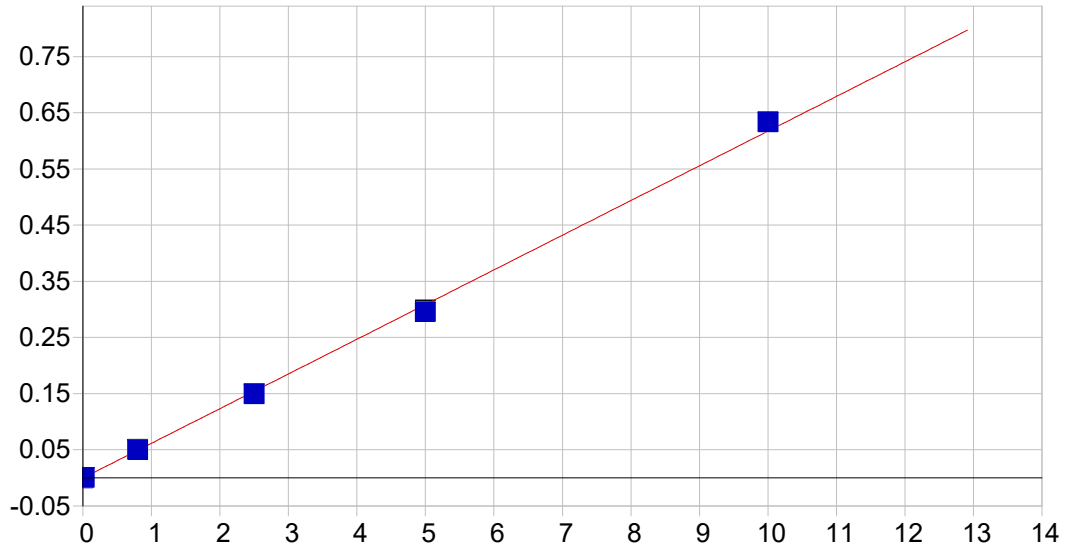
Instrument id number: **Method:** **Run number:** LB133198

Start date: 10/29/2024 **End date:** 10/29/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1133	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1138	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1142	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1146	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1150	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1154	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1159	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1231	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1235	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1240	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1244	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1248	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1301	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1306	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1404	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1415	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1502	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1506	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01	MW-1	1	1551	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01DUP	MW-1DUP	1	1555	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1559	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1603	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01L	MW-1L	5	1611	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MS	MW-1MS	1	1615	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MSD	MW-1MSD	1	1619	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01A	MW-1A	1	1623	Ag,Zn
P4548-02	MW-1	1	1627	Fe,Mn
P4548-03	MW-2	1	1631	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-04	MW-2	1	1635	Fe,Mn
P4548-05	MW-3	1	1640	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-06	MW-3	1	1644	Fe,Mn
P4548-07	MW-4	1	1649	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1653	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1657	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-08	MW-4	1	1705	Fe,Mn
CCV06	CCV06	1	1753	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1758	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164438BL	PB164438BL	1	1807	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164438BS	PB164438BS	1	1816	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1820	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1824	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL
RAW DATA

Reviewed By:
On:
Inst Id :P4
LB :LB133198



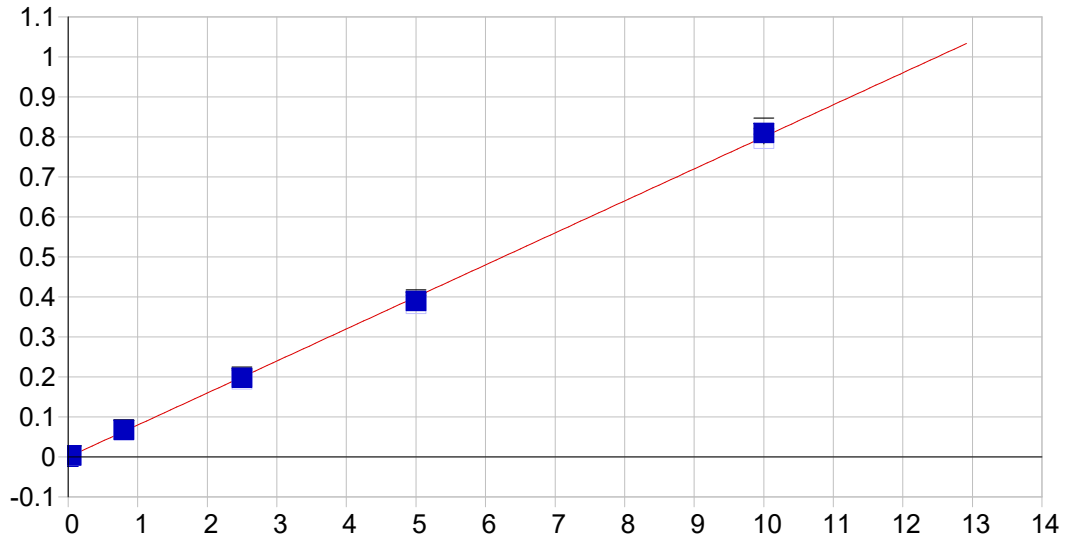
As 189.042 {479}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000191	Re-Slope:	1.000000
A1 (Gain):	0.061765	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999498	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.002124		
Predicted MQL:	0.007079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00019	.000	1
S1	.02000	.01842	-.002	-7.91	.00094	.000	1
S3	2.5000	2.4235	-.077	-3.06	.14933	.000	1
S4	5.0000	4.7945	-.205	-4.11	.29561	.003	1
S5	10.000	10.263	.263	2.63	.63302	.000	1
S2	.80000	.82079	.021	2.60	.05045	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



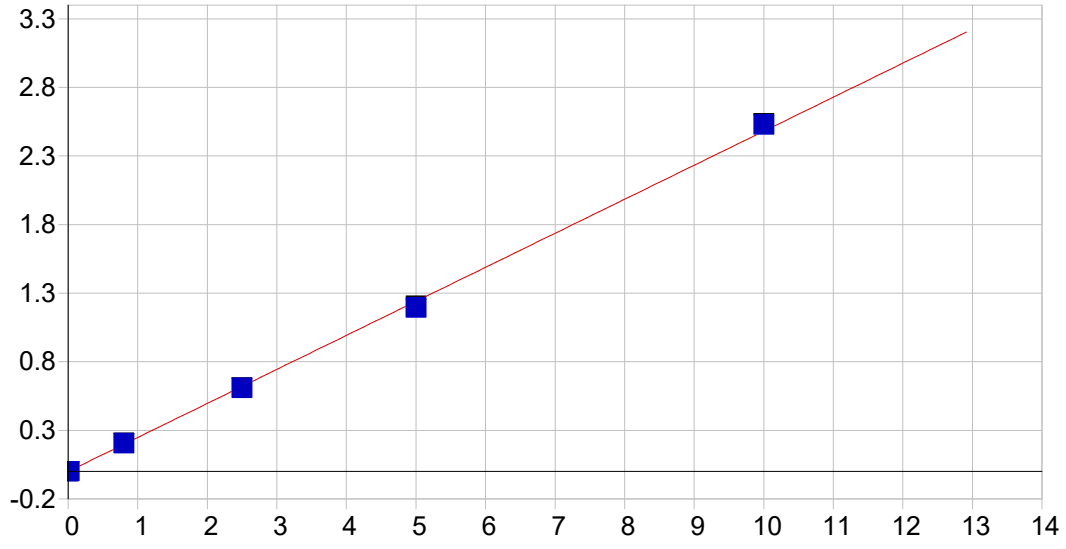
Tl 190.856 {477}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000275	Re-Slope:	1.000000
A1 (Gain):	0.080040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999783	Status:	OK.
Std Error of Est:	0.000054		
Predicted MDL:	0.001461		
Predicted MQL:	0.004869		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00028	.000	1
S1	.04000	.03989	-.000	-.283	.00271	.000	1
S3	2.5000	2.4690	-.031	-1.24	.19366	.003	1
S4	5.0000	4.8682	-.132	-2.64	.38201	.004	1
S5	10.000	10.119	.119	1.19	.79491	.013	1
S2	.80000	.84382	.044	5.48	.06609	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



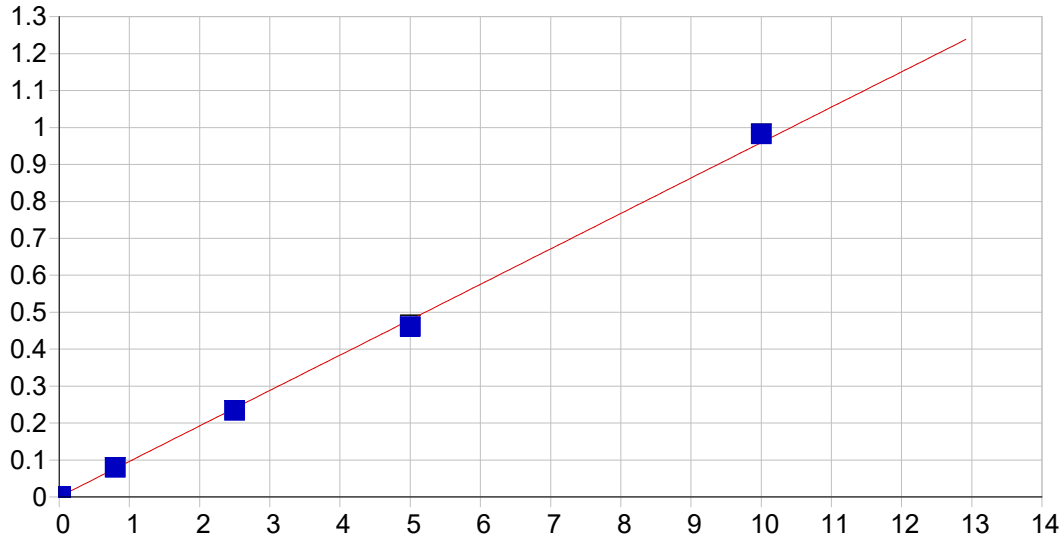
Pb 220.353 {453}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.248095	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999644	Status:	OK.
Std Error of Est:	0.000120		
Predicted MDL:	0.000971		
Predicted MQL:	0.003236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.01200	.01012	-.002	-15.7	.00247	.000	1
S3	2.5000	2.4534	-.047	-1.86	.60803	.001	1
S4	5.0000	4.8177	-.182	-3.65	1.1939	.011	1
S5	10.000	10.199	.199	1.99	2.5276	.006	1
S2	.80000	.83194	.032	3.99	.20620	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



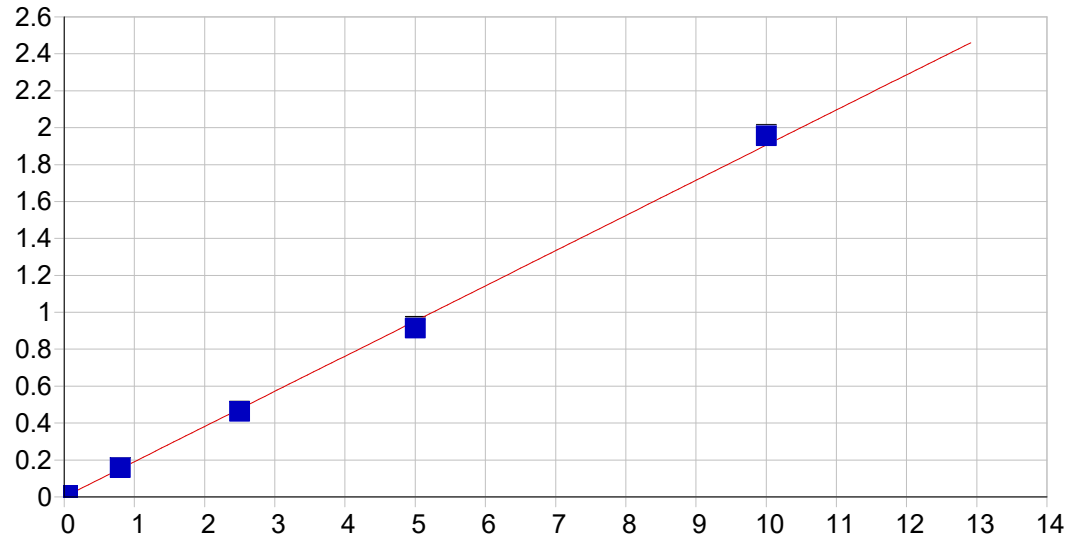
Se 196.090 {472}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000343	Re-Slope:	1.000000
A1 (Gain):	0.095883	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999552	Status:	OK.
Std Error of Est:	0.000067		
Predicted MDL:	0.001856		
Predicted MQL:	0.006186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00034	.000	1
S1	.02000	.01819	-.002	-9.05	.00209	.000	1
S3	2.5000	2.4322	-.068	-2.71	.23349	.000	1
S4	5.0000	4.8027	-.197	-3.95	.46072	.004	1
S5	10.000	10.244	.244	2.44	.98228	.000	1
S2	.80000	.82339	.023	2.92	.07927	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



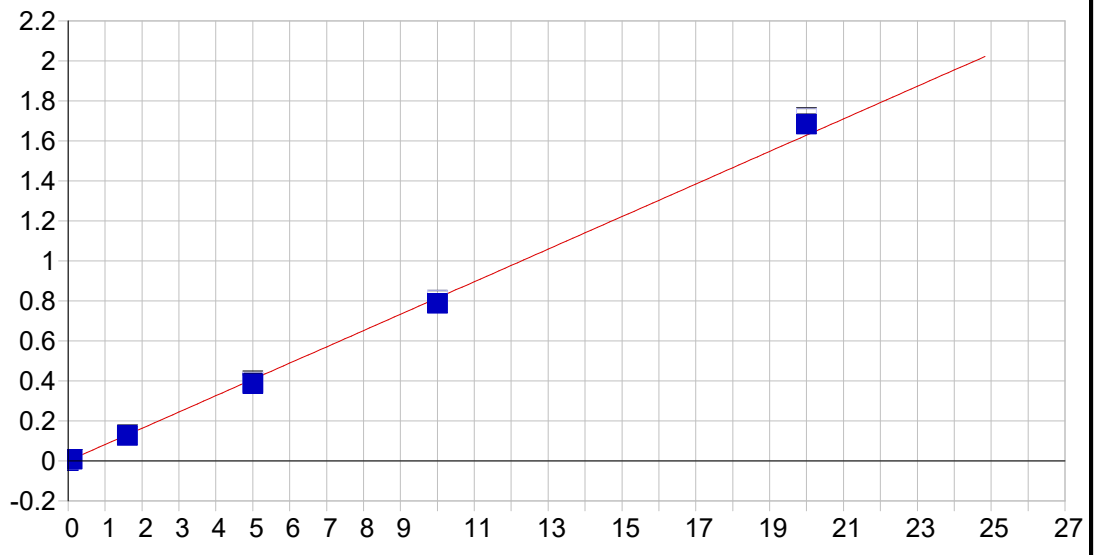
Sb 206.833 {463}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000209	Re-Slope:	1.000000
A1 (Gain):	0.190505	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999497	Status:	OK.
Std Error of Est:	0.000225		
Predicted MDL:	0.001137		
Predicted MQL:	0.003789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00021	.000	1
S1	.05000	.04954	-.000	-.930	.00967	.000	1
S3	2.5000	2.4246	-.075	-3.02	.46340	.001	1
S4	5.0000	4.7909	-.209	-4.18	.91549	.008	1
S5	10.000	10.258	.258	2.58	1.9595	.004	1
S2	.80000	.82733	.027	3.42	.15823	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



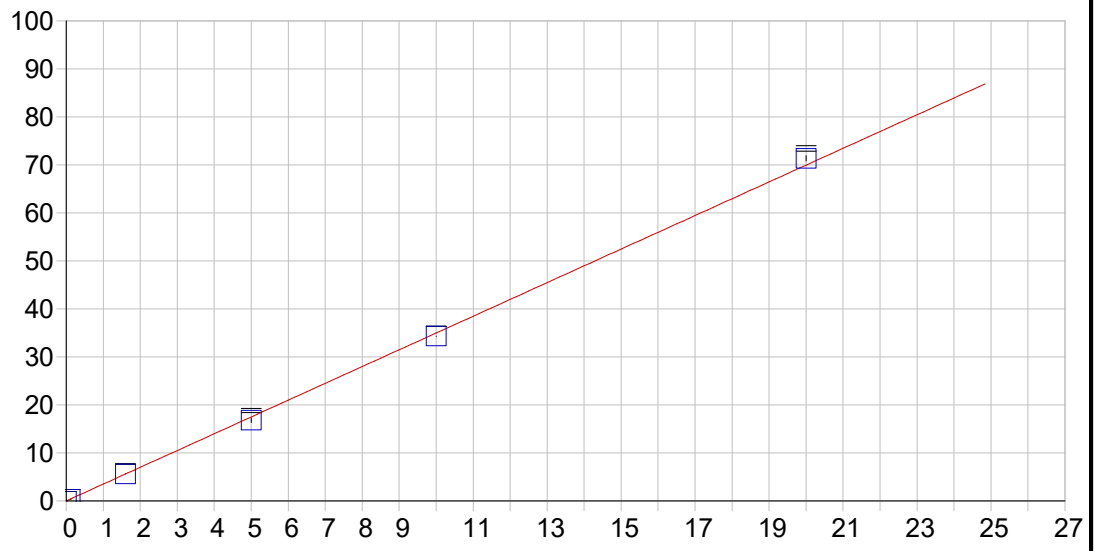
Al 396.152 { 85}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000358	Re-Slope:	1.000000
A1 (Gain):	0.081419	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999352	Status:	OK.
Std Error of Est:	0.000222		
Predicted MDL:	0.005387		
Predicted MQL:	0.017958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00036	.001	1
S1	.10000	.09567	-.004	-4.33	.00878	.000	1
S3	5.0000	4.7307	-.269	-5.39	.39342	.006	1
S4	10.000	9.6572	-.343	-3.43	.80243	.000	1
S5	20.000	20.660	.660	3.30	1.7141	.002	1
S2	1.6000	1.5563	-.044	-2.73	.12959	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



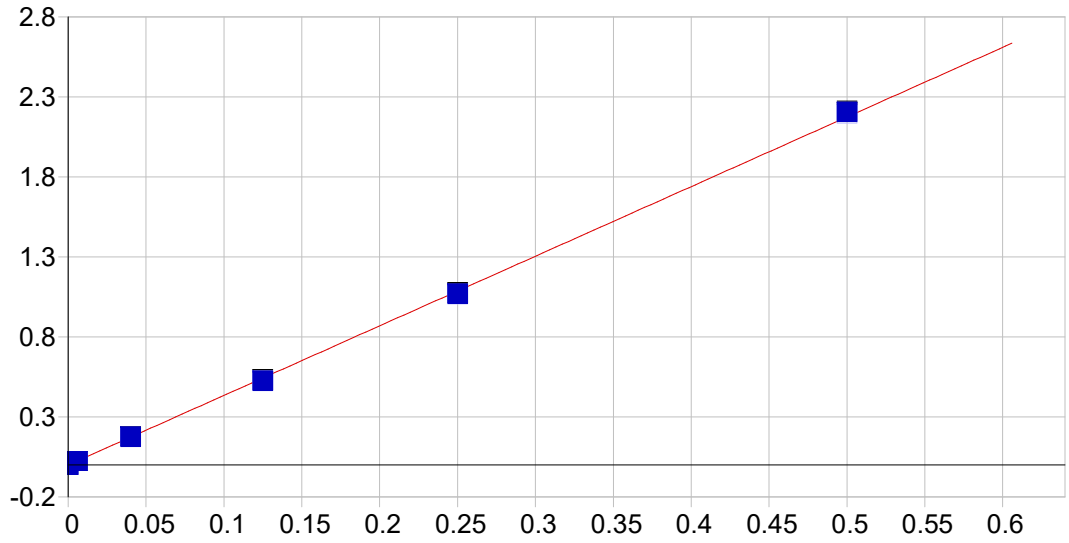
Ba 493.409 { 68}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005789	Re-Slope:	1.000000
A1 (Gain):	3.497549	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999724	Status:	OK.
Std Error of Est:	0.006098		
Predicted MDL:	0.000422		
Predicted MQL:	0.001405		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00580	.001	1
S1	.10000	.09947	-.001	-.533	.35368	.001	1
S3	5.0000	4.7922	-.208	-4.16	16.767	.416	1
S4	10.000	9.8061	-.194	-1.94	34.303	.040	1
S5	20.000	20.397	.397	1.98	71.345	.569	1
S2	1.6000	1.6054	.005	.337	5.6208	.019	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



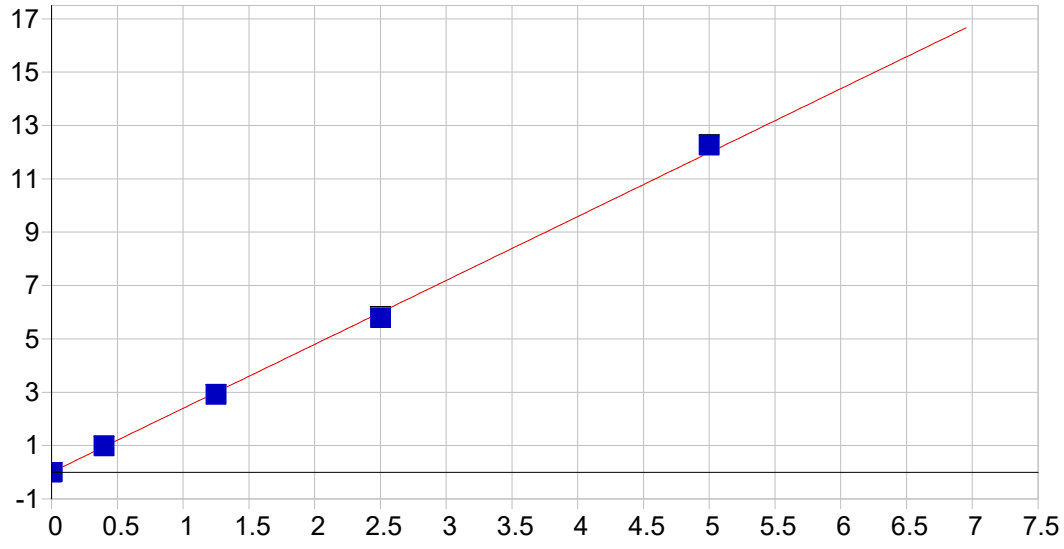
Be 234.861 {144}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000773	Re-Slope:	1.000000
A1 (Gain):	4.350247	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999847	Status:	OK.
Std Error of Est:	0.000218		
Predicted MDL:	0.000050		
Predicted MQL:	0.000168		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00077	.000	1
S1	.00600	.00577	-.000	-3.85	.02413	.000	1
S3	.12500	.12129	-.004	-2.97	.52442	.007	1
S4	.25000	.24635	-.004	-1.46	1.0660	.007	1
S5	.50000	.50717	.007	1.43	2.1958	.006	1
S2	.04000	.04043	.000	1.08	.17433	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



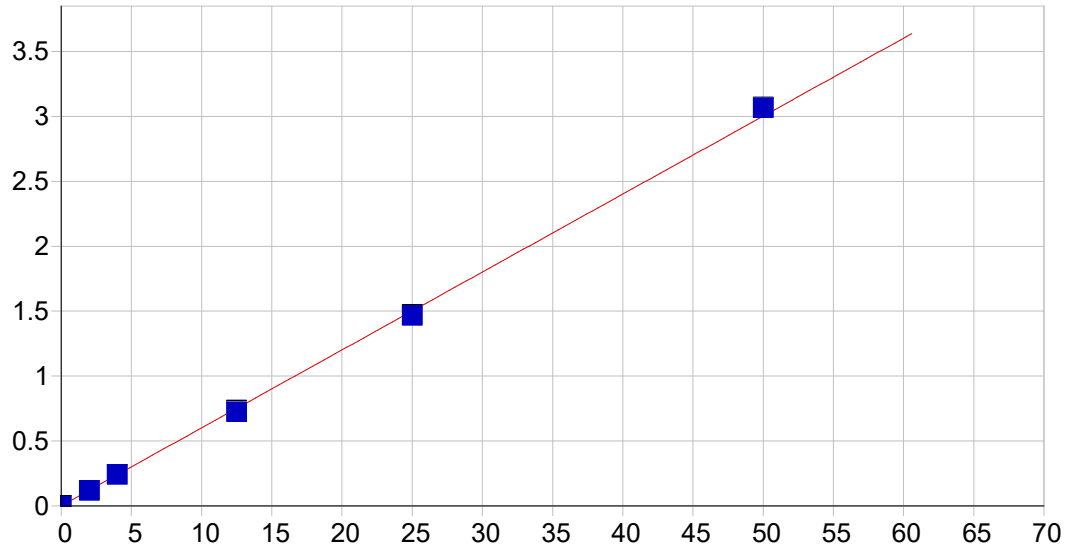
Cd 226.502 {449}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000030	Re-Slope:	1.000000
A1 (Gain):	2.396615	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999638	Status:	OK.
Std Error of Est:	0.000585		
Predicted MDL:	0.000077		
Predicted MQL:	0.000256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00003	.000	1
S1	.00600	.00567	-.000	-5.42	.01368	.000	1
S3	1.2500	1.2149	-.035	-2.81	2.9137	.004	1
S4	2.5000	2.4145	-.085	-3.42	5.7909	.051	1
S5	5.0000	5.1131	.113	2.26	12.262	.022	1
S2	.40000	.40785	.008	1.96	.97815	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



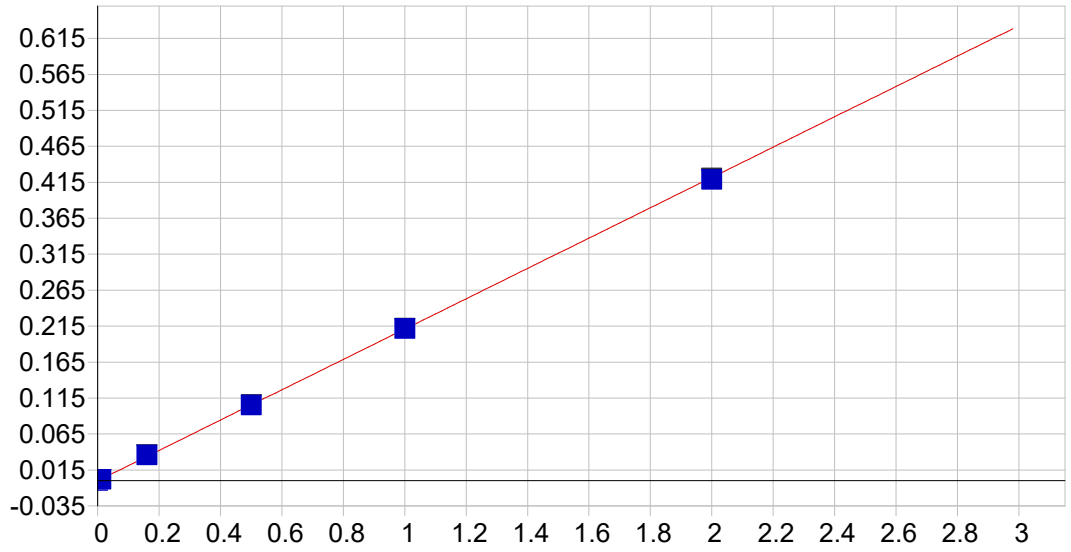
Ca 373.690 { 90}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001069	Re-Slope:	1.000000
A1 (Gain):	0.060021	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.000763		
Predicted MDL:	0.007107		
Predicted MQL:	0.023689		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00012	.000	.000	.00108	.000	1
S2	4.0000	3.9978	-.002	-.056	.24102	.001	1
S3	12.500	12.045	-.455	-3.64	.72400	.013	1
S4	25.000	24.422	-.578	-2.31	1.4669	.007	1
S5	50.000	51.076	1.08	2.15	3.0667	.005	1
S1	2.0000	1.9593	-.041	-2.03	.11867	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



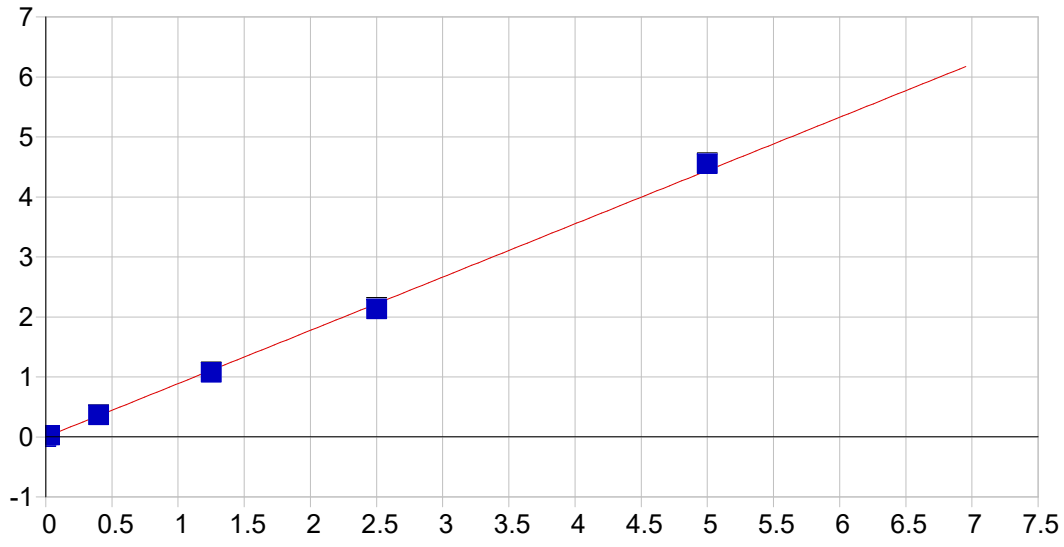
Cr 267.716 {126}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000037	Re-Slope:	1.000000
A1 (Gain):	0.210885	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.000358		
Predicted MQL:	0.001195		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.01000	.01016	.000	1.57	.00211	.000	1
S3	.50000	.49904	-.001	-.192	.10523	.000	1
S4	1.0000	1.0035	.003	.349	.21165	.000	1
S5	2.0000	1.9873	-.013	-.637	.41917	.001	1
S2	.16000	.17006	.010	6.29	.03584	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



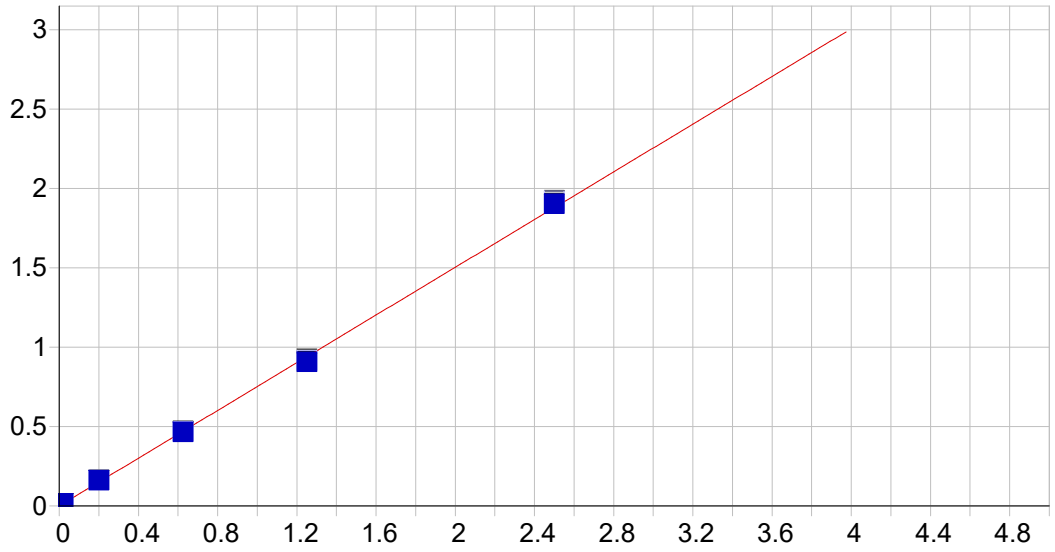
Co 228.616 {448}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000003	Re-Slope:	1.000000
A1 (Gain):	0.887831	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999541	Status:	OK.
Std Error of Est:	0.000547		
Predicted MDL:	0.000186		
Predicted MQL:	0.000619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00000	.000	1
S1	.03000	.03026	.000	.867	.02676	.000	1
S3	1.2500	1.2109	-.039	-3.13	1.0769	.003	1
S4	2.5000	2.4026	-.097	-3.89	2.1369	.021	1
S5	5.0000	5.1255	.126	2.51	4.5582	.008	1
S2	.40000	.41070	.011	2.67	.36523	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



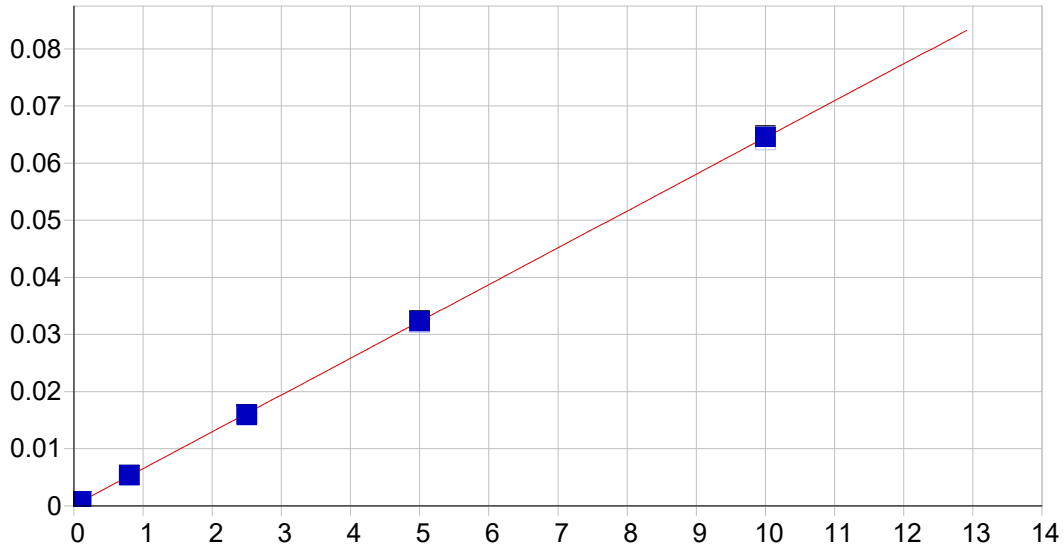
Cu 224.700 {450}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000343	Re-Slope:	1.000000
A1 (Gain):	0.751768	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999685	Status:	OK.
Std Error of Est:	0.000223		
Predicted MDL:	0.000373		
Predicted MQL:	0.001245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00034	.000	1
S1	.02000	.02140	.001	7.00	.01662	.000	1
S3	.62500	.61959	-.005	-.866	.47061	.001	1
S4	1.2500	1.2075	-.042	-3.40	.91706	.008	1
S5	2.5000	2.5329	.033	1.32	1.9224	.003	1
S2	.20000	.21360	.014	6.80	.16235	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



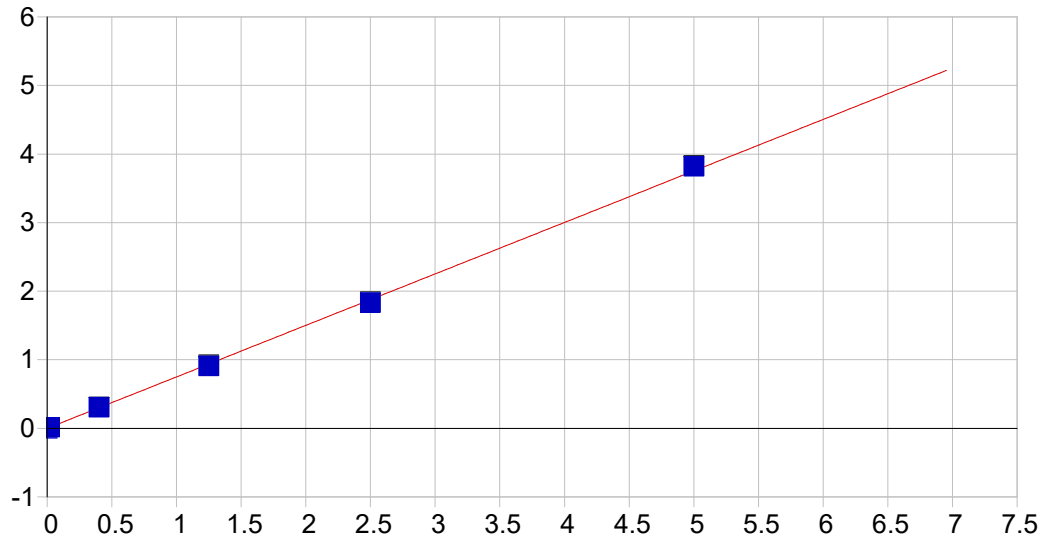
Fe 240.488 {140}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000100	Re-Slope:	1.000000
A1 (Gain):	0.006440	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000003		
Predicted MDL:	0.003837		
Predicted MQL:	0.012790		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00010	.000	1
S1	.10000	.10378	.004	3.78	.00076	.000	1
S3	2.5000	2.4629	-.037	-1.48	.01582	.000	1
S4	5.0000	5.0066	.007	.132	.03207	.000	1
S5	10.000	10.011	.011	.111	.06402	.000	1
S2	.80000	.81560	.016	1.95	.00531	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



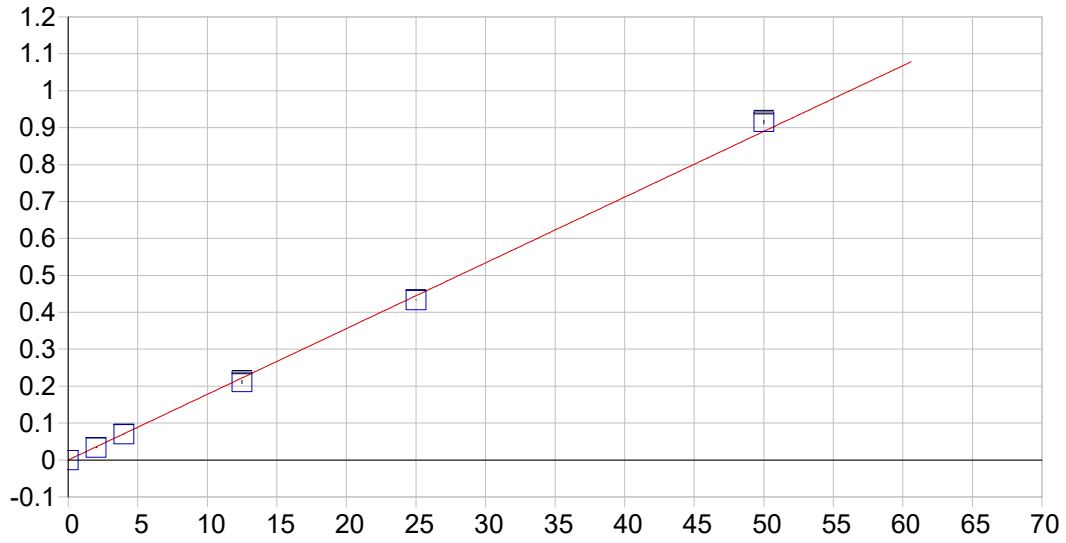
Mn 257.610 {131}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000013	Re-Slope:	1.000000
A1 (Gain):	0.750714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999761	Status:	OK.
Std Error of Est:	0.000272		
Predicted MDL:	0.000243		
Predicted MQL:	0.000810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00001	.000	1
S1	.02000	.02018	.000	.898	.01517	.000	1
S3	1.2500	1.2105	-.039	-3.16	.90896	.015	1
S4	2.5000	2.4416	-.058	-2.34	1.8333	.008	1
S5	5.0000	5.0891	.089	1.78	3.8212	.007	1
S2	.40000	.40863	.009	2.16	.30683	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



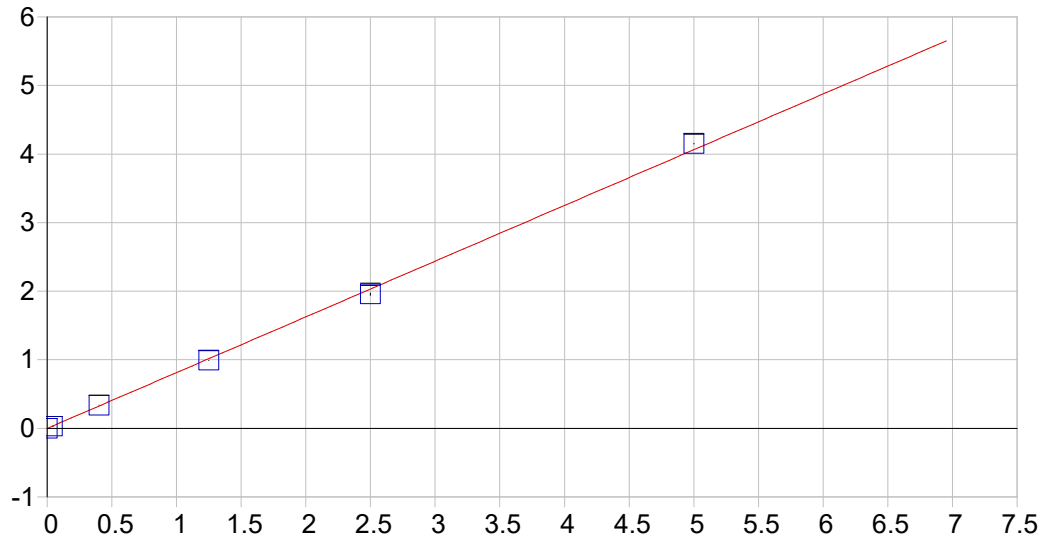
Mg 279.079 {121}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000202	Re-Slope:	1.000000
A1 (Gain):	0.017802	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999496	Status:	OK.
Std Error of Est:	0.000299		
Predicted MDL:	0.010803		
Predicted MQL:	0.036009		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00022	.000	.000	-.00020	.000	1
S2	4.0000	3.9149	-.085	-2.13	.06949	.000	1
S3	12.500	11.881	-.619	-4.95	.21130	.004	1
S4	25.000	24.354	-.646	-2.58	.43335	.001	1
S5	50.000	51.437	1.44	2.87	.91548	.005	1
S1	2.0000	1.9132	-.087	-4.34	.03386	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



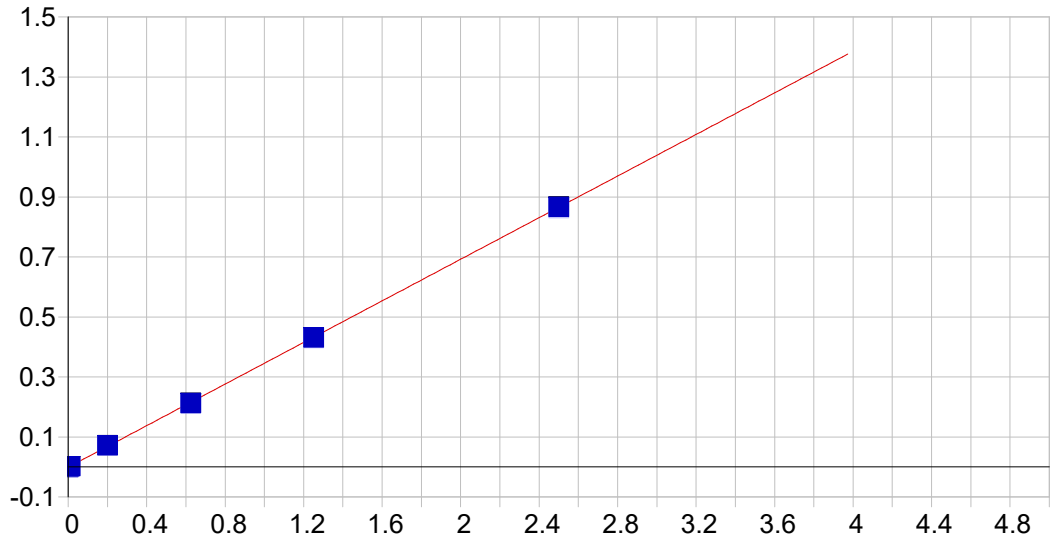
Ni 231.604 {446}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000148	Re-Slope:	1.000000
A1 (Gain):	0.812736	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999616	Status:	OK.
Std Error of Est:	0.000529		
Predicted MDL:	0.000245		
Predicted MQL:	0.000818		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00015	.000	1
S1	.04000	.03977	-.000	-.580	.03217	.000	1
S3	1.2500	1.2192	-.031	-2.46	.99077	.002	1
S4	2.5000	2.4077	-.092	-3.69	1.9566	.017	1
S5	5.0000	5.1090	.109	2.18	4.1521	.007	1
S2	.40000	.41432	.014	3.58	.33659	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



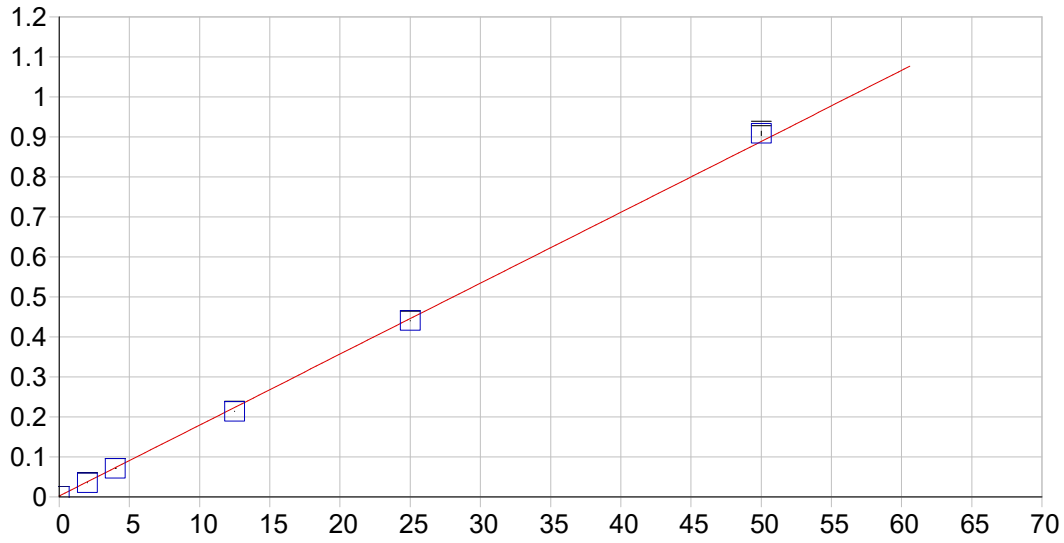
Ag 328.068 {103}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001292	Re-Slope:	1.000000
A1 (Gain):	0.346712	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999927	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.000304		
Predicted MQL:	0.001012		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00129	.000	1
S1	.01000	.01060	.001	6.00	.00236	.000	1
S3	.62500	.61618	-.009	-1.41	.21148	.000	1
S4	1.2500	1.2467	-.003	-.268	.42922	.000	1
S5	2.5000	2.5016	.002	.066	.86262	.001	1
S2	.20000	.20993	.010	4.97	.07122	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



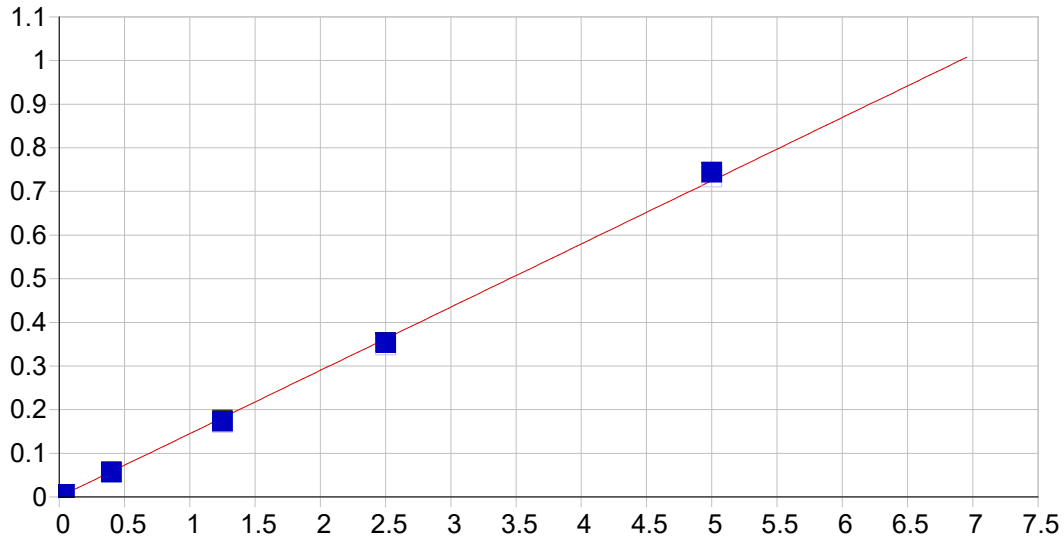
Na 589.592 { 57}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002414	Re-Slope:	1.000000
A1 (Gain):	0.017727	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999639	Status:	OK.
Std Error of Est:	0.000252		
Predicted MDL:	0.008805		
Predicted MQL:	0.029350		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00027	.000	.000	.00242	.000	1
S2	4.0000	3.8870	-.113	-2.83	.07132	.000	1
S3	12.500	11.927	-.573	-4.58	.21384	.000	1
S4	25.000	24.710	-.290	-1.16	.44045	.001	1
S5	50.000	51.115	1.12	2.23	.90853	.006	1
S1	2.0000	1.8602	-.140	-6.99	.03539	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



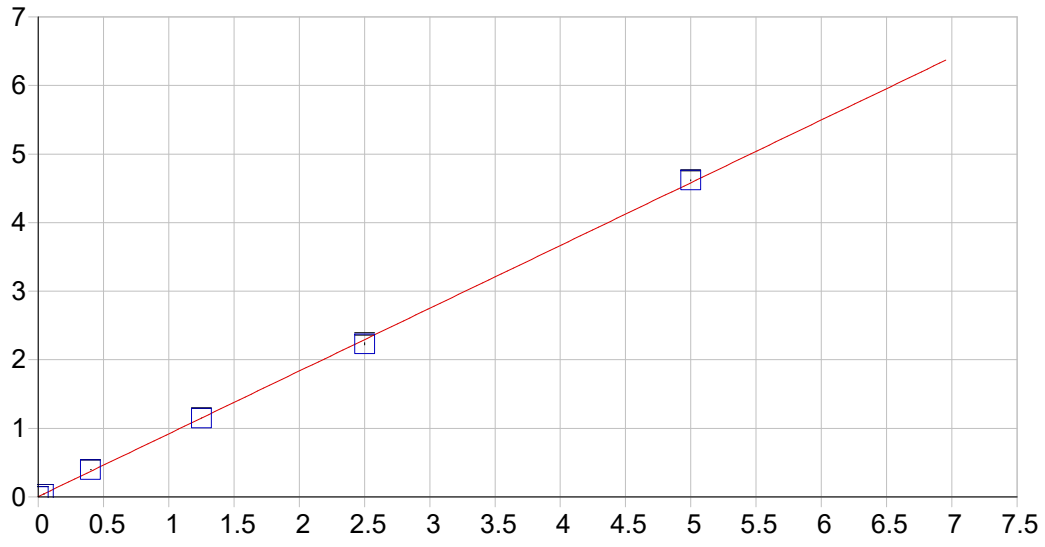
V 292.402 {115}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000073	Re-Slope:	1.000000
A1 (Gain):	0.144912	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999561	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.001368		
Predicted MQL:	0.004559		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00007	.000	1
S1	.04000	.03840	-.002	-3.99	.00542	.000	1
S3	1.2500	1.1932	-.057	-4.55	.17034	.003	1
S4	2.5000	2.4364	-.064	-2.54	.34786	.001	1
S5	5.0000	5.1303	.130	2.61	.73296	.001	1
S2	.40000	.39159	-.008	-2.10	.05597	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



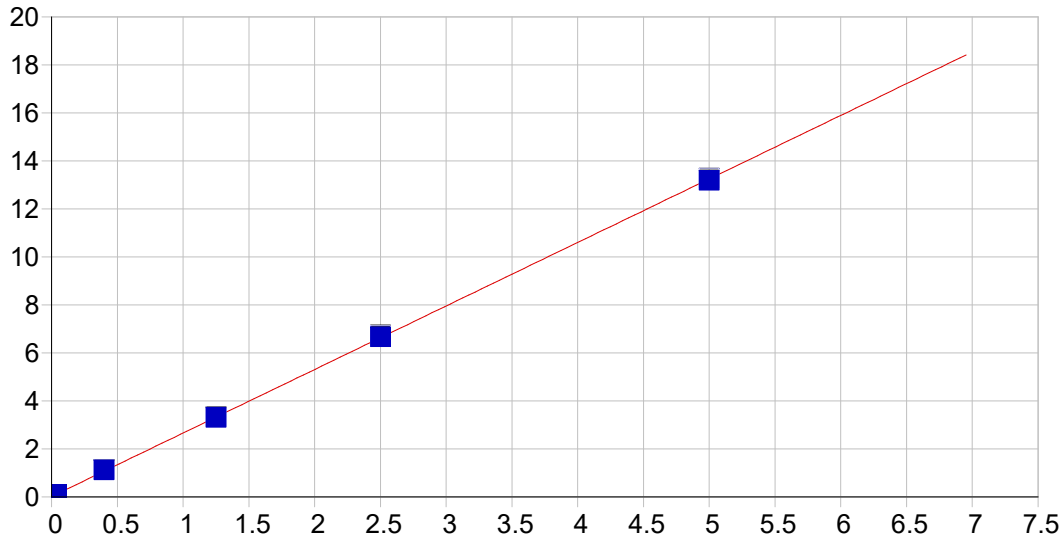
Zn 206.200 {464}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005248	Re-Slope:	1.000000
A1 (Gain):	0.915252	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999783	Status:	OK.
Std Error of Est:	0.000447		
Predicted MDL:	0.000191		
Predicted MQL:	0.000637		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00525	.000	1
S1	.04000	.03922	-.001	-1.95	.04115	.000	1
S3	1.2500	1.2511	.001	.089	1.1503	.002	1
S4	2.5000	2.4327	-.067	-2.69	2.2318	.017	1
S5	5.0000	5.0398	.040	.796	4.6179	.006	1
S2	.40000	.42716	.027	6.79	.39621	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



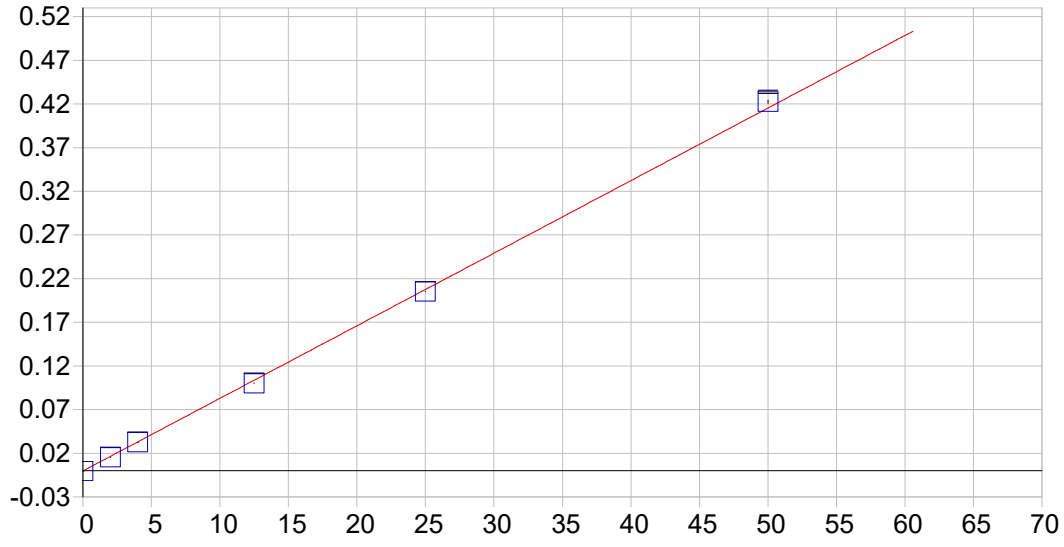
Zn 213.856 {158}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.015677	Re-Slope:	1.000000
A1 (Gain):	2.646667	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000721		
Predicted MDL:	0.000267		
Predicted MQL:	0.000889		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01568	.001	1
S1	.04000	.03773	-.002	-5.69	.11627	.002	1
S3	1.2500	1.2445	-.006	-.441	3.3324	.010	1
S4	2.5000	2.5147	.015	.589	6.7173	.030	1
S5	5.0000	4.9744	-.026	-.511	13.273	.012	1
S2	.40000	.41863	.019	4.66	1.1310	.006	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



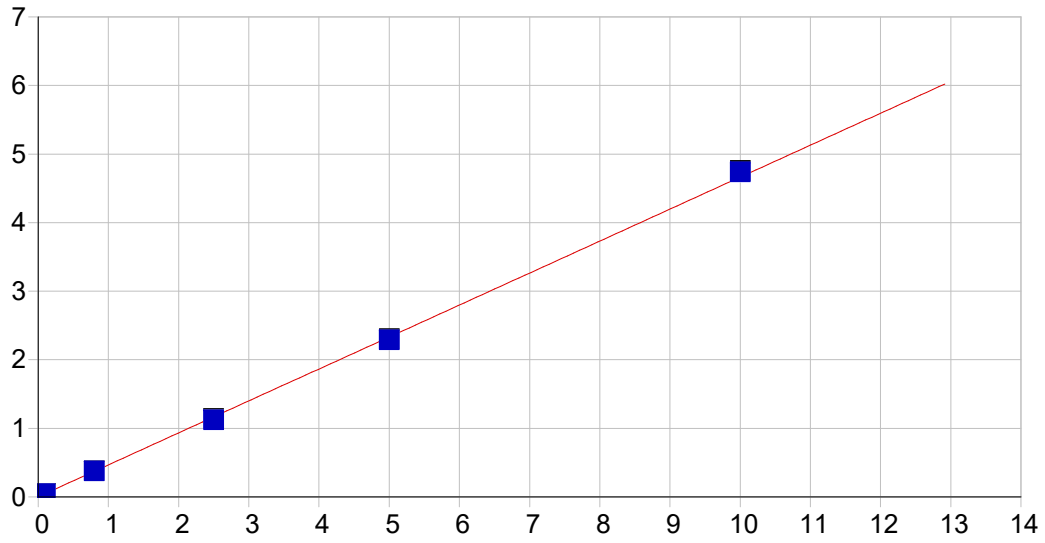
K 766.490 { 44}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000242	Re-Slope:	1.000000
A1 (Gain):	0.008312	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.022097		
Predicted MQL:	0.073656		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00019	.000	.000	-.00024	.000	1
S2	4.0000	3.9539	-.046	-1.15	.03262	.000	1
S3	12.500	12.084	-.416	-3.32	.10020	.000	1
S4	25.000	24.706	-.294	-1.18	.20511	.000	1
S5	50.000	50.871	.871	1.74	.42260	.002	1
S1	2.0000	1.8844	-.116	-5.78	.01542	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



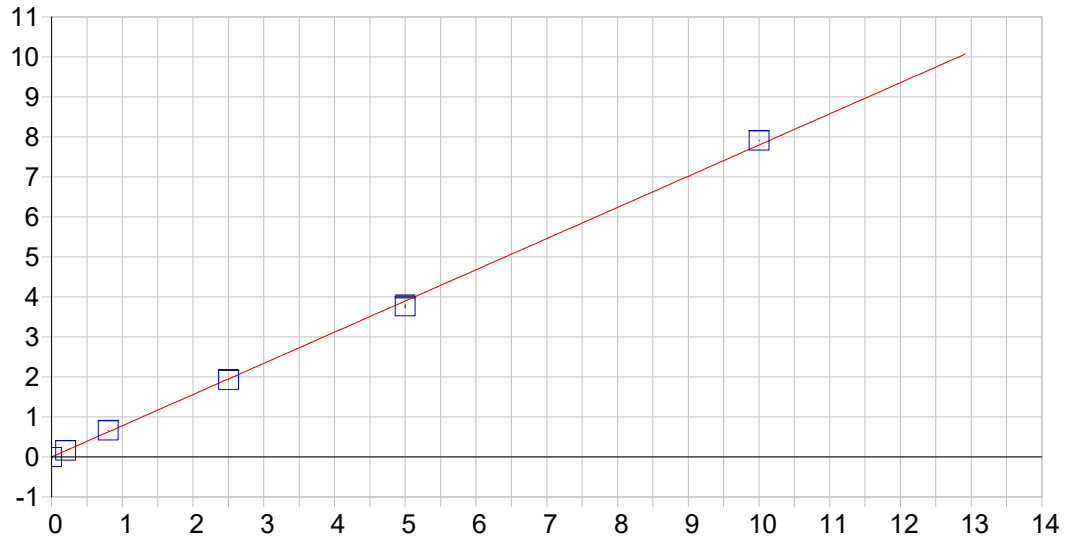
B 249.678 {135}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001049	Re-Slope:	1.000000
A1 (Gain):	0.466168	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	0.000503		
Predicted MDL:	0.000575		
Predicted MQL:	0.001916		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00105	.000	1
S1	.10000	.10140	.001	1.40	.04812	.000	1
S3	2.5000	2.4089	-.091	-3.64	1.1217	.015	1
S4	5.0000	4.9138	-.086	-1.72	2.2871	.012	1
S5	10.000	10.171	.171	1.71	4.7332	.017	1
S2	.80000	.80526	.005	.658	.37571	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



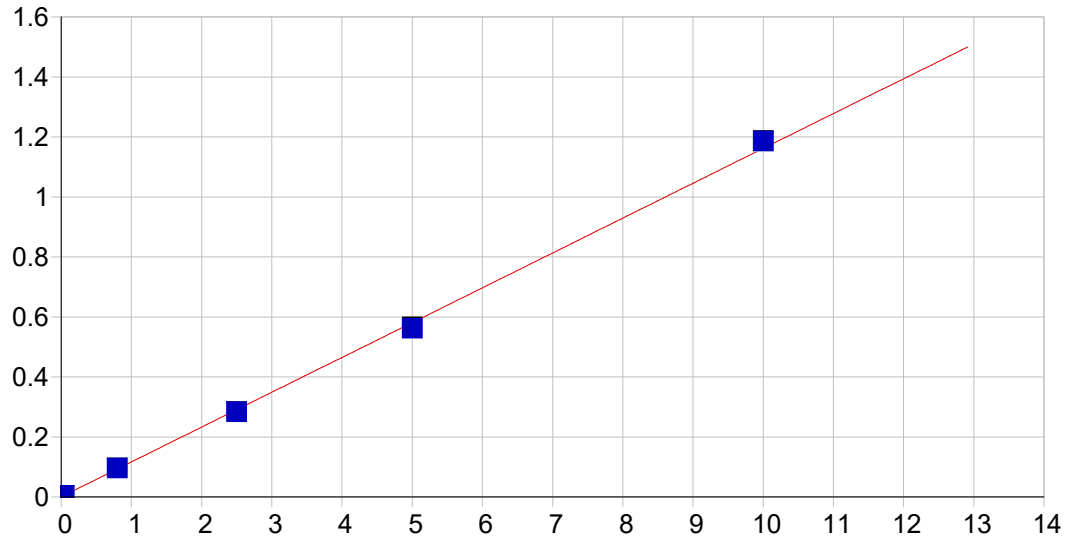
Mo 202.030 {467}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000092	Re-Slope:	1.000000
A1 (Gain):	0.779710	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999695	Status:	OK.
Std Error of Est:	0.001433		
Predicted MDL:	0.000237		
Predicted MQL:	0.000789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00008	.000	1
S1	.20000	.20794	.008	3.97	.16222	.001	1
S3	2.5000	2.4703	-.030	-1.19	1.9262	.003	1
S4	5.0000	4.8313	-.169	-3.37	3.7671	.037	1
S5	10.000	10.142	.142	1.42	7.9083	.006	1
S2	.80000	.84801	.048	6.00	.66129	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



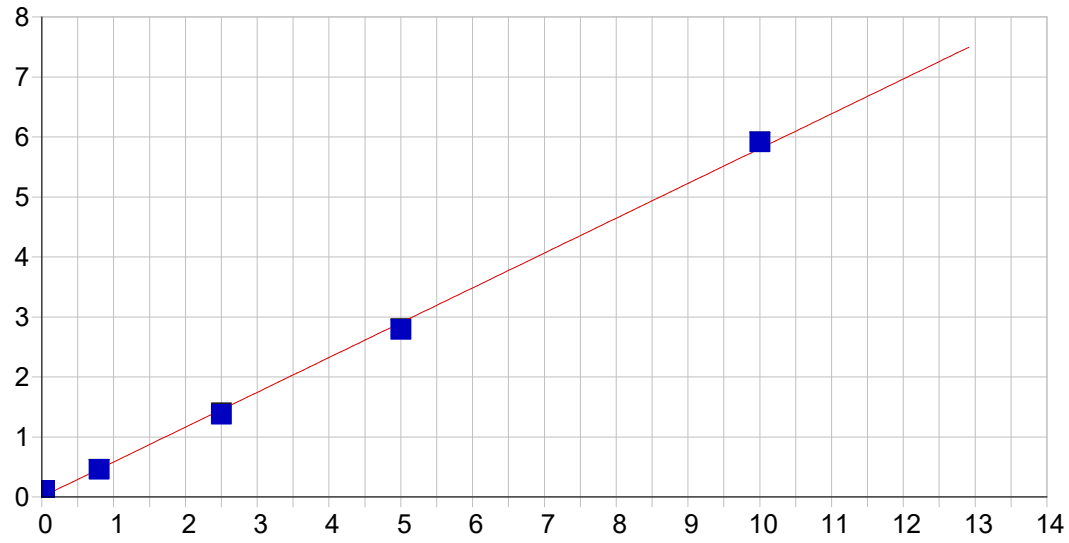
Sn 189.989 {478}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000333	Re-Slope:	1.000000
A1 (Gain):	0.116115	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999674	Status:	OK.
Std Error of Est:	0.000098		
Predicted MDL:	0.000729		
Predicted MQL:	0.002428		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00033	.000	1
S1	.04000	.03930	-.001	-1.74	.00489	.000	1
S3	2.5000	2.4377	-.062	-2.49	.28309	.000	1
S4	5.0000	4.8342	-.166	-3.32	.56106	.005	1
S5	10.000	10.208	.208	2.08	1.1845	.002	1
S2	.80000	.82053	.021	2.57	.09551	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



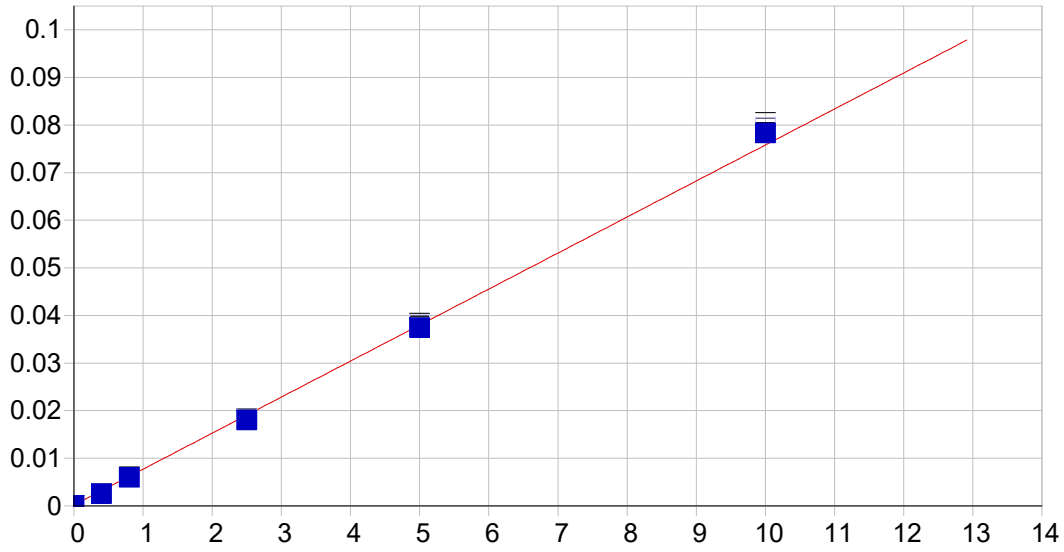
Ti 336.121 {100}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001743	Re-Slope:	1.000000
A1 (Gain):	0.580347	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.984546	Status:	OK.
Std Error of Est:	0.003421		
Predicted MDL:	0.000504		
Predicted MQL:	0.001680		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00166	.000	1
S1	.04000	.18980	.150	375.	.11188	.000	1
S3	2.5000	2.3666	-.133	-5.34	1.3747	.024	1
S4	5.0000	4.8077	-.192	-3.85	2.7908	.007	1
S5	10.000	10.188	.188	1.88	5.9124	.002	1
S2	.80000	.78757	-.012	-1.55	.45864	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



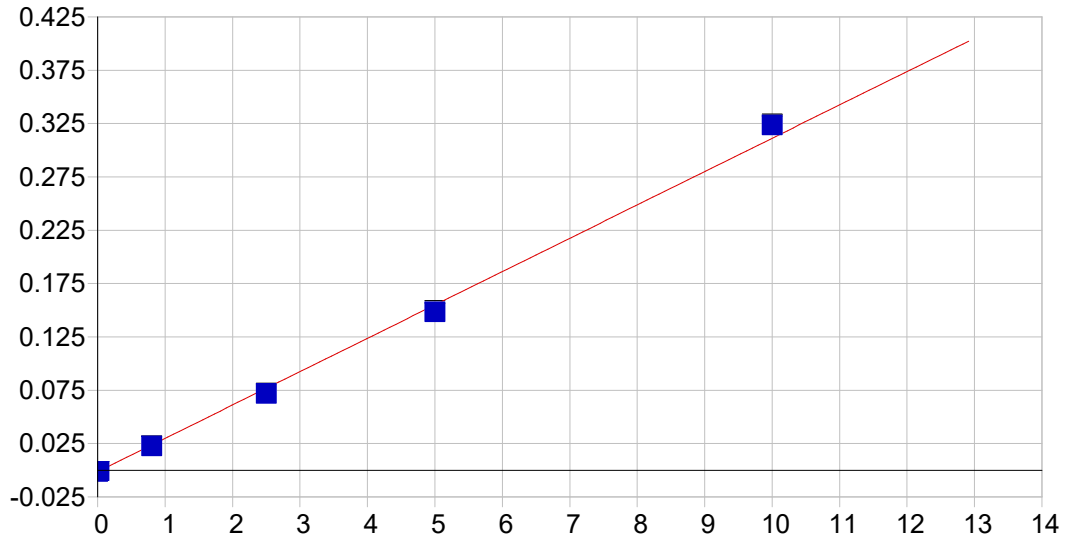
Si 288.158 {117}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000160	Re-Slope:	1.000000
A1 (Gain):	0.007565	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998940	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.005594		
Predicted MQL:	0.018646		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00012	.000	.000	.00016	.000	1
S1	.40000	.31291	-.087	-21.8	.00253	.000	1
S3	2.5000	2.3567	-.143	-5.73	.01827	.000	1
S4	5.0000	4.9289	-.071	-1.42	.03802	.000	1
S5	10.000	10.335	.335	3.35	.07948	.001	1
S2	.80000	.76590	-.034	-4.26	.00605	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



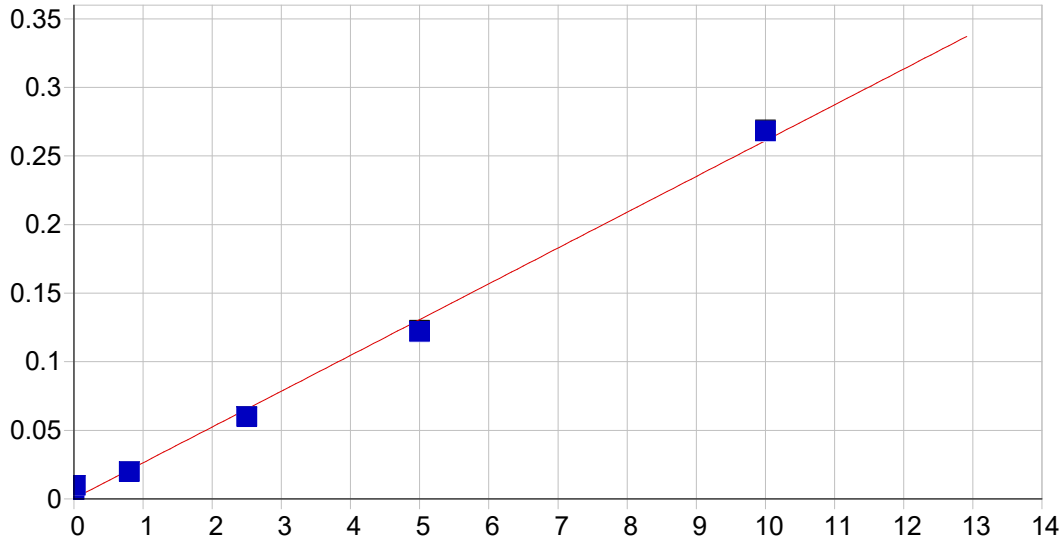
P 177.495 {490}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001346	Re-Slope:	1.000000
A1 (Gain):	0.031260	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999033	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.002533		
Predicted MQL:	0.008442		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00135	.000	1
S1	.02000	.01728	-.003	-13.6	-.00081	.000	1
S3	2.5000	2.3444	-.156	-6.22	.07193	.000	1
S4	5.0000	4.7919	-.208	-4.16	.14842	.001	1
S5	10.000	10.396	.396	3.96	.32358	.001	1
S2	.80000	.77057	-.029	-3.68	.02274	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



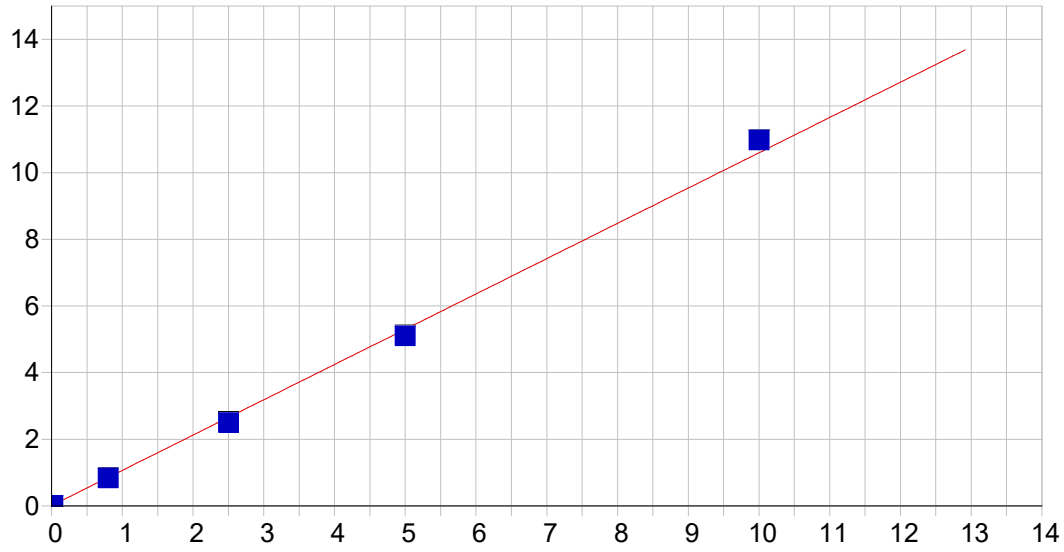
S 182.034 {485}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000264	Re-Slope:	1.000000
A1 (Gain):	0.026094	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.868646	Status:	OK.
Std Error of Est:	0.000348		
Predicted MDL:	0.002996		
Predicted MQL:	0.009986		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00034	-.000	.000	.00026	.000	1
S1	.02000	.36264	.343	1710.	.00970	.000	1
S3	2.5000	2.2844	-.216	-8.62	.05970	.000	1
S4	5.0000	4.6649	-.335	-6.70	.12165	.001	1
S5	10.000	10.274	.274	2.74	.26766	.001	1
S2	.80000	.74821	-.052	-6.47	.01973	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



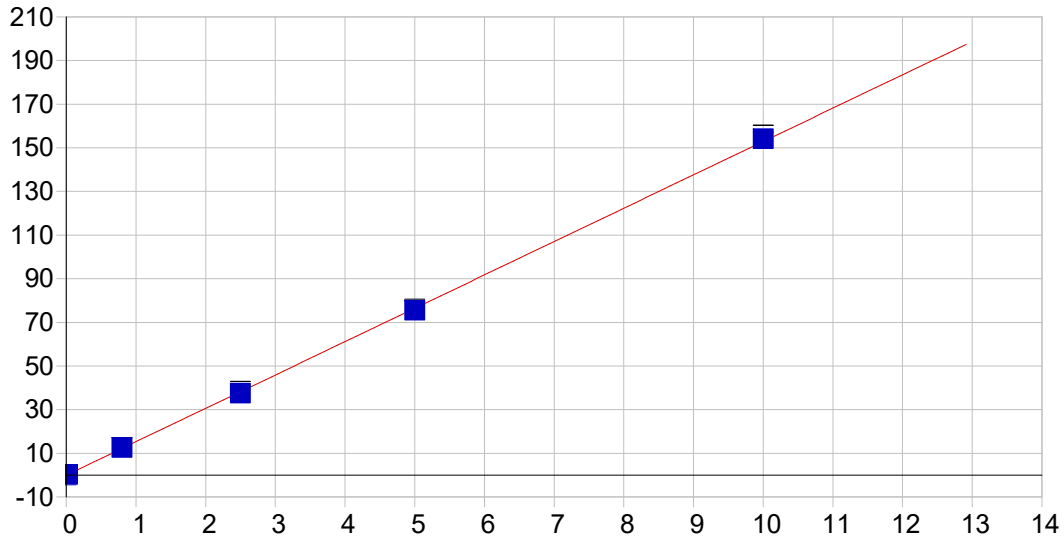
Li 670.784 { 50}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007037	Re-Slope:	1.000000
A1 (Gain):	1.059101	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999218	Status:	OK.
Std Error of Est:	0.000983		
Predicted MDL:	0.000737		
Predicted MQL:	0.002458		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00704	.000	1
S5	10.000	10.354	.354	3.54	10.982	.017	1
S4	5.0000	4.8115	-.188	-3.77	5.1077	.018	1
S3	2.5000	2.3537	-.146	-5.85	2.5023	.037	1
S1	.02000	.01796	-.002	-10.2	.02644	.000	1
S2	.80000	.78315	-.017	-2.11	.83723	.003	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198



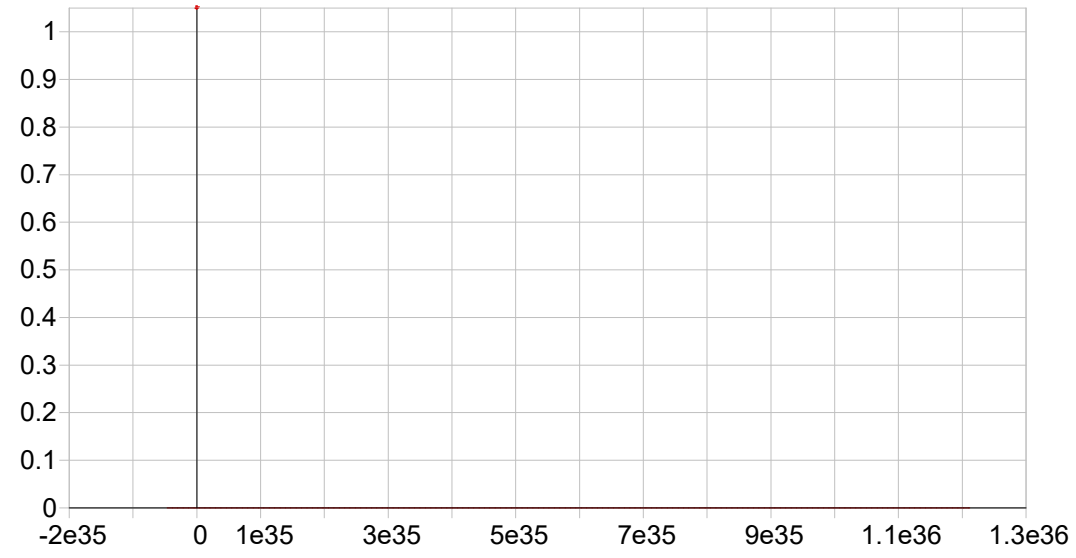
Sr 407.771 { 83}

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000608	Re-Slope:	1.000000
A1 (Gain):	15.289362	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999918	Status:	OK.
Std Error of Est:	0.004587		
Predicted MDL:	0.000032		
Predicted MQL:	0.000108		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00061	.000	1
S1	.02000	.01982	-.000	-.881	.30401	.001	1
S3	2.5000	2.4543	-.046	-1.83	37.562	.820	1
S4	5.0000	4.9390	-.061	-1.22	75.590	.493	1
S5	10.000	10.082	.082	.825	154.31	1.60	1
S2	.80000	.82437	.024	3.05	12.616	.031	1

Reviewed By:
On:
Inst Id :P4
LB :LB133198

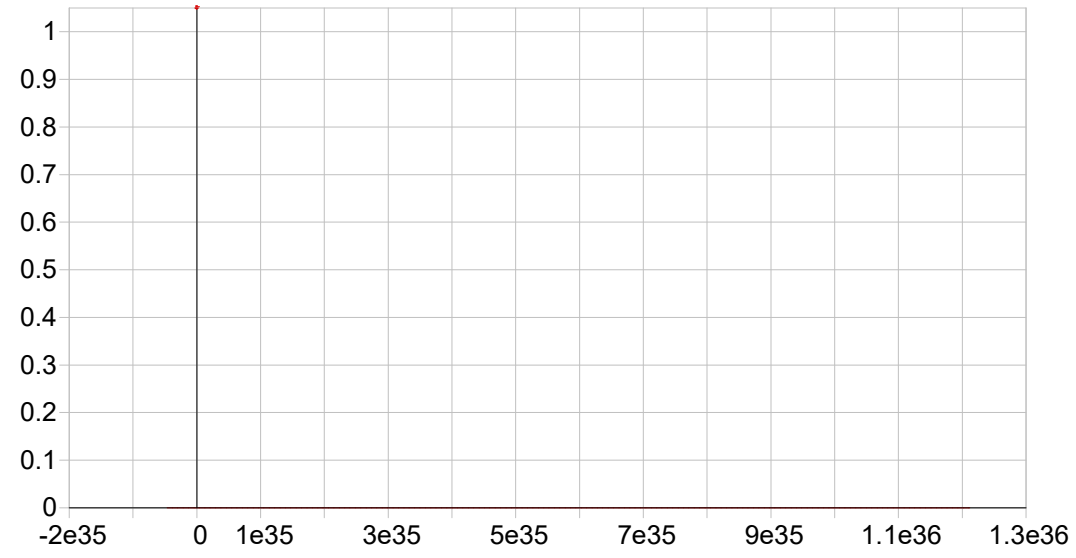


Y 224.306 {450}*

Date of Fit:	10/29/2024 13:05:44	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

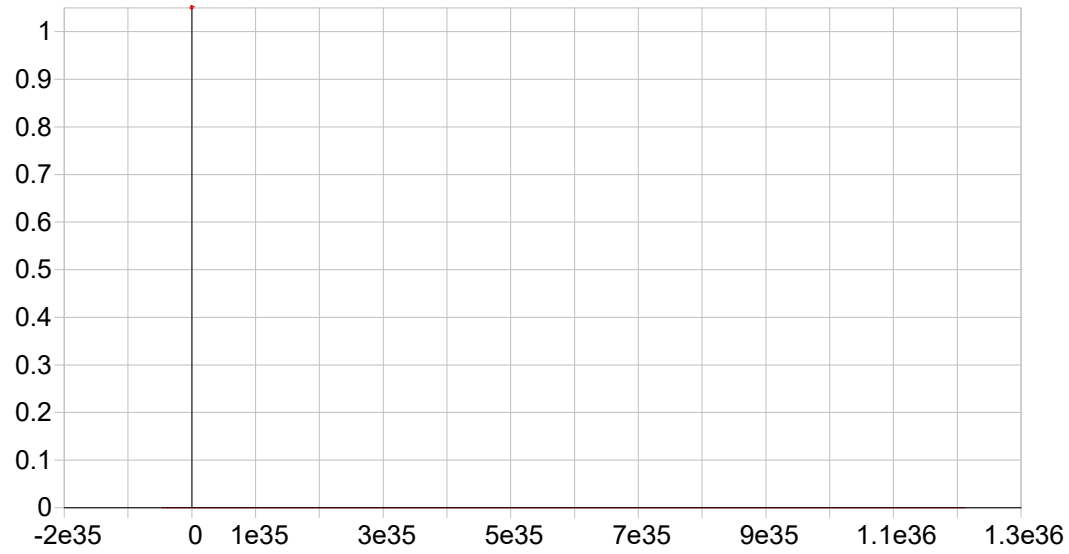
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:
On:
Inst Id :P4
LB :LB133198

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



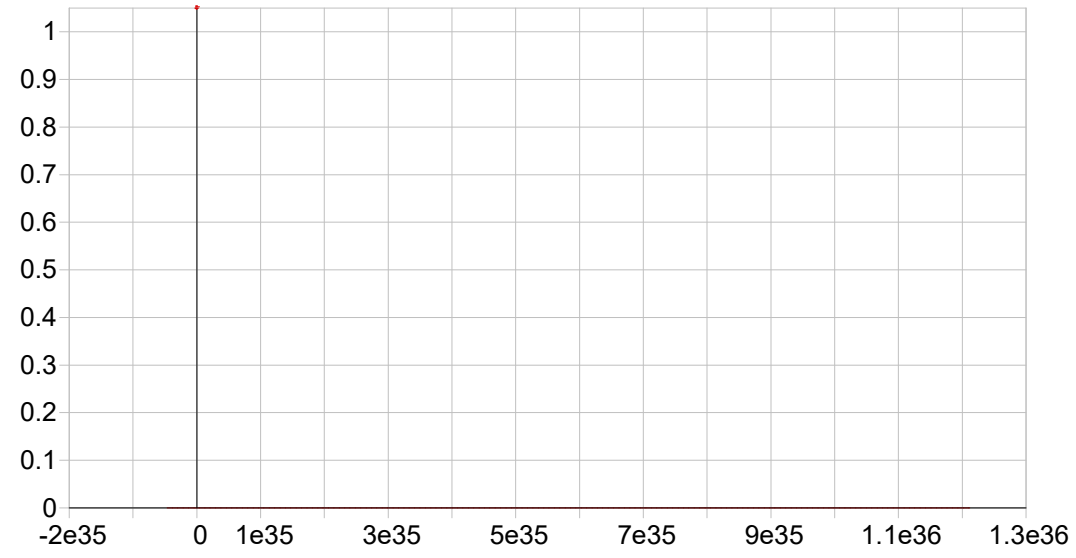
Y 371.030 { 91}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

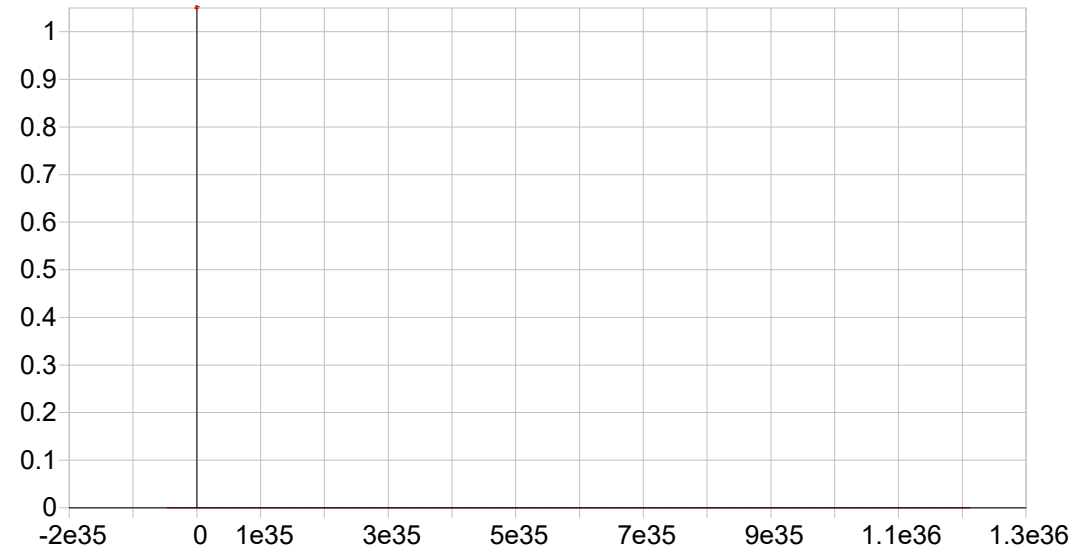
Reviewed By:
On:
Inst Id :P4
LB :LB133198



Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:
On:
Inst Id :P4
LB :LB133198

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164438

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 10/26/2024 **Time :** 09:40 **Temp :** 95 °C

End Digest Date: 10/26/2024 **Time :** 12:50 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JPP

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	M6009
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	3.00	M6097
1:1 HCL	5.00	MP82127
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

Hot Block # 1 Cell # 50 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 12:55	JPP / Met Dig.	5 Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164438

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4491-02	COMP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
P4546-03	34839-40	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	2
P4548-01	MW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
P4548-01MS	MW-1MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	5
P4548-01MSD	MW-1MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	6
P4548-01DUP	MW-1DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
P4548-02	MW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7
P4548-03	MW-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	8
P4548-04	MW-2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	9
P4548-05	MW-3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	10
P4548-06	MW-3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	11
P4548-07	MW-4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	12
P4548-08	MW-4	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	13
P4564-01	100324	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	14
P4578-01	WB-305-SW	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	15
P4578-02	WB-305-SW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	16
PB164438BL	PBW438	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	17
PB164438BS	LCS438	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	18

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB164438 **WorkList ID :** 184815 **Department :** Digestion **Date :** 10-26-2024 08:56:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4491-02	COMP	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	ARAM01	K11	10/23/2024	6010D
P4546-03	34839-40	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	K61	10/24/2024	6010D
P4548-01	MW-1	Water	Metals Group4	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-02	MW-1	Water	Dissolved Metals Group5	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-03	MW-2	Water	Metals Group4	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-04	MW-2	Water	Dissolved Metals Group5	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-05	MW-3	Water	Metals Group4	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-06	MW-3	Water	Dissolved Metals Group5	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-07	MW-4	Water	Metals Group4	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4548-08	MW-4	Water	Dissolved Metals Group5	1:1 HNO3 to pH < 2	LOCK01	K11	10/23/2024	6010D
P4564-01	100324	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PSEG03	K63	10/25/2024	6010D
P4578-01	WB-305-SW	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PORT06	K63	10/25/2024	6010D
P4578-02	WB-305-SW-1	Water	Metals ICP-TAL	1:1 HNO3 to pH < 2	PORT06	K63	10/25/2024	6010D

Date/Time 10/26/24 9:00
Raw Sample Received by: JSP (Met dig)
Raw Sample Relinquished by: J. C (SM 1)

Date/Time 10/26/24 11:00
Raw Sample Received by: J-C (SM 1)
Raw Sample Relinquished by: JSP (Met dig)

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133198

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/29/24 11:33		Kareem	OK
2	S1	S1	CAL2	10/29/24 11:38		Kareem	OK
3	S2	S2	CAL3	10/29/24 11:42		Kareem	OK
4	S3	S3	CAL4	10/29/24 11:46		Kareem	OK
5	S4	S4	CAL5	10/29/24 11:50		Kareem	OK
6	S5	S5	CAL6	10/29/24 11:54		Kareem	OK
7	ICV01	ICV01	ICV	10/29/24 11:59	Fail for Al,Ba,Be,Cd,Ca,Mg,Mn,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	10/29/24 12:31		Kareem	OK
9	ICB01	ICB01	ICB	10/29/24 12:35		Kareem	OK
10	CRI01	CRI01	CRDL	10/29/24 12:40		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/29/24 12:44		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/29/24 12:48		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/29/24 12:53		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/29/24 12:57		Kareem	OK
15	CCV01	CCV01	CCV	10/29/24 13:01		Kareem	OK
16	CCB01	CCB01	CCB	10/29/24 13:06		Kareem	OK
17	P3645-01DL	914-J-WS-081524DL	SAM	10/29/24 13:11	Not Required	Kareem	Not Ok
18	P3645-01DUPDL	914-J-WS-081524DU	DUP	10/29/24 13:15	Not Required	Kareem	Not Ok

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Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	P3645-01LDL	914-J-WS-081524LDL	SD	10/29/24 13:19	Not Required	Kareem	Not Ok
20	P3645-01MSDL	914-J-WS-081524MS	MS	10/29/24 13:24	5x for Si	Kareem	Confirms
21	P3645-01MSDDL	914-J-WS-081524MS	MSD	10/29/24 13:28	5x for Si	Kareem	Confirms
22	P3645-01ADL	914-J-WS-081524ADL	PS	10/29/24 13:32	Not Required	Kareem	Not Ok
23	P4596-07	TOTE-WATER-COMP	SAM	10/29/24 13:36	NOT USE	Kareem	Not Ok
24	P4596-07DUP	TOTE-WATER-COMP	DUP	10/29/24 13:41	NOT USE	Kareem	Not Ok
25	P4596-07L	TOTE-WATER-COMP	SD	10/29/24 13:45	NOT USE	Kareem	Not Ok
26	P4596-07MS	TOTE-WATER-COMP	MS	10/29/24 13:49	NOT USE	Kareem	Not Ok
27	CCV02	CCV02	CCV	10/29/24 14:04		Kareem	OK
28	CCB02	CCB02	CCB	10/29/24 14:15		Kareem	OK
29	P4596-07MSD	TOTE-WATER-COMP	MSD	10/29/24 14:19	NOT USE	Kareem	Not Ok
30	P4596-07A	TOTE-WATER-COMP	PS	10/29/24 14:23	NOT USE	Kareem	Not Ok
31	PB164479BL	PB164479BL	MB	10/29/24 14:27		Kareem	OK
32	PB164479BS	PB164479BS	LCS	10/29/24 14:31		Kareem	OK
33	P4511-01	266	SAM	10/29/24 14:35		Kareem	OK
34	P4512-01	3140	SAM	10/29/24 14:40		Kareem	OK
35	P4512-02	3149	SAM	10/29/24 14:44		Kareem	OK
36	P4513-04	D3682	SAM	10/29/24 14:49		Kareem	OK
37	P4513-04DUP	D3682DUP	DUP	10/29/24 14:53		Kareem	OK
38	P4513-04L	D3682L	SD	10/29/24 14:58		Kareem	OK

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Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

39	CCV03	CCV03	CCV	10/29/24 15:02		Kareem	OK
40	CCB03	CCB03	CCB	10/29/24 15:06		Kareem	OK
41	P4513-04MS	D3682MS	MS	10/29/24 15:16		Kareem	OK
42	P4513-04MSD	D3682MSD	MSD	10/29/24 15:21		Kareem	OK
43	P4513-04A	D3682A	PS	10/29/24 15:25		Kareem	OK
44	PB164336TB	PB164336TB	MB	10/29/24 15:29		Kareem	OK
45	PB164379BL	PB164379BL	MB	10/29/24 15:34		Kareem	OK
46	PB164379BS	PB164379BS	LCS	10/29/24 15:38		Kareem	OK
47	P4491-02	COMP	SAM	10/29/24 15:42		Kareem	OK
48	P4546-03DL	34839-40DL	SAM	10/29/24 15:46	Straight 5x Dilution for all elements	Kareem	OK
49	P4548-01	MW-1	SAM	10/29/24 15:51		Kareem	OK
50	P4548-01DUP	MW-1DUP	DUP	10/29/24 15:55		Kareem	OK
51	CCV04	CCV04	CCV	10/29/24 15:59		Kareem	OK
52	CCB04	CCB04	CCB	10/29/24 16:03		Kareem	OK
53	P4548-01L	MW-1L	SD	10/29/24 16:11		Kareem	OK
54	P4548-01MS	MW-1MS	MS	10/29/24 16:15		Kareem	OK
55	P4548-01MSD	MW-1MSD	MSD	10/29/24 16:19		Kareem	OK
56	P4548-01A	MW-1A	PS	10/29/24 16:23		Kareem	OK
57	P4548-02	MW-1	SAM	10/29/24 16:27		Kareem	OK

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Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

58	P4548-03	MW-2	SAM	10/29/24 16:31		Kareem	OK
59	P4548-04	MW-2	SAM	10/29/24 16:35		Kareem	OK
60	P4548-05	MW-3	SAM	10/29/24 16:40		Kareem	OK
61	P4548-06	MW-3	SAM	10/29/24 16:44		Kareem	OK
62	P4548-07	MW-4	SAM	10/29/24 16:49		Kareem	OK
63	CCV05	CCV05	CCV	10/29/24 16:53		Kareem	OK
64	CCB05	CCB05	CCB	10/29/24 16:57		Kareem	OK
65	P4548-08	MW-4	SAM	10/29/24 17:05		Kareem	OK
66	P4564-01	100324	SAM	10/29/24 17:11		Kareem	OK
67	P4578-01	WB-305-SW	SAM	10/29/24 17:15	Na (OverSaturated)	Kareem	Dilution
68	P4578-02	WB-305-SW-1	SAM	10/29/24 17:20	Na (OverSaturated)	Kareem	Dilution
69	LR1	LR1	HIGH STD	10/29/24 17:33		Kareem	OK
70	LR2	LR2	HIGH STD	10/29/24 17:38		Kareem	OK
71	P4564-01DL	100324DL	SAM	10/29/24 17:45	Not Required	Kareem	Not Ok
72	P4578-01DL	WB-305-SWDL	SAM	10/29/24 17:49	5x for Na	Kareem	Confirms
73	CCV06	CCV06	CCV	10/29/24 17:53		Kareem	OK
74	CCB06	CCB06	CCB	10/29/24 17:58		Kareem	OK
75	P4578-02DL	WB-305-SW-1DL	SAM	10/29/24 18:02	5x for Na	Kareem	Confirms
76	PB164438BL	PB164438BL	MB	10/29/24 18:07		Kareem	OK
77	PB164438BS	PB164438BS	LCS	10/29/24 18:16		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133198

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

78	CCV07	CCV07	CCV	10/29/24 18:20		Kareem	OK
79	CCB07	CCB07	CCB	10/29/24 18:24		Kareem	OK

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. Bottle # P4548
QUOTE NO. B2410024
COC Number 2042090

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LKB, INC.
ADDRESS: 1 AERIAL WAY
CITY SYOSSET STATE: NY ZIP: 11791
ATTENTION: JOHN GERLACH
PHONE: 516-210-8931 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ANSONIA LANDFILL
PROJECT NO.: 0724-08 LOCATION: CT
PROJECT MANAGER: JOHN GERLACH
e-mail: jgerlach@LKBINC.COM
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: LKB, INC. PO#: NA for Lab
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: SHARON F. PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): STD. 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 + Raw Data)
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☒ EDD FORMAT NYSDEC

ANALYSIS

VOCs SEE BOTTLE ORDER # B2410024

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/E	E + Others As Appropriate								← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER
1.	MW-1	GW		X	10/23/24	10:05A	10		X								SAMPLES FOR DISS. Fe + Mn FILTERED IN FIELD.
2.	MW-2			X		12:15P	10		X								
3.	MW-3			X		11:00A	10		X								
4.	MW-4			X		11:30A	10		X								
5.	TRIP BLANK	DI		X			2	X									
6.																	
7.																	
8.																	
9.																	
10.																	

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

	DATE/TIME		
RELINQUISHED BY SAMPLER: 1.	10/24/24 7:50A	RECEIVED BY: 1.	10.24.2024 1340
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1905 10-24-2024	RECEIVED BY: 3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.0c °C
Comments:

Page ___ of ___
CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4548 LOCK01
Client Name : Lockwood, Kessler & Bartl
Client Contact : John Gerlach
Invoice Name : Lockwood, Kessler & Bartl
Invoice Contact : John Gerlach

Order Date : 10/24/2024 3:18:00 PM
Project Name : Ansonia Landfill 2024
Receive DateTime : 10/23/2024 ~~12:00:00 AM~~ 19:05
Purchase Order :

Project Mgr :
Report Type : Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4548-01	MW-1	Water	10/23/2024	10:05					
					VOCMS Group1		8260-Low		10 Bus. Days
P4548-03	MW-2	Water	10/23/2024	12:15					
					VOCMS Group1		8260-Low		10 Bus. Days
P4548-05	MW-3	Water	10/23/2024	11:00					
					VOCMS Group1		8260-Low		10 Bus. Days
P4548-07	MW-4	Water	10/23/2024	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
P4548-09	TRIP BLANK	Water	10/23/2024	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 10/25/24 0900

Received By : [signature]
Date / Time : 10/25/24 0900 Ref # 4

Storage Area : VOA Refridgerator Room