

LAB CHRONICLE

OrderID: P5365	OrderDate: 12/20/2024 10:24:00 AM
Client: Weston Solutions	Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact: Nathan Fretz	Location: N21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5365-01	TAPFTA-SB011I-4.5-12 1924-00-T1	SOIL			12/19/24			12/20/24
			Mercury	7471B		12/20/24	12/20/24	
			Metals ICP-TAL	6020B		01/06/25	01/06/25	

Hit Summary Sheet SW-846

SDG No.: P5365

Order ID: P5365

Client: Weston Solutions

Project ID: Ft Meade Tipton Airfield Parcel RI - PO 01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TAPFTA-SB01I-4.5-121924-00-T1									
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Aluminum	4070	D	2.39	4.27	8.54	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Antimony	0.077	JD	0.043	0.32	0.85	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Arsenic	1.61	D	0.038	0.11	0.43	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Barium	19.4	D	0.16	0.53	4.27	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Beryllium	0.31	JD	0.11	0.32	0.43	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Calcium	304	D	28.8	81.1	213	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Chromium	9.40	D	0.10	0.21	0.85	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Cobalt	3.51	D	0.034	0.11	0.43	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Copper	5.53	D	0.24	0.43	0.85	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Iron	9450	D	4.74	5.34	21.3	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Lead	3.12	D	0.064	0.32	0.43	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Magnesium	887	D	11.5	81.1	213	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Manganese	112	D	0.14	0.21	0.43	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Nickel	4.47	D	0.068	0.11	0.43	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Mercury	0.0080	J	0.0060	0.011	0.013	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Potassium	777	D	17.0	81.1	213	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Sodium	41.4	JD	26.1	107	213	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Thallium	0.10	JD	0.043	0.21	0.43	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Vanadium	14.3	D	0.034	0.11	2.13	mg/Kg
P5365-01	TAPFTA-SB01I-4.5-121924-00-T	SOIL	Zinc	11.7	D	0.56	0.64	2.13	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/19/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/20/24
Client Sample ID:	TAPFTA-SB01I-4.5-121924-00-T1	SDG No.:	P5365
Lab Sample ID:	P5365-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4070	D	5	2.39	4.27	8.54	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-36-0	Antimony	0.077	JD	5	0.043	0.32	0.85	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-38-2	Arsenic	1.61	DN	5	0.038	0.11	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-39-3	Barium	19.4	DN	5	0.16	0.53	4.27	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-41-7	Beryllium	0.31	JDN	5	0.11	0.32	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-43-9	Cadmium	0.32	UDN	5	0.12	0.32	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-70-2	Calcium	304	D	5	28.8	81.1	213	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-47-3	Chromium	9.40	DN	5	0.10	0.21	0.85	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-48-4	Cobalt	3.51	DN	5	0.034	0.11	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-50-8	Copper	5.53	D	5	0.24	0.43	0.85	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7439-89-6	Iron	9450	D	5	4.74	5.34	21.3	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7439-92-1	Lead	3.12	D	5	0.064	0.32	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7439-95-4	Magnesium	887	D	5	11.5	81.1	213	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7439-96-5	Manganese	112	D	5	0.14	0.21	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7439-97-6	Mercury	0.0080	J	1	0.0060	0.011	0.013	mg/Kg	12/20/24 10:15	12/20/24 14:47	SW7471B	
7440-02-0	Nickel	4.47	DN	5	0.068	0.11	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-09-7	Potassium	777	D	5	17.0	81.1	213	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7782-49-2	Selenium	1.92	UDN	5	0.51	1.92	2.13	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-22-4	Silver	0.21	UDN	5	0.11	0.21	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-23-5	Sodium	41.4	JD	5	26.1	107	213	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-28-0	Thallium	0.10	JDN	5	0.043	0.21	0.43	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-62-2	Vanadium	14.3	DN	5	0.034	0.11	2.13	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050
7440-66-6	Zinc	11.7	D	5	0.56	0.64	2.13	mg/Kg	01/06/25 09:05	01/06/25 15:03	SW6020	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV28	Mercury	4.01	4.0	100	90 - 110	CV	12/20/2024	14:13	LB134050

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV57	Mercury	5.05	5.0	101	90 - 110	CV	12/20/2024	14:17	LB134050
CCV58	Mercury	4.92	5.0	98	90 - 110	CV	12/20/2024	14:43	LB134050
CCV59	Mercury	4.90	5.0	98	90 - 110	CV	12/20/2024	15:01	LB134050

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	478	500	96	90 - 110	P	01/06/2025	14:05	LB134187
	Antimony	205	200	103	90 - 110	P	01/06/2025	14:05	LB134187
	Arsenic	212	200	106	90 - 110	P	01/06/2025	14:05	LB134187
	Barium	98.9	100	99	90 - 110	P	01/06/2025	14:05	LB134187
	Beryllium	105	100	105	90 - 110	P	01/06/2025	14:05	LB134187
	Cadmium	104	100	104	90 - 110	P	01/06/2025	14:05	LB134187
	Calcium	2050	2000	102	90 - 110	P	01/06/2025	14:05	LB134187
	Chromium	104	100	104	90 - 110	P	01/06/2025	14:05	LB134187
	Cobalt	104	100	104	90 - 110	P	01/06/2025	14:05	LB134187
	Copper	99.4	100	99	90 - 110	P	01/06/2025	14:05	LB134187
	Iron	2160	2000	108	90 - 110	P	01/06/2025	14:05	LB134187
	Lead	190	200	95	90 - 110	P	01/06/2025	14:05	LB134187
	Magnesium	1180	1200	98	90 - 110	P	01/06/2025	14:05	LB134187
	Manganese	101	100	101	90 - 110	P	01/06/2025	14:05	LB134187
	Nickel	109	110	99	90 - 110	P	01/06/2025	14:05	LB134187
	Potassium	1990	2000	100	90 - 110	P	01/06/2025	14:05	LB134187
	Selenium	214	200	107	90 - 110	P	01/06/2025	14:05	LB134187
	Silver	49.9	50.0	100	90 - 110	P	01/06/2025	14:05	LB134187
	Sodium	1990	2000	100	90 - 110	P	01/06/2025	14:05	LB134187
	Thallium	195	210	93	90 - 110	P	01/06/2025	14:05	LB134187
	Vanadium	99.6	100	100	90 - 110	P	01/06/2025	14:05	LB134187
	Zinc	202	200	101	90 - 110	P	01/06/2025	14:05	LB134187

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5365
Contract: WEST04 Lab Code: CHEM Case No.: P5365 SAS No.: P5365
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	19.3	20.0	96	80 - 120	P	01/06/2025	14:09	LB134187
	Antimony	2.21	2.0	110	80 - 120	P	01/06/2025	14:09	LB134187
	Arsenic	1.17	1.0	117	80 - 120	P	01/06/2025	14:09	LB134187
	Barium	10.3	10.0	103	80 - 120	P	01/06/2025	14:09	LB134187
	Beryllium	1.15	1.0	115	80 - 120	P	01/06/2025	14:09	LB134187
	Cadmium	1.07	1.0	107	80 - 120	P	01/06/2025	14:09	LB134187
	Calcium	556	500	111	80 - 120	P	01/06/2025	14:09	LB134187
	Chromium	2.15	2.0	108	80 - 120	P	01/06/2025	14:09	LB134187
	Cobalt	1.10	1.0	110	80 - 120	P	01/06/2025	14:09	LB134187
	Copper	2.05	2.0	102	80 - 120	P	01/06/2025	14:09	LB134187
	Iron	59.6	50.0	119	80 - 120	P	01/06/2025	14:09	LB134187
	Lead	1.00	1.0	100	80 - 120	P	01/06/2025	14:09	LB134187
	Magnesium	543	500	109	80 - 120	P	01/06/2025	14:09	LB134187
	Manganese	1.07	1.0	107	80 - 120	P	01/06/2025	14:09	LB134187
	Nickel	1.07	1.0	107	80 - 120	P	01/06/2025	14:09	LB134187
	Potassium	525	500	105	80 - 120	P	01/06/2025	14:09	LB134187
	Selenium	5.61	5.0	112	80 - 120	P	01/06/2025	14:09	LB134187
	Silver	1.10	1.0	110	80 - 120	P	01/06/2025	14:09	LB134187
	Sodium	518	500	104	80 - 120	P	01/06/2025	14:09	LB134187
	Thallium	0.99	1.0	99	80 - 120	P	01/06/2025	14:09	LB134187
	Vanadium	5.26	5.0	105	80 - 120	P	01/06/2025	14:09	LB134187
	Zinc	5.39	5.0	108	80 - 120	P	01/06/2025	14:09	LB134187

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5365
Contract: WEST04 Lab Code: CHEM Case No.: P5365 SAS No.: P5365
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	48800	50000	98	90 - 110	P	01/06/2025	14:34	LB134187
	Antimony	480	500	96	90 - 110	P	01/06/2025	14:34	LB134187
	Arsenic	478	500	96	90 - 110	P	01/06/2025	14:34	LB134187
	Barium	2420	2500	97	90 - 110	P	01/06/2025	14:34	LB134187
	Beryllium	470	500	94	90 - 110	P	01/06/2025	14:34	LB134187
	Cadmium	455	500	91	90 - 110	P	01/06/2025	14:34	LB134187
	Calcium	251000	250000	100	90 - 110	P	01/06/2025	14:34	LB134187
	Chromium	489	500	98	90 - 110	P	01/06/2025	14:34	LB134187
	Cobalt	476	500	95	90 - 110	P	01/06/2025	14:34	LB134187
	Copper	4650	5000	93	90 - 110	P	01/06/2025	14:34	LB134187
	Iron	126000	125000	101	90 - 110	P	01/06/2025	14:34	LB134187
	Lead	2490	2500	100	90 - 110	P	01/06/2025	14:34	LB134187
	Magnesium	246000	250000	98	90 - 110	P	01/06/2025	14:34	LB134187
	Manganese	4810	5000	96	90 - 110	P	01/06/2025	14:34	LB134187
	Nickel	469	500	94	90 - 110	P	01/06/2025	14:34	LB134187
	Potassium	121000	125000	97	90 - 110	P	01/06/2025	14:34	LB134187
	Selenium	469	500	94	90 - 110	P	01/06/2025	14:34	LB134187
	Silver	471	500	94	90 - 110	P	01/06/2025	14:34	LB134187
	Sodium	245000	250000	98	90 - 110	P	01/06/2025	14:34	LB134187
	Thallium	498	500	100	90 - 110	P	01/06/2025	14:34	LB134187
	Vanadium	485	500	97	90 - 110	P	01/06/2025	14:34	LB134187
	Zinc	4590	5000	92	90 - 110	P	01/06/2025	14:34	LB134187
CCV02	Aluminum	49700	50000	99	90 - 110	P	01/06/2025	15:35	LB134187
	Antimony	482	500	96	90 - 110	P	01/06/2025	15:35	LB134187
	Arsenic	483	500	96	90 - 110	P	01/06/2025	15:35	LB134187
	Barium	2440	2500	98	90 - 110	P	01/06/2025	15:35	LB134187
	Beryllium	491	500	98	90 - 110	P	01/06/2025	15:35	LB134187
	Cadmium	459	500	92	90 - 110	P	01/06/2025	15:35	LB134187
	Calcium	251000	250000	100	90 - 110	P	01/06/2025	15:35	LB134187
	Chromium	486	500	97	90 - 110	P	01/06/2025	15:35	LB134187
	Cobalt	481	500	96	90 - 110	P	01/06/2025	15:35	LB134187
	Copper	4680	5000	94	90 - 110	P	01/06/2025	15:35	LB134187
	Iron	128000	125000	102	90 - 110	P	01/06/2025	15:35	LB134187
	Lead	2510	2500	100	90 - 110	P	01/06/2025	15:35	LB134187

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5365
Contract: WEST04 Lab Code: CHEM Case No.: P5365 SAS No.: P5365
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	250000	250000	100	90 - 110	P	01/06/2025	15:35	LB134187
	Manganese	4850	5000	97	90 - 110	P	01/06/2025	15:35	LB134187
	Nickel	471	500	94	90 - 110	P	01/06/2025	15:35	LB134187
	Potassium	121000	125000	96	90 - 110	P	01/06/2025	15:35	LB134187
	Selenium	476	500	95	90 - 110	P	01/06/2025	15:35	LB134187
	Silver	474	500	95	90 - 110	P	01/06/2025	15:35	LB134187
	Sodium	247000	250000	99	90 - 110	P	01/06/2025	15:35	LB134187
	Thallium	502	500	100	90 - 110	P	01/06/2025	15:35	LB134187
	Vanadium	489	500	98	90 - 110	P	01/06/2025	15:35	LB134187
	Zinc	4630	5000	93	90 - 110	P	01/06/2025	15:35	LB134187



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

Metals

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CRDL STANDARD FOR AA & ICP

Client: Weston Solutions SDG No.: P5365
Contract: WEST04 Lab Code: CHEM Case No.: P5365 SAS No.: P5365
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
CRA	Mercury	0.19	0.2	97	40 - 160	CV	12/20/2024	14:22	LB134050
CRI	Aluminum	20.1	20.0	100	70 - 130	P	01/06/2025	14:54	LB134187
	Antimony	2.10	2.0	105	70 - 130	P	01/06/2025	14:54	LB134187
	Arsenic	1.18	1.0	118	70 - 130	P	01/06/2025	14:54	LB134187
	Barium	10.3	10.0	103	70 - 130	P	01/06/2025	14:54	LB134187
	Beryllium	1.06	1.0	106	70 - 130	P	01/06/2025	14:54	LB134187
	Cadmium	1.07	1.0	107	70 - 130	P	01/06/2025	14:54	LB134187
	Calcium	554	500	111	70 - 130	P	01/06/2025	14:54	LB134187
	Chromium	2.21	2.0	110	70 - 130	P	01/06/2025	14:54	LB134187
	Cobalt	1.11	1.0	111	50 - 150	P	01/06/2025	14:54	LB134187
	Copper	2.11	2.0	106	70 - 130	P	01/06/2025	14:54	LB134187
	Iron	59.2	50.0	118	70 - 130	P	01/06/2025	14:54	LB134187
	Lead	0.98	1.0	98	70 - 130	P	01/06/2025	14:54	LB134187
	Magnesium	551	500	110	70 - 130	P	01/06/2025	14:54	LB134187
	Manganese	1.13	1.0	113	50 - 150	P	01/06/2025	14:54	LB134187
	Nickel	1.12	1.0	112	70 - 130	P	01/06/2025	14:54	LB134187
	Potassium	528	500	106	70 - 130	P	01/06/2025	14:54	LB134187
	Selenium	5.32	5.0	106	70 - 130	P	01/06/2025	14:54	LB134187
	Silver	1.06	1.0	106	70 - 130	P	01/06/2025	14:54	LB134187
	Sodium	523	500	104	70 - 130	P	01/06/2025	14:54	LB134187
	Thallium	0.98	1.0	98	70 - 130	P	01/06/2025	14:54	LB134187
	Vanadium	5.21	5.0	104	70 - 130	P	01/06/2025	14:54	LB134187
	Zinc	5.47	5.0	109	50 - 150	P	01/06/2025	14:54	LB134187



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	Weston Solutions				SDG No.:	P5365				
Contract:	WEST04	Lab Code:	CHEM	Case No.:	P5365	SAS No.:	P5365			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB28	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/20/2024	14:15	LB134050

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>Weston Solutions</u>		SDG No.: <u>P5365</u>								
Contract: <u>WEST04</u>		Lab Code: <u>CHEM</u>		Case No.: <u>P5365</u>			SAS No.: <u>P5365</u>			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB57	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/20/2024	14:20	LB134050
CCB58	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/20/2024	14:45	LB134050
CCB59	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/20/2024	15:03	LB134050

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions SDG No.: P5365
Contract: WEST04 Lab Code: CHEM Case No.: P5365 SAS No.: P5365

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/06/2025	14:24	LB134187
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	01/06/2025	14:24	LB134187
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	14:24	LB134187
	Barium	10.0	+/-10.0	U	1.25	10.0	P	01/06/2025	14:24	LB134187
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	14:24	LB134187
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	14:24	LB134187
	Calcium	500	+/-500	U	190	500	P	01/06/2025	14:24	LB134187
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/06/2025	14:24	LB134187
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	14:24	LB134187
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/06/2025	14:24	LB134187
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/06/2025	14:24	LB134187
	Lead	1.00	+/-1.00	U	0.75	1.00	P	01/06/2025	14:24	LB134187
	Magnesium	500	+/-500	U	190	500	P	01/06/2025	14:24	LB134187
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	01/06/2025	14:24	LB134187
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	14:24	LB134187
	Potassium	500	+/-500	U	190	500	P	01/06/2025	14:24	LB134187
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/06/2025	14:24	LB134187
	Silver	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	14:24	LB134187
	Sodium	500	+/-500	U	190	500	P	01/06/2025	14:24	LB134187
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	14:24	LB134187
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/06/2025	14:24	LB134187
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/06/2025	14:24	LB134187

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions SDG No.: P5365
Contract: WEST04 Lab Code: CHEM Case No.: P5365 SAS No.: P5365

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	01/06/2025	14:41	LB134187
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	01/06/2025	14:41	LB134187
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	14:41	LB134187
	Barium	10.0	+/-10.0	U	1.25	10.0	P	01/06/2025	14:41	LB134187
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	14:41	LB134187
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	14:41	LB134187
	Calcium	500	+/-500	U	190	500	P	01/06/2025	14:41	LB134187
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/06/2025	14:41	LB134187
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	14:41	LB134187
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/06/2025	14:41	LB134187
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/06/2025	14:41	LB134187
	Lead	1.00	+/-1.00	U	0.75	1.00	P	01/06/2025	14:41	LB134187
	Magnesium	500	+/-500	U	190	500	P	01/06/2025	14:41	LB134187
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	01/06/2025	14:41	LB134187
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	14:41	LB134187
	Potassium	500	+/-500	U	190	500	P	01/06/2025	14:41	LB134187
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/06/2025	14:41	LB134187
	Silver	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	14:41	LB134187
	Sodium	500	+/-500	U	190	500	P	01/06/2025	14:41	LB134187
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	14:41	LB134187
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/06/2025	14:41	LB134187
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/06/2025	14:41	LB134187
CCB02	Aluminum	3.09	+/-20.0	J	10.0	20.0	P	01/06/2025	15:38	LB134187
	Antimony	0.13	+/-2.00	J	0.25	2.00	P	01/06/2025	15:38	LB134187
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	15:38	LB134187
	Barium	10.0	+/-10.0	U	1.25	10.0	P	01/06/2025	15:38	LB134187
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	15:38	LB134187
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	15:38	LB134187
	Calcium	500	+/-500	U	190	500	P	01/06/2025	15:38	LB134187
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	01/06/2025	15:38	LB134187
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	15:38	LB134187
	Copper	2.00	+/-2.00	U	1.50	2.00	P	01/06/2025	15:38	LB134187
	Iron	50.0	+/-50.0	U	25.0	50.0	P	01/06/2025	15:38	LB134187
	Lead	0.17	+/-1.00	J	0.75	1.00	P	01/06/2025	15:38	LB134187
	Magnesium	500	+/-500	U	190	500	P	01/06/2025	15:38	LB134187
	Manganese	0.32	+/-1.00	J	0.75	1.00	P	01/06/2025	15:38	LB134187
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	01/06/2025	15:38	LB134187
	Potassium	500	+/-500	U	190	500	P	01/06/2025	15:38	LB134187
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	01/06/2025	15:38	LB134187

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	15:38	LB134187
	Sodium	500	+/-500	U	190	500	P	01/06/2025	15:38	LB134187
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	01/06/2025	15:38	LB134187
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	01/06/2025	15:38	LB134187
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	01/06/2025	15:38	LB134187

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Weston Solutions

SDG No.: P5365

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165798BL		SOLID		Batch Number:		PB165798		Prep Date:	12/20/2024	
	Mercury	0.013	<0.013	U	0.010	0.013	CV	12/20/2024	14:29	LB134050

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Weston Solutions

SDG No.: P5365

Instrument: P7

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165957BL	SOLID			Batch Number:	PB165957			Prep Date:	01/06/2025	
	Aluminum	1.55	<1.55	U	0.78	1.55	P	01/06/2025	14:58	LB134187
	Antimony	0.16	<0.16	U	0.058	0.16	P	01/06/2025	14:58	LB134187
	Arsenic	0.078	<0.078	U	0.019	0.078	P	01/06/2025	14:58	LB134187
	Barium	0.78	<0.78	U	0.097	0.78	P	01/06/2025	14:58	LB134187
	Beryllium	0.078	<0.078	U	0.058	0.078	P	01/06/2025	14:58	LB134187
	Cadmium	0.078	<0.078	U	0.058	0.078	P	01/06/2025	14:58	LB134187
	Calcium	38.8	<38.8	U	14.7	38.8	P	01/06/2025	14:58	LB134187
	Chromium	0.16	<0.16	U	0.039	0.16	P	01/06/2025	14:58	LB134187
	Cobalt	0.078	<0.078	U	0.019	0.078	P	01/06/2025	14:58	LB134187
	Copper	0.16	<0.16	U	0.078	0.16	P	01/06/2025	14:58	LB134187
	Iron	3.88	<3.88	U	0.97	3.88	P	01/06/2025	14:58	LB134187
	Lead	0.078	<0.078	U	0.058	0.078	P	01/06/2025	14:58	LB134187
	Magnesium	38.8	<38.8	U	14.7	38.8	P	01/06/2025	14:58	LB134187
	Manganese	0.078	<0.078	U	0.039	0.078	P	01/06/2025	14:58	LB134187
	Nickel	0.078	<0.078	U	0.019	0.078	P	01/06/2025	14:58	LB134187
	Potassium	38.8	<38.8	U	14.7	38.8	P	01/06/2025	14:58	LB134187
	Selenium	0.39	<0.39	U	0.35	0.39	P	01/06/2025	14:58	LB134187
	Silver	0.078	<0.078	U	0.039	0.078	P	01/06/2025	14:58	LB134187
	Sodium	38.8	<38.8	U	19.4	38.8	P	01/06/2025	14:58	LB134187
	Thallium	0.078	<0.078	U	0.039	0.078	P	01/06/2025	14:58	LB134187
	Vanadium	0.39	<0.39	U	0.019	0.39	P	01/06/2025	14:58	LB134187
	Zinc	0.39	<0.39	U	0.12	0.39	P	01/06/2025	14:58	LB134187

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365
ICS Source: EPA **Instrument ID:** P7

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	Aluminum	90800	100000	91	0	0	01/06/2025	14:27	LB134187
	Antimony	1.12	1.5	75	-2.5	5.5	01/06/2025	14:27	LB134187
	Arsenic	0.29	0.1	290	-1.9	2.1	01/06/2025	14:27	LB134187
	Barium	1.34	1.2	112	-18.8	21.2	01/06/2025	14:27	LB134187
	Beryllium	0.32			-2	2	01/06/2025	14:27	LB134187
	Cadmium	0.31	0.7	44	-1.3	2.7	01/06/2025	14:27	LB134187
	Calcium	101000	100000	101	0	0	01/06/2025	14:27	LB134187
	Chromium	20.5	21.0	98	17	25	01/06/2025	14:27	LB134187
	Cobalt	1.32	1.0	132	-1	3	01/06/2025	14:27	LB134187
	Copper	7.48	8.0	94	4	12	01/06/2025	14:27	LB134187
	Iron	106000	100000	106	0	0	01/06/2025	14:27	LB134187
	Lead	4.73	4.0	118	2	6	01/06/2025	14:27	LB134187
	Magnesium	99700	100000	100	0	0	01/06/2025	14:27	LB134187
	Manganese	8.14	7.0	116	5	9	01/06/2025	14:27	LB134187
	Nickel	5.57	6.0	93	4	8	01/06/2025	14:27	LB134187
	Potassium	97900	100000	98	0	0	01/06/2025	14:27	LB134187
	Selenium	0.22	0.3	73	-9.7	10	01/06/2025	14:27	LB134187
	Silver	0.040			-2	2	01/06/2025	14:27	LB134187
	Sodium	101000	100000	101	0	0	01/06/2025	14:27	LB134187
	Thallium	0.16			-2	2	01/06/2025	14:27	LB134187
	Vanadium	0.22	0.5	44	-9.5	10.5	01/06/2025	14:27	LB134187
	Zinc	11.3	11.0	103	7	15	01/06/2025	14:27	LB134187
ICSAB01	Aluminum	89700	100000	90	0	0	01/06/2025	14:31	LB134187
	Antimony	20.9	22.0	95	18	26	01/06/2025	14:31	LB134187
	Arsenic	20.9	19.0	110	16.2	21.9	01/06/2025	14:31	LB134187
	Barium	20.8	22.0	94	2	42	01/06/2025	14:31	LB134187
	Beryllium	20.4	19.0	107	16.2	21.9	01/06/2025	14:31	LB134187
	Cadmium	19.7	20.0	98	17	23	01/06/2025	14:31	LB134187
	Calcium	102000	100000	102	0	0	01/06/2025	14:31	LB134187
	Chromium	40.3	40.0	101	34	46	01/06/2025	14:31	LB134187
	Cobalt	21.6	20.0	108	17	23	01/06/2025	14:31	LB134187
	Copper	26.2	25.0	105	21	29	01/06/2025	14:31	LB134187
	Iron	105000	100000	105	0	0	01/06/2025	14:31	LB134187
	Lead	23.8	25.0	95	21.3	28.8	01/06/2025	14:31	LB134187
	Magnesium	97900	100000	98	0	0	01/06/2025	14:31	LB134187
	Manganese	28.1	27.0	104	23	31.1	01/06/2025	14:31	LB134187
	Nickel	25.9	24.0	108	20.4	27.6	01/06/2025	14:31	LB134187
	Potassium	96500	100000	96	0	0	01/06/2025	14:31	LB134187
	Selenium	20.5	19.0	108	9	29	01/06/2025	14:31	LB134187
	Silver	18.9	18.0	105	15.3	20.7	01/06/2025	14:31	LB134187
	Sodium	99000	100000	99	0	0	01/06/2025	14:31	LB134187
	Thallium	19.8	21.0	94	17.9	24.2	01/06/2025	14:31	LB134187

Metals

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INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365
ICS Source: EPA **Instrument ID:** P7

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
ICSAB01	Vanadium	20.1	19.0	106	9	29	01/06/2025	14:31	LB134187
	Zinc	31.6	29.0	109	25	33	01/06/2025	14:31	LB134187



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** P5365
contract: WEST04 **lab code:** CHEM **case no.:** P5365 **sas no.:** P5365
matrix: Solid **sample id:** P5365-01 **client id:** TAPFTA-SB01I-4.5-121924-00-T1MS
Percent Solids for Sample: 90.1 **Spiked ID:** P5365-01MS **Percent Solids for Spike Sample:** 90.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	78 - 124	4110	D	4070	D	760	6		P
Antimony	mg/Kg	72 - 124	47.1	D	0.077	JD	37.8	124		P
Arsenic	mg/Kg	82 - 118	51.0	D	1.61	D	37.8	131	N	P
Barium	mg/Kg	86 - 116	249	D	19.4	D	190	122	N	P
Beryllium	mg/Kg	80 - 120	49.1	D	0.31	JD	37.8	129	N	P
Cadmium	mg/Kg	84 - 116	50.5	D	0.43	UD	37.8	134	N	P
Calcium	mg/Kg	86 - 118	4070	D	304	D	3800	100		P
Chromium	mg/Kg	83 - 119	54.6	D	9.40	D	37.8	120	N	P
Cobalt	mg/Kg	84 - 115	51.7	D	3.51	D	37.8	128	N	P
Copper	mg/Kg	84 - 119	391	D	5.53	D	380	102		P
Iron	mg/Kg	81 - 124	10200	D	9450	D	1900	41		P
Lead	mg/Kg	84 - 118	183	D	3.12	D	190	95		P
Magnesium	mg/Kg	80 - 123	4400	D	887	D	3800	93		P
Manganese	mg/Kg	85 - 116	443	D	112	D	380	88		P
Nickel	mg/Kg	84 - 119	52.5	D	4.47	D	37.8	127	N	P
Mercury	mg/Kg	80 - 124	0.29		0.0080	J	0.29	99		CV
Potassium	mg/Kg	85 - 119	2910	D	777	D	1900	113		P
Selenium	mg/Kg	80 - 119	48.9	D	2.13	UD	37.8	129	N	P
Silver	mg/Kg	83 - 118	0.12	JD	0.43	UD	37.8	0	N	P
Sodium	mg/Kg	79 - 125	3710	D	41.4	JD	3800	97		P
Thallium	mg/Kg	83 - 118	47.1	D	0.10	JD	37.8	124	N	P
Vanadium	mg/Kg	82 - 116	59.5	D	14.3	D	37.8	120	N	P
Zinc	mg/Kg	82 - 119	380	D	11.7	D	380	98		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** P5365
contract: WEST04 **lab code:** CHEM **case no.:** P5365 **sas no.:** P5365
matrix: Solid **sample id:** P5365-01 **client id:** TAPFTA-SB01I-4.5-121924-00-T1MSD
Percent Solids for Sample: 90.1 **Spiked ID:** P5365-01MSD **Percent Solids for Spike Sample:** 90.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	78 - 124	4770	D	4070	D	880	80		P
Antimony	mg/Kg	72 - 124	54.6	D	0.077	JD	44.0	124		P
Arsenic	mg/Kg	82 - 118	58.7	D	1.61	D	44.0	130	N	P
Barium	mg/Kg	86 - 116	290	D	19.4	D	220	123	N	P
Beryllium	mg/Kg	80 - 120	56.5	D	0.31	JD	44.0	127	N	P
Cadmium	mg/Kg	84 - 116	58.5	D	0.43	UD	44.0	133	N	P
Calcium	mg/Kg	86 - 118	4660	D	304	D	4400	99		P
Chromium	mg/Kg	83 - 119	63.2	D	9.40	D	44.0	122	N	P
Cobalt	mg/Kg	84 - 115	59.6	D	3.51	D	44.0	127	N	P
Copper	mg/Kg	84 - 119	452	D	5.53	D	440	101		P
Iron	mg/Kg	81 - 124	11800	D	9450	D	2200	105		P
Lead	mg/Kg	84 - 118	212	D	3.12	D	220	95		P
Magnesium	mg/Kg	80 - 123	5080	D	887	D	4400	95		P
Manganese	mg/Kg	85 - 116	515	D	112	D	440	91		P
Nickel	mg/Kg	84 - 119	61.0	D	4.47	D	44.0	128	N	P
Mercury	mg/Kg	80 - 124	0.30		0.0080	J	0.28	106		CV
Potassium	mg/Kg	85 - 119	3360	D	777	D	2200	117		P
Selenium	mg/Kg	80 - 119	56.8	D	2.13	UD	44.0	129	N	P
Silver	mg/Kg	83 - 118	0.14	JD	0.43	UD	44.0	0	N	P
Sodium	mg/Kg	79 - 125	4310	D	41.4	JD	4400	97		P
Thallium	mg/Kg	83 - 118	54.9	D	0.10	JD	44.0	124	N	P
Vanadium	mg/Kg	82 - 116	69.2	D	14.3	D	44.0	125	N	P
Zinc	mg/Kg	82 - 119	441	D	11.7	D	440	97		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365
Matrix: Solid **Level:** LOW **Client ID:** TAPFTA-SB01I-4.5-121924-00-T1A
Sample ID: P5365-01 **Spiked ID:** P5365-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	82 - 118	57.3	D	1.61	D	42.7	130		P
Barium	mg/Kg	86 - 116	282	D	19.4	D	210	125		P
Beryllium	mg/Kg	80 - 120	55.6	D	0.31	JD	42.7	130		P
Cadmium	mg/Kg	84 - 116	56.6	D	0.43	UD	42.7	133		P
Chromium	mg/Kg	83 - 119	61.4	D	9.40	D	42.7	122		P
Cobalt	mg/Kg	84 - 115	57.9	D	3.51	D	42.7	127		P
Nickel	mg/Kg	84 - 119	59.1	D	4.47	D	42.7	128		P
Selenium	mg/Kg	80 - 119	55.6	D	2.13	UD	42.7	130		P
Silver	mg/Kg	83 - 118	0.13	JD	0.43	UD	42.7	0		P
Thallium	mg/Kg	83 - 118	51.9	D	0.10	JD	42.7	121		P
Vanadium	mg/Kg	82 - 116	66.8	D	14.3	D	42.7	123		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365
Matrix: Solid **Sample ID:** P5365-01 **Client ID:** TAPFTA-SB01I-4.5-121924-00-T1DUP
Percent Solids for Sample: 90.1 **Duplicate ID** P5365-01DUP **Percent Solids for Spike Sample:** 90.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4070	D	3750	D	8		P
Antimony	mg/Kg	20	0.077	JD	0.79	UD	200		P
Arsenic	mg/Kg	20	1.61	D	1.54	D	4		P
Barium	mg/Kg	20	19.4	D	18.3	D	6		P
Beryllium	mg/Kg	20	0.31	JD	0.27	JD	13		P
Cadmium	mg/Kg	20	0.43	UD	0.40	UD			P
Calcium	mg/Kg	20	304	D	284	D	7		P
Chromium	mg/Kg	20	9.40	D	8.74	D	7		P
Cobalt	mg/Kg	20	3.51	D	3.25	D	8		P
Copper	mg/Kg	20	5.53	D	5.03	D	9		P
Iron	mg/Kg	20	9450	D	8810	D	7		P
Lead	mg/Kg	20	3.12	D	2.87	D	8		P
Magnesium	mg/Kg	20	887	D	817	D	8		P
Manganese	mg/Kg	20	112	D	104	D	7		P
Nickel	mg/Kg	20	4.47	D	4.07	D	9		P
Mercury	mg/Kg	20	0.0080	J	0.0080	J	0		CV
Potassium	mg/Kg	20	777	D	724	D	7		P
Selenium	mg/Kg	20	2.13	UD	1.98	UD			P
Silver	mg/Kg	20	0.43	UD	0.40	UD			P
Sodium	mg/Kg	20	41.4	JD	36.2	JD	13		P
Thallium	mg/Kg	20	0.10	JD	0.075	JD	31		P
Vanadium	mg/Kg	20	14.3	D	13.1	D	9		P
Zinc	mg/Kg	20	11.7	D	10.6	D	10		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365
Matrix: Solid **Sample ID:** P5365-01MS **Client ID:** TAPFTA-SB01I-4.5-121924-00-T1MSD
Percent Solids for Sample: 90.1 **Duplicate ID** P5365-01MSD **Percent Solids for Spike Sample:** 90.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4110	D	4770	D	15		P
Antimony	mg/Kg	20	47.1	D	54.6	D	15		P
Arsenic	mg/Kg	20	51.0	D	58.7	D	14		P
Barium	mg/Kg	20	249	D	290	D	15		P
Beryllium	mg/Kg	20	49.1	D	56.5	D	14		P
Cadmium	mg/Kg	20	50.5	D	58.5	D	15		P
Calcium	mg/Kg	20	4070	D	4660	D	14		P
Chromium	mg/Kg	20	54.6	D	63.2	D	15		P
Cobalt	mg/Kg	20	51.7	D	59.6	D	14		P
Copper	mg/Kg	20	391	D	452	D	14		P
Iron	mg/Kg	20	10200	D	11800	D	15		P
Lead	mg/Kg	20	183	D	212	D	15		P
Magnesium	mg/Kg	20	4400	D	5080	D	14		P
Manganese	mg/Kg	20	443	D	515	D	15		P
Nickel	mg/Kg	20	52.5	D	61.0	D	15		P
Mercury	mg/Kg	20	0.29		0.30		3		CV
Potassium	mg/Kg	20	2910	D	3360	D	14		P
Selenium	mg/Kg	20	48.9	D	56.8	D	15		P
Silver	mg/Kg	20	0.12	JD	0.14	JD	12		P
Sodium	mg/Kg	20	3710	D	4310	D	15		P
Thallium	mg/Kg	20	47.1	D	54.9	D	15		P
Vanadium	mg/Kg	20	59.5	D	69.2	D	15		P
Zinc	mg/Kg	20	380	D	441	D	15		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions

SDG No.: P5365

Contract: WEST04

Lab Code: CHEM

Case No.: P5365

SAS No.: P5365

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165798BS Mercury	mg/Kg	0.25	0.26		106	80 - 124	CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5365 **SAS No.:** P5365

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165957BS							
Aluminum	mg/Kg	780	772		99	78 - 124	P
Antimony	mg/Kg	38.8	41.2		106	72 - 124	P
Arsenic	mg/Kg	38.8	39.1		101	82 - 118	P
Barium	mg/Kg	190	207		109	86 - 116	P
Beryllium	mg/Kg	38.8	41.9		108	80 - 120	P
Cadmium	mg/Kg	38.8	40.6		105	84 - 116	P
Calcium	mg/Kg	3900	4230		108	86 - 118	P
Chromium	mg/Kg	38.8	39.1		101	83 - 119	P
Cobalt	mg/Kg	38.8	39.9		103	84 - 115	P
Copper	mg/Kg	390	398		102	84 - 119	P
Iron	mg/Kg	1900	2070		109	81 - 124	P
Lead	mg/Kg	190	207		109	84 - 118	P
Magnesium	mg/Kg	3900	3900		100	80 - 123	P
Manganese	mg/Kg	390	390		100	85 - 116	P
Nickel	mg/Kg	38.8	39.6		102	84 - 119	P
Potassium	mg/Kg	1900	1910		100	85 - 119	P
Selenium	mg/Kg	38.8	41.8		108	80 - 119	P
Silver	mg/Kg	38.8	42.4		109	83 - 118	P
Sodium	mg/Kg	3900	4000		103	79 - 125	P
Thallium	mg/Kg	38.8	41.3		106	83 - 118	P
Vanadium	mg/Kg	38.8	39.2		101	82 - 116	P
Zinc	mg/Kg	390	398		102	82 - 119	P

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions

Contract: WEST04

Lab Code: CHEM Case no.: P5365

Sas No.: P5365 SDG No.: P5365

Instrument ID: P7

Start Date : 01/06/2025

Run Number: LB134187

End Date : 01/06/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1315	100		100		100		100		100	
S2	S2	1319	102		100		100		99		100	
S3	S3	1325	106		100		99		98		101	
S4	S4	1328	109		96		97		96		101	
S5	S5	1331	111		92		95		92		101	
S6	S6	1334	111		88		91		88		100	
S7	S7	1336	110		87		91		86		98	
S8	S8	1339	114		91		89		79		91	
ICV01	ICV01	1405	116		98		100		99		104	
LLICV01	LLICV01	1409	112		97		98		97		101	
ICB01	ICB01	1424	112		99		99		98		102	
ICSA01	ICSA01	1427	113		92		96		89		103	
ICSAB01	ICSAB01	1431	111		93		97		91		106	
CCV01	CCV01	1434	109		90		94		86		101	
CCB01	CCB01	1441	113		95		98		97		104	
CRI	CRI	1454	112		100		100		100		106	
PB165957BL	PB165957BL	1458	110		99		100		99		105	
PB165957BS	PB165957BS	1501	105		88		91		87		98	
P5365-01	TAPFTA-SB01	1503	117		95		99		96		106	
P5365-01DUP	TAPFTA-SB01	1507	116		96		100		96		105	
P5365-01L	TAPFTA-SB01	1510	114		98		101		100		108	
P5365-01MS	TAPFTA-SB01	1513	115		98		103		98		107	
P5365-01MSD	TAPFTA-SB01	1516	115		99		103		99		107	
P5365-01A	TAPFTA-SB01	1519	113		99		102		98		106	
CCV02	CCV02	1535	109		90		92		84		100	
CCB02	CCB02	1538	118		93		97		96		105	

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions

Contract: WEST04

Lab Code: CHEM Case no.: P5365

Sas No.: P5365 SDG No.: P5365

Instrument ID: P7

Start Date : 01/06/2025

Run Number: LB134187

End Date : 01/06/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1315	100		100		100		100		100	
S2	S2	1319	100		99		100		101		100	
S3	S3	1325	95		97		97		100		100	
S4	S4	1328	90		93		92		99		99	
S5	S5	1331	85		89		89		98		99	
S6	S6	1334	81		86		86		97		98	
S7	S7	1336	81		85		84		98		98	
S8	S8	1339	86		86		79		93		94	
ICV01	ICV01	1405	92		95		96		101		100	
LLICV01	LLICV01	1409	93		96		97		100		101	
ICB01	ICB01	1424	96		98		99		101		101	
ICSA01	ICSA01	1427	85		90		88		102		102	
ICSAB01	ICSAB01	1431	85		90		89		101		102	
CCV01	CCV01	1434	85		88		84		99		99	
CCB01	CCB01	1441	89		92		96		101		102	
CRI	CRI	1454	94		97		99		102		102	
PB165957BL	PB165957BL	1458	94		97		99		102		103	
PB165957BS	PB165957BS	1501	83		87		88		99		101	
P5365-01	TAPFTA-SB01	1503	90		95		96		102		104	
P5365-01DUP	TAPFTA-SB01	1507	91		96		97		103		104	
P5365-01L	TAPFTA-SB01	1510	91		96		98		103		104	
P5365-01MS	TAPFTA-SB01	1513	93		97		96		104		104	
P5365-01MSD	TAPFTA-SB01	1516	92		96		96		103		104	
P5365-01A	TAPFTA-SB01	1519	91		96		96		104		104	
CCV02	CCV02	1535	83		87		83		98		99	
CCB02	CCB02	1538	87		92		95		102		102	

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions

Contract: WEST04

Lab Code: CHEM Case no.: P5365

Sas No.: P5365 SDG No.: P5365

Instrument ID: P7

Start Date : 01/06/2025

Run Number: LB134187

End Date : 01/06/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1315	100		100							
S2	S2	1319	99		100							
S3	S3	1325	101		102							
S4	S4	1328	101		103							
S5	S5	1331	100		103							
S6	S6	1334	100		102							
S7	S7	1336	100		102							
S8	S8	1339	92		84							
ICV01	ICV01	1405	104		108							
LLICV01	LLICV01	1409	101		105							
ICB01	ICB01	1424	103		104							
ICSA01	ICSA01	1427	105		103							
ICSAB01	ICSAB01	1431	107		105							
CCV01	CCV01	1434	103		100							
CCB01	CCB01	1441	105		109							
CRI	CRI	1454	104		109							
PB165957BL	PB165957BL	1458	105		108							
PB165957BS	PB165957BS	1501	97		99							
P5365-01	TAPFTA-SB011	1503	106		111							
P5365-01DUP	TAPFTA-SB011	1507	106		108							
P5365-01L	TAPFTA-SB011	1510	107		111							
P5365-01MS	TAPFTA-SB011	1513	107		109							
P5365-01MSD	TAPFTA-SB011	1516	108		109							
P5365-01A	TAPFTA-SB011	1519	107		111							
CCV02	CCV02	1535	101		99							
CCB02	CCB02	1538	106		110							

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions

Contract: WEST04

Lab Code: CHEM Case no.: P5365

Sas No.: P5365 SDG No.: P5365

Instrument ID: P7

Start Date : 01/06/2025

Run Number: LB134187

End Date : 01/06/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1315	100									
S2	S2	1319	101									
S3	S3	1325	101									
S4	S4	1328	100									
S5	S5	1331	100									
S6	S6	1334	98									
S7	S7	1336	96									
S8	S8	1339	85									
ICV01	ICV01	1405	103									
LLICV01	LLICV01	1409	103									
ICB01	ICB01	1424	103									
ICSA01	ICSA01	1427	99									
ICSAB01	ICSAB01	1431	98									
CCV01	CCV01	1434	94									
CCB01	CCB01	1441	105									
CRI	CRI	1454	105									
PB165957BL	PB165957BL	1458	104									
PB165957BS	PB165957BS	1501	100									
P5365-01	TAPFTA-SB011	1503	106									
P5365-01DUP	TAPFTA-SB011	1507	106									
P5365-01L	TAPFTA-SB011	1510	107									
P5365-01MS	TAPFTA-SB011	1513	104									
P5365-01MSD	TAPFTA-SB011	1516	105									
P5365-01A	TAPFTA-SB011	1519	104									
CCV02	CCV02	1535	94									
CCB02	CCB02	1538	105									

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TAPFTA-SB01I-4.5-121924-00-T1L

Lab Name: Chemtech Consulting Group **Contract:** WEST04
Lab Code: CHEM **Lb No.:** lb134187 **Lab Sample ID :** P5365-01L **SDG No.:** P5365
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence	Q	M
		C		C			
Aluminum	4070	D	3950	D	3		P
Antimony	0.077	JD	4.27	UD	44		P
Arsenic	1.61	D	1.54	JD	5		P
Barium	19.4	D	19.0	JD	2		P
Beryllium	0.31	JD	2.13	UD	4		P
Cadmium	0.43	UD	2.13	UD			P
Calcium	304	D	297	JD	2		P
Chromium	9.40	D	9.69	D	3		P
Cobalt	3.51	D	3.50	D	0		P
Copper	5.53	D	5.44	D	2		P
Iron	9450	D	9660	D	2		P
Lead	3.12	D	3.05	D	2		P
Magnesium	887	D	889	JD	0		P
Manganese	112	D	115	D	2		P
Nickel	4.47	D	4.29	D	4		P
Mercury	0.0080	J	0.066	U	100.0		CV
Potassium	777	D	774	JD	0		P
Selenium	2.13	UD	10.7	UD	100		P
Silver	0.43	UD	2.13	UD	55		P
Sodium	41.4	JD	1070	UD	31		P
Thallium	0.10	JD	2.13	UD	17		P
Vanadium	14.3	D	14.5	D	2		P
Zinc	11.7	D	11.5	D	1		P



METAL PREPARATION & INSTRUMENT DATA



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Method:**
Case No.: P5365 **SAS No.:** P5365

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165798							
P5365-01	TAPFTA-SB01I-4.5-121924-00-T1	SAM	SOLID	12/20/2024	0.59	35.0	90.10
P5365-01DUP	TAPFTA-SB01I-4.5-121924-00-T1DUP	DUP	SOLID	12/20/2024	0.58	35.0	90.10
P5365-01MS	TAPFTA-SB01I-4.5-121924-00-T1MS	MS	SOLID	12/20/2024	0.54	35.0	90.10
P5365-01MSD	TAPFTA-SB01I-4.5-121924-00-T1MSD	MSD	SOLID	12/20/2024	0.56	35.0	90.10
PB165798BL	PB165798BL	MB	SOLID	12/20/2024	0.54	35.0	100.00
PB165798BS	PB165798BS	LCS	SOLID	12/20/2024	0.57	35.0	100.00

Metals

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SAMPLE PREPARATION SUMMARY

Client: Weston Solutions **SDG No.:** P5365
Contract: WEST04 **Lab Code:** CHEM **Method:**
Case No.: P5365 **SAS No.:** P5365

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165957							
P5365-01	TAPFTA-SB01I-4.5-121924-00-T1	SAM	SOLID	01/06/2025	1.30	100.0	90.10
P5365-01DUP	TAPFTA-SB01I-4.5-121924-00-T1DUP	DUP	SOLID	01/06/2025	1.40	100.0	90.10
P5365-01MS	TAPFTA-SB01I-4.5-121924-00-T1MS	MS	SOLID	01/06/2025	1.47	100.0	90.10
P5365-01MSD	TAPFTA-SB01I-4.5-121924-00-T1MSD	MSD	SOLID	01/06/2025	1.26	100.0	90.10
PB165957BL	PB165957BL	MB	SOLID	01/06/2025	1.29	100.0	100.00
PB165957BS	PB165957BS	LCS	SOLID	01/06/2025	1.29	100.0	100.00

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ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** P5365 **Sas no.:** P5365 **Sdg no.:** P5365

Instrument id number: **Method:** **Run number:** LB134050

Start date: 12/20/2024 **End date:** 12/20/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1358	HG
S0.2	S0.2	1	1400	HG
S2.5	S2.5	1	1403	HG
S5	S5	1	1405	HG
S7.5	S7.5	1	1407	HG
S10	S10	1	1410	HG
ICV28	ICV28	1	1413	HG
ICB28	ICB28	1	1415	HG
CCV57	CCV57	1	1417	HG
CCB57	CCB57	1	1420	HG
CRA	CRA	1	1422	HG
PB165798BL	PB165798BL	1	1429	HG
PB165798BS	PB165798BS	1	1431	HG
CCV58	CCV58	1	1443	HG
CCB58	CCB58	1	1445	HG
P5365-01	TAPFTA-SB01I-4.5-121924-00-'	1	1447	HG
P5365-01DUP	TAPFTA-SB01I-4.5-121924-00-'	1	1450	HG
P5365-01MS	TAPFTA-SB01I-4.5-121924-00-'	1	1452	HG
P5365-01MSD	TAPFTA-SB01I-4.5-121924-00-'	1	1454	HG
P5365-01L	TAPFTA-SB01I-4.5-121924-00-'	5	1456	HG
CCV59	CCV59	1	1501	HG
CCB59	CCB59	1	1503	HG

metals
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ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** P5365 **Sas no.:** P5365 **Sdg no.:** P5365

Instrument id number: **Method:** **Run number:** LB134187

Start date: 01/06/2025 **End date:** 01/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1315	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1319	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1325	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1328	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1331	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1336	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1339	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1409	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1424	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1427	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1434	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1454	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165957BL	PB165957BL	1	1458	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165957BS	PB165957BS	1	1501	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5365-01	TAPFTA-SB01I-4.5-121924-00-'	5	1503	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5365-01DUP	TAPFTA-SB01I-4.5-121924-00-'	5	1507	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5365-01L	TAPFTA-SB01I-4.5-121924-00-'	25	1510	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5365-01MS	TAPFTA-SB01I-4.5-121924-00-'	5	1513	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5365-01MSD	TAPFTA-SB01I-4.5-121924-00-'	5	1516	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5365-01A	TAPFTA-SB01I-4.5-121924-00-'	5	1519	Ag,As,Ba,Be,Cd,Co,Cr,Ni,Se,Tl,V
CCV02	CCV02	1	1535	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1538	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn