

LAB CHRONICLE

OrderID:	Q1381	OrderDate:	2/18/2025 10:49:00 AM
Client:	RSB Environmental	Project:	EBR Motors
Contact:	Efrain Trejo	Location:	H31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1381-01	OUTFALL-001	Water			02/11/25			02/18/25
			Mercury	7470A		02/20/25	02/20/25	
			Metals ICP-Group1	6010D		02/19/25	03/04/25	
Q1381-02	OUTFALL-002	Water			02/11/25			02/18/25
			Mercury	7470A		02/20/25	02/20/25	
			Metals ICP-Group1	6010D		02/19/25	03/04/25	

Hit Summary Sheet
SW-846

SDG No.: Q1381
Client: RSB Environmental

Order ID: Q1381
Project ID: EBR Motors

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : OUTFALL-001								
Q1381-01	OUTFALL-001	Water	Aluminum	2160		28.3	50.0	ug/L
Q1381-01	OUTFALL-001	Water	Barium	29.4	J	6.28	50.0	ug/L
Q1381-01	OUTFALL-001	Water	Cadmium	0.26	J	0.094	3.00	ug/L
Q1381-01	OUTFALL-001	Water	Chromium	5.82		0.66	5.00	ug/L
Q1381-01	OUTFALL-001	Water	Copper	69.1		7.07	10.0	ug/L
Q1381-01	OUTFALL-001	Water	Iron	1070		18.5	50.0	ug/L
Q1381-01	OUTFALL-001	Water	Lead	25.3		3.51	6.00	ug/L
Q1381-01	OUTFALL-001	Water	Manganese	30.0		1.46	10.0	ug/L
Q1381-01	OUTFALL-001	Water	Nickel	4.69	J	0.85	20.0	ug/L
Q1381-01	OUTFALL-001	Water	Zinc	348		1.75	20.0	ug/L
Client ID : OUTFALL-002								
Q1381-02	OUTFALL-002	Water	Aluminum	8150		28.3	50.0	ug/L
Q1381-02	OUTFALL-002	Water	Arsenic	3.52	J	3.48	10.0	ug/L
Q1381-02	OUTFALL-002	Water	Barium	170		6.28	50.0	ug/L
Q1381-02	OUTFALL-002	Water	Cadmium	0.25	J	0.094	3.00	ug/L
Q1381-02	OUTFALL-002	Water	Chromium	36.5		0.66	5.00	ug/L
Q1381-02	OUTFALL-002	Water	Copper	59.7		7.07	10.0	ug/L
Q1381-02	OUTFALL-002	Water	Iron	5650		18.5	50.0	ug/L
Q1381-02	OUTFALL-002	Water	Lead	32.2		3.51	6.00	ug/L
Q1381-02	OUTFALL-002	Water	Manganese	152		1.46	10.0	ug/L
Q1381-02	OUTFALL-002	Water	Nickel	16.4	J	0.85	20.0	ug/L
Q1381-02	OUTFALL-002	Water	Zinc	324		1.75	20.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	RSB Environmental	Date Collected:	02/11/25
Project:	EBR Motors	Date Received:	02/18/25
Client Sample ID:	OUTFALL-001	SDG No.:	Q1381
Lab Sample ID:	Q1381-01	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.
7429-90-5	Aluminum	2160		1	28.3	50.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7440-39-3	Barium	29.4	J	1	6.28	50.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7440-43-9	Cadmium	0.26	J	1	0.094	3.00	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7440-47-3	Chromium	5.82	*	1	0.66	5.00	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7440-50-8	Copper	69.1		1	7.07	10.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7439-89-6	Iron	1070	N*	1	18.5	50.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7439-92-1	Lead	25.3		1	3.51	6.00	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7439-96-5	Manganese	30.0		1	1.46	10.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	02/20/25 10:30	02/20/25 13:26	SW7470A	
7440-02-0	Nickel	4.69	J*	1	0.85	20.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010
7440-66-6	Zinc	348		1	1.75	20.0	ug/L	02/19/25 10:05	03/04/25 13:00	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group1			

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

Report of Analysis

Client:	RSB Environmental	Date Collected:	02/11/25
Project:	EBR Motors	Date Received:	02/18/25
Client Sample ID:	OUTFALL-002	SDG No.:	Q1381
Lab Sample ID:	Q1381-02	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.
7429-90-5	Aluminum	8150		1	28.3	50.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7440-38-2	Arsenic	3.52	J	1	3.48	10.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7440-39-3	Barium	170		1	6.28	50.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7440-43-9	Cadmium	0.25	J	1	0.094	3.00	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7440-47-3	Chromium	36.5	*	1	0.66	5.00	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7440-50-8	Copper	59.7		1	7.07	10.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7439-89-6	Iron	5650	N*	1	18.5	50.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7439-92-1	Lead	32.2		1	3.51	6.00	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7439-96-5	Manganese	152		1	1.46	10.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	02/20/25 10:30	02/20/25 13:28	SW7470A	
7440-02-0	Nickel	16.4	J*	1	0.85	20.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010
7440-66-6	Zinc	324		1	1.75	20.0	ug/L	02/19/25 10:05	03/04/25 13:04	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group1			

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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
ICV11	Mercury	3.89	4.0	97	90 - 110	CV	02/20/2025	12:23	LB134760

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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
CCV91	Mercury	5.21	5.0	104	90 - 110	CV	02/20/2025	12:30	LB134760
CCV92	Mercury	5.12	5.0	102	90 - 110	CV	02/20/2025	13:12	LB134760
CCV93	Mercury	4.81	5.0	96	90 - 110	CV	02/20/2025	13:42	LB134760
CCV94	Mercury	4.98	5.0	100	90 - 110	CV	02/20/2025	14:06	LB134760

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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	Aluminum	2500	2500	100	90 - 110	P	03/04/2025	10:07	LB134892
	Arsenic	1030	1000	103	90 - 110	P	03/04/2025	10:07	LB134892
	Barium	484	520	93	90 - 110	P	03/04/2025	10:07	LB134892
	Cadmium	501	510	98	90 - 110	P	03/04/2025	10:07	LB134892
	Chromium	521	520	100	90 - 110	P	03/04/2025	10:07	LB134892
	Copper	523	510	103	90 - 110	P	03/04/2025	10:07	LB134892
	Iron	9620	10000	96	90 - 110	P	03/04/2025	10:07	LB134892
	Lead	1010	1000	101	90 - 110	P	03/04/2025	10:07	LB134892
	Manganese	500	520	96	90 - 110	P	03/04/2025	10:07	LB134892
	Nickel	511	530	96	90 - 110	P	03/04/2025	10:07	LB134892
	Selenium	1030	1000	103	90 - 110	P	03/04/2025	10:07	LB134892
	Silver	252	250	101	90 - 110	P	03/04/2025	10:07	LB134892
	Zinc	1020	1000	102	90 - 110	P	03/04/2025	10:07	LB134892

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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	Aluminum	104	100	104	80 - 120	P	03/04/2025	10:13	LB134892
	Arsenic	19.6	20.0	98	80 - 120	P	03/04/2025	10:13	LB134892
	Barium	93.1	100	93	80 - 120	P	03/04/2025	10:13	LB134892
	Cadmium	5.93	6.0	99	80 - 120	P	03/04/2025	10:13	LB134892
	Chromium	10.0	10.0	100	80 - 120	P	03/04/2025	10:13	LB134892
	Copper	22.5	20.0	112	80 - 120	P	03/04/2025	10:13	LB134892
	Iron	101	100	101	80 - 120	P	03/04/2025	10:13	LB134892
	Lead	11.9	12.0	99	80 - 120	P	03/04/2025	10:13	LB134892
	Manganese	20.9	20.0	104	80 - 120	P	03/04/2025	10:13	LB134892
	Nickel	39.1	40.0	98	80 - 120	P	03/04/2025	10:13	LB134892
	Selenium	17.7	20.0	89	80 - 120	P	03/04/2025	10:13	LB134892
	Silver	10.4	10.0	104	80 - 120	P	03/04/2025	10:13	LB134892
	Zinc	42.4	40.0	106	80 - 120	P	03/04/2025	10:13	LB134892

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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	Aluminum	10200	10000	102	90 - 110	P	03/04/2025	10:43	LB134892
	Arsenic	5150	5000	103	90 - 110	P	03/04/2025	10:43	LB134892
	Barium	9920	10000	99	90 - 110	P	03/04/2025	10:43	LB134892
	Cadmium	2540	2500	102	90 - 110	P	03/04/2025	10:43	LB134892
	Chromium	1040	1000	104	90 - 110	P	03/04/2025	10:43	LB134892
	Copper	1290	1250	103	90 - 110	P	03/04/2025	10:43	LB134892
	Iron	5110	5000	102	90 - 110	P	03/04/2025	10:43	LB134892
	Lead	5100	5000	102	90 - 110	P	03/04/2025	10:43	LB134892
	Manganese	2430	2500	97	90 - 110	P	03/04/2025	10:43	LB134892
	Nickel	2550	2500	102	90 - 110	P	03/04/2025	10:43	LB134892
	Selenium	5180	5000	104	90 - 110	P	03/04/2025	10:43	LB134892
	Silver	1280	1250	103	90 - 110	P	03/04/2025	10:43	LB134892
	Zinc	2610	2500	104	90 - 110	P	03/04/2025	10:43	LB134892
CCV02	Aluminum	9880	10000	99	90 - 110	P	03/04/2025	11:34	LB134892
	Arsenic	4960	5000	99	90 - 110	P	03/04/2025	11:34	LB134892
	Barium	9590	10000	96	90 - 110	P	03/04/2025	11:34	LB134892
	Cadmium	2450	2500	98	90 - 110	P	03/04/2025	11:34	LB134892
	Chromium	1010	1000	101	90 - 110	P	03/04/2025	11:34	LB134892
	Copper	1260	1250	101	90 - 110	P	03/04/2025	11:34	LB134892
	Iron	4840	5000	97	90 - 110	P	03/04/2025	11:34	LB134892
	Lead	4910	5000	98	90 - 110	P	03/04/2025	11:34	LB134892
	Manganese	2340	2500	94	90 - 110	P	03/04/2025	11:34	LB134892
	Nickel	2450	2500	98	90 - 110	P	03/04/2025	11:34	LB134892
	Selenium	4990	5000	100	90 - 110	P	03/04/2025	11:34	LB134892
	Silver	1240	1250	99	90 - 110	P	03/04/2025	11:34	LB134892
	Zinc	2520	2500	101	90 - 110	P	03/04/2025	11:34	LB134892
CCV03	Aluminum	9840	10000	98	90 - 110	P	03/04/2025	12:26	LB134892
	Arsenic	4980	5000	100	90 - 110	P	03/04/2025	12:26	LB134892
	Barium	9750	10000	98	90 - 110	P	03/04/2025	12:26	LB134892
	Cadmium	2470	2500	99	90 - 110	P	03/04/2025	12:26	LB134892
	Chromium	1010	1000	101	90 - 110	P	03/04/2025	12:26	LB134892
	Copper	1270	1250	101	90 - 110	P	03/04/2025	12:26	LB134892
	Iron	5010	5000	100	90 - 110	P	03/04/2025	12:26	LB134892
	Lead	4940	5000	99	90 - 110	P	03/04/2025	12:26	LB134892

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RSB Environmental SDG No.: Q1381
Contract: RSBE01 Lab Code: CHEM Case No.: Q1381 SAS No.: Q1381
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
CCV03	Manganese	2400	2500	96	90 - 110	P	03/04/2025	12:26	LB134892
	Nickel	2470	2500	99	90 - 110	P	03/04/2025	12:26	LB134892
	Selenium	5010	5000	100	90 - 110	P	03/04/2025	12:26	LB134892
	Silver	1250	1250	100	90 - 110	P	03/04/2025	12:26	LB134892
	Zinc	2530	2500	101	90 - 110	P	03/04/2025	12:26	LB134892
CCV04	Aluminum	9650	10000	96	90 - 110	P	03/04/2025	13:27	LB134892
	Arsenic	4840	5000	97	90 - 110	P	03/04/2025	13:27	LB134892
	Barium	9620	10000	96	90 - 110	P	03/04/2025	13:27	LB134892
	Cadmium	2400	2500	96	90 - 110	P	03/04/2025	13:27	LB134892
	Chromium	984	1000	98	90 - 110	P	03/04/2025	13:27	LB134892
	Copper	1230	1250	99	90 - 110	P	03/04/2025	13:27	LB134892
	Iron	4810	5000	96	90 - 110	P	03/04/2025	13:27	LB134892
	Lead	4820	5000	96	90 - 110	P	03/04/2025	13:27	LB134892
	Manganese	2370	2500	95	90 - 110	P	03/04/2025	13:27	LB134892
	Nickel	2410	2500	96	90 - 110	P	03/04/2025	13:27	LB134892
	Selenium	4880	5000	98	90 - 110	P	03/04/2025	13:27	LB134892
	Silver	1220	1250	98	90 - 110	P	03/04/2025	13:27	LB134892
	Zinc	2470	2500	99	90 - 110	P	03/04/2025	13:27	LB134892
	Aluminum	9280	10000	93	90 - 110	P	03/04/2025	14:08	LB134892
	Arsenic	4680	5000	94	90 - 110	P	03/04/2025	14:08	LB134892
CCV05	Barium	9150	10000	92	90 - 110	P	03/04/2025	14:08	LB134892
	Cadmium	2300	2500	92	90 - 110	P	03/04/2025	14:08	LB134892
	Chromium	938	1000	94	90 - 110	P	03/04/2025	14:08	LB134892
	Copper	1190	1250	96	90 - 110	P	03/04/2025	14:08	LB134892
	Iron	4570	5000	91	90 - 110	P	03/04/2025	14:08	LB134892
	Lead	4630	5000	92	90 - 110	P	03/04/2025	14:08	LB134892
	Manganese	2280	2500	91	90 - 110	P	03/04/2025	14:08	LB134892
	Nickel	2320	2500	93	90 - 110	P	03/04/2025	14:08	LB134892
	Selenium	4710	5000	94	90 - 110	P	03/04/2025	14:08	LB134892
	Silver	1160	1250	93	90 - 110	P	03/04/2025	14:08	LB134892
	Zinc	2340	2500	94	90 - 110	P	03/04/2025	14:08	LB134892
	Aluminum	9660	10000	97	90 - 110	P	03/04/2025	14:30	LB134892
	Arsenic	4890	5000	98	90 - 110	P	03/04/2025	14:30	LB134892
	Barium	9530	10000	95	90 - 110	P	03/04/2025	14:30	LB134892

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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	Cadmium	2420	2500	97	90 - 110	P	03/04/2025	14:30	LB134892
	Chromium	992	1000	99	90 - 110	P	03/04/2025	14:30	LB134892
	Copper	1250	1250	100	90 - 110	P	03/04/2025	14:30	LB134892
	Iron	4840	5000	97	90 - 110	P	03/04/2025	14:30	LB134892
	Lead	4850	5000	97	90 - 110	P	03/04/2025	14:30	LB134892
	Manganese	2350	2500	94	90 - 110	P	03/04/2025	14:30	LB134892
	Nickel	2420	2500	97	90 - 110	P	03/04/2025	14:30	LB134892
	Selenium	4910	5000	98	90 - 110	P	03/04/2025	14:30	LB134892
	Silver	1240	1250	99	90 - 110	P	03/04/2025	14:30	LB134892
	Zinc	2500	2500	100	90 - 110	P	03/04/2025	14:30	LB134892



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: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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	0.21	0.2	107	40 - 160	CV	02/20/2025	12:46	LB134760
CRI01	Aluminum	103	100	103	40 - 160	P	03/04/2025	10:22	LB134892
	Arsenic	20.7	20.0	103	40 - 160	P	03/04/2025	10:22	LB134892
	Barium	88.5	100	88	40 - 160	P	03/04/2025	10:22	LB134892
	Cadmium	5.97	6.0	100	40 - 160	P	03/04/2025	10:22	LB134892
	Chromium	10.6	10.0	106	40 - 160	P	03/04/2025	10:22	LB134892
	Copper	22.7	20.0	114	40 - 160	P	03/04/2025	10:22	LB134892
	Iron	95.3	100	95	40 - 160	P	03/04/2025	10:22	LB134892
	Lead	11.7	12.0	98	40 - 160	P	03/04/2025	10:22	LB134892
	Manganese	20.5	20.0	102	40 - 160	P	03/04/2025	10:22	LB134892
	Nickel	39.7	40.0	99	40 - 160	P	03/04/2025	10:22	LB134892
	Selenium	18.9	20.0	95	40 - 160	P	03/04/2025	10:22	LB134892
	Silver	10.1	10.0	101	40 - 160	P	03/04/2025	10:22	LB134892
	Zinc	42.5	40.0	106	40 - 160	P	03/04/2025	10:22	LB134892



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB11	Mercury	0.20	+/-0.20	U	0.20	CV	02/20/2025	12:28	LB134760

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB91	Mercury	0.20	+/-0.20	U	0.20	CV	02/20/2025	12:35	LB134760
CCB92	Mercury	0.20	+/-0.20	U	0.20	CV	02/20/2025	13:17	LB134760
CCB93	Mercury	0.20	+/-0.20	U	0.20	CV	02/20/2025	13:47	LB134760
CCB94	Mercury	0.20	+/-0.20	U	0.20	CV	02/20/2025	14:08	LB134760

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/04/2025	10:17	LB134892
	Arsenic	20.0	+/-20.0	U	20.0	P	03/04/2025	10:17	LB134892
	Barium	100	+/-100	U	100	P	03/04/2025	10:17	LB134892
	Cadmium	6.00	+/-6.00	U	6.00	P	03/04/2025	10:17	LB134892
	Chromium	10.0	+/-10.0	U	10.0	P	03/04/2025	10:17	LB134892
	Copper	20.0	+/-20.0	U	20.0	P	03/04/2025	10:17	LB134892
	Iron	100	+/-100	U	100	P	03/04/2025	10:17	LB134892
	Lead	12.0	+/-12.0	U	12.0	P	03/04/2025	10:17	LB134892
	Manganese	20.0	+/-20.0	U	20.0	P	03/04/2025	10:17	LB134892
	Nickel	40.0	+/-40.0	U	40.0	P	03/04/2025	10:17	LB134892
	Selenium	20.0	+/-20.0	U	20.0	P	03/04/2025	10:17	LB134892
	Silver	10.0	+/-10.0	U	10.0	P	03/04/2025	10:17	LB134892
	Zinc	40.0	+/-40.0	U	40.0	P	03/04/2025	10:17	LB134892

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>RSB Environmental</u>		SDG No.: <u>Q1381</u>							
Contract: <u>RSBE01</u>	Lab Code: <u>CHEM</u>	Case No.: <u>Q1381</u>	SAS No.: <u>Q1381</u>						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/04/2025	10:47	LB134892
	Arsenic	20.0	+/-20.0	U	20.0	P	03/04/2025	10:47	LB134892
	Barium	100	+/-100	U	100	P	03/04/2025	10:47	LB134892
	Cadmium	6.00	+/-6.00	U	6.00	P	03/04/2025	10:47	LB134892
	Chromium	10.0	+/-10.0	U	10.0	P	03/04/2025	10:47	LB134892
	Copper	20.0	+/-20.0	U	20.0	P	03/04/2025	10:47	LB134892
	Iron	100	+/-100	U	100	P	03/04/2025	10:47	LB134892
	Lead	12.0	+/-12.0	U	12.0	P	03/04/2025	10:47	LB134892
	Manganese	20.0	+/-20.0	U	20.0	P	03/04/2025	10:47	LB134892
	Nickel	40.0	+/-40.0	U	40.0	P	03/04/2025	10:47	LB134892
	Selenium	20.0	+/-20.0	U	20.0	P	03/04/2025	10:47	LB134892
	Silver	10.0	+/-10.0	U	10.0	P	03/04/2025	10:47	LB134892
	Zinc	40.0	+/-40.0	U	40.0	P	03/04/2025	10:47	LB134892
CCB02	Aluminum	100	+/-100	U	100	P	03/04/2025	11:39	LB134892
	Arsenic	20.0	+/-20.0	U	20.0	P	03/04/2025	11:39	LB134892
	Barium	100	+/-100	U	100	P	03/04/2025	11:39	LB134892
	Cadmium	6.00	+/-6.00	U	6.00	P	03/04/2025	11:39	LB134892
	Chromium	10.0	+/-10.0	U	10.0	P	03/04/2025	11:39	LB134892
	Copper	20.0	+/-20.0	U	20.0	P	03/04/2025	11:39	LB134892
	Iron	100	+/-100	U	100	P	03/04/2025	11:39	LB134892
	Lead	12.0	+/-12.0	U	12.0	P	03/04/2025	11:39	LB134892
	Manganese	20.0	+/-20.0	U	20.0	P	03/04/2025	11:39	LB134892
	Nickel	40.0	+/-40.0	U	40.0	P	03/04/2025	11:39	LB134892
	Selenium	20.0	+/-20.0	U	20.0	P	03/04/2025	11:39	LB134892
	Silver	10.0	+/-10.0	U	10.0	P	03/04/2025	11:39	LB134892
	Zinc	40.0	+/-40.0	U	40.0	P	03/04/2025	11:39	LB134892
CCB03	Aluminum	100	+/-100	U	100	P	03/04/2025	12:30	LB134892
	Arsenic	20.0	+/-20.0	U	20.0	P	03/04/2025	12:30	LB134892
	Barium	100	+/-100	U	100	P	03/04/2025	12:30	LB134892
	Cadmium	6.00	+/-6.00	U	6.00	P	03/04/2025	12:30	LB134892
	Chromium	10.0	+/-10.0	U	10.0	P	03/04/2025	12:30	LB134892
	Copper	20.0	+/-20.0	U	20.0	P	03/04/2025	12:30	LB134892
	Iron	100	+/-100	U	100	P	03/04/2025	12:30	LB134892
	Lead	12.0	+/-12.0	U	12.0	P	03/04/2025	12:30	LB134892
	Manganese	20.0	+/-20.0	U	20.0	P	03/04/2025	12:30	LB134892
	Nickel	40.0	+/-40.0	U	40.0	P	03/04/2025	12:30	LB134892
	Selenium	20.0	+/-20.0	U	20.0	P	03/04/2025	12:30	LB134892
	Silver	10.0	+/-10.0	U	10.0	P	03/04/2025	12:30	LB134892
	Zinc	40.0	+/-40.0	U	40.0	P	03/04/2025	12:30	LB134892

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>RSB Environmental</u>		SDG No.: <u>Q1381</u>							
Contract: <u>RSBE01</u>	Lab Code: <u>CHEM</u>	Case No.: <u>Q1381</u>	SAS No.: <u>Q1381</u>						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Aluminum	100	+/-100	U	100	P	03/04/2025	13:31	LB134892
	Arsenic	20.0	+/-20.0	U	20.0	P	03/04/2025	13:31	LB134892
	Barium	100	+/-100	U	100	P	03/04/2025	13:31	LB134892
	Cadmium	6.00	+/-6.00	U	6.00	P	03/04/2025	13:31	LB134892
	Chromium	10.0	+/-10.0	U	10.0	P	03/04/2025	13:31	LB134892
	Copper	20.0	+/-20.0	U	20.0	P	03/04/2025	13:31	LB134892
	Iron	100	+/-100	U	100	P	03/04/2025	13:31	LB134892
	Lead	12.0	+/-12.0	U	12.0	P	03/04/2025	13:31	LB134892
	Manganese	20.0	+/-20.0	U	20.0	P	03/04/2025	13:31	LB134892
	Nickel	40.0	+/-40.0	U	40.0	P	03/04/2025	13:31	LB134892
	Selenium	20.0	+/-20.0	U	20.0	P	03/04/2025	13:31	LB134892
	Silver	10.0	+/-10.0	U	10.0	P	03/04/2025	13:31	LB134892
	Zinc	40.0	+/-40.0	U	40.0	P	03/04/2025	13:31	LB134892
CCB05	Aluminum	100	+/-100	U	100	P	03/04/2025	14:12	LB134892
	Arsenic	20.0	+/-20.0	U	20.0	P	03/04/2025	14:12	LB134892
	Barium	100	+/-100	U	100	P	03/04/2025	14:12	LB134892
	Cadmium	6.00	+/-6.00	U	6.00	P	03/04/2025	14:12	LB134892
	Chromium	10.0	+/-10.0	U	10.0	P	03/04/2025	14:12	LB134892
	Copper	20.0	+/-20.0	U	20.0	P	03/04/2025	14:12	LB134892
	Iron	100	+/-100	U	100	P	03/04/2025	14:12	LB134892
	Lead	12.0	+/-12.0	U	12.0	P	03/04/2025	14:12	LB134892
	Manganese	20.0	+/-20.0	U	20.0	P	03/04/2025	14:12	LB134892
	Nickel	40.0	+/-40.0	U	40.0	P	03/04/2025	14:12	LB134892
	Selenium	20.0	+/-20.0	U	20.0	P	03/04/2025	14:12	LB134892
	Silver	10.0	+/-10.0	U	10.0	P	03/04/2025	14:12	LB134892
	Zinc	40.0	+/-40.0	U	40.0	P	03/04/2025	14:12	LB134892
CCB06	Aluminum	100	+/-100	U	100	P	03/04/2025	14:34	LB134892
	Arsenic	20.0	+/-20.0	U	20.0	P	03/04/2025	14:34	LB134892
	Barium	100	+/-100	U	100	P	03/04/2025	14:34	LB134892
	Cadmium	6.00	+/-6.00	U	6.00	P	03/04/2025	14:34	LB134892
	Chromium	10.0	+/-10.0	U	10.0	P	03/04/2025	14:34	LB134892
	Copper	20.0	+/-20.0	U	20.0	P	03/04/2025	14:34	LB134892
	Iron	100	+/-100	U	100	P	03/04/2025	14:34	LB134892
	Lead	12.0	+/-12.0	U	12.0	P	03/04/2025	14:34	LB134892
	Manganese	20.0	+/-20.0	U	20.0	P	03/04/2025	14:34	LB134892
	Nickel	40.0	+/-40.0	U	40.0	P	03/04/2025	14:34	LB134892
	Selenium	20.0	+/-20.0	U	20.0	P	03/04/2025	14:34	LB134892
	Silver	10.0	+/-10.0	U	10.0	P	03/04/2025	14:34	LB134892
	Zinc	40.0	+/-40.0	U	40.0	P	03/04/2025	14:34	LB134892

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: RSB Environmental

SDG No.: Q1381

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166808BL		WATER		Batch Number:	PB166808		Prep Date:	02/20/2025	
	Mercury	0.20	<0.20	U	0.20	CV	02/20/2025	13:22	LB134760

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: RSB Environmental

SDG No.: Q1381

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166777BL	WATER			Batch Number:	PB166777		Prep Date:	02/19/2025	
	Aluminum	50.0	<50.0	U	50.0	P	03/04/2025	13:44	LB134892
	Arsenic	10.0	<10.0	U	10.0	P	03/04/2025	13:44	LB134892
	Barium	50.0	<50.0	U	50.0	P	03/04/2025	13:44	LB134892
	Cadmium	3.00	<3.00	U	3.00	P	03/04/2025	13:44	LB134892
	Chromium	5.00	<5.00	U	5.00	P	03/04/2025	13:44	LB134892
	Copper	10.0	<10.0	U	10.0	P	03/04/2025	13:44	LB134892
	Iron	50.0	<50.0	U	50.0	P	03/04/2025	13:44	LB134892
	Lead	6.00	<6.00	U	6.00	P	03/04/2025	13:44	LB134892
	Manganese	10.0	<10.0	U	10.0	P	03/04/2025	13:44	LB134892
	Nickel	20.0	<20.0	U	20.0	P	03/04/2025	13:44	LB134892
	Selenium	10.0	<10.0	U	10.0	P	03/04/2025	13:44	LB134892
	Silver	5.00	<5.00	U	5.00	P	03/04/2025	13:44	LB134892
	Zinc	20.0	<20.0	U	20.0	P	03/04/2025	13:44	LB134892

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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	Aluminum	251000	255000	98	216000	294000	03/04/2025	10:26	LB134892
	Arsenic	2.68			-20	20	03/04/2025	10:26	LB134892
	Barium	1.46	6.0	24	-94	106	03/04/2025	10:26	LB134892
	Cadmium	-1.36	1.0	136	-5	7	03/04/2025	10:26	LB134892
	Chromium	58.1	52.0	112	42	62	03/04/2025	10:26	LB134892
	Copper	-4.42	2.0	221	-18	22	03/04/2025	10:26	LB134892
	Iron	100000	101000	99	85600	116500	03/04/2025	10:26	LB134892
	Lead	5.20			-12	12	03/04/2025	10:26	LB134892
	Manganese	4.41	7.0	63	-13	27	03/04/2025	10:26	LB134892
	Nickel	3.04	2.0	152	-38	42	03/04/2025	10:26	LB134892
	Selenium	-11.1			-20	20	03/04/2025	10:26	LB134892
	Silver	1.08			-10	10	03/04/2025	10:26	LB134892
	Zinc	4.95			-40	40	03/04/2025	10:26	LB134892
ICSAB01	Aluminum	246000	247000	100	209000	285000	03/04/2025	10:30	LB134892
	Arsenic	111	104	107	88.4	120	03/04/2025	10:30	LB134892
	Barium	478	537	89	437	637	03/04/2025	10:30	LB134892
	Cadmium	1000	972	103	826	1120	03/04/2025	10:30	LB134892
	Chromium	563	542	104	460	624	03/04/2025	10:30	LB134892
	Copper	491	511	96	434	588	03/04/2025	10:30	LB134892
	Iron	99900	99300	101	84400	114500	03/04/2025	10:30	LB134892
	Lead	53.6	49.0	109	37	61	03/04/2025	10:30	LB134892
	Manganese	469	507	92	430	584	03/04/2025	10:30	LB134892
	Nickel	1000	954	105	810	1100	03/04/2025	10:30	LB134892
	Selenium	35.9	46.0	78	26	66	03/04/2025	10:30	LB134892
	Silver	219	201	109	170	232	03/04/2025	10:30	LB134892
	Zinc	1060	952	111	809	1095	03/04/2025	10:30	LB134892



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>RSB Environmental</u>	level: <u>low</u>	sdg no.: <u>Q1381</u>
contract: <u>RSBE01</u>	lab code: <u>CHEM</u>	case no.: <u>Q1381</u> sas no.: <u>Q1381</u>
matrix: <u>Water</u>	sample id: <u>Q1381-02</u>	client id: <u>OUTFALL-002MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1381-02MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	10300		8150		1000	216		P
Arsenic	ug/L	75 - 125	420		3.52	J	400	104		P
Barium	ug/L	75 - 125	278		170		100	107		P
Cadmium	ug/L	75 - 125	96.4		0.25	J	100	96		P
Chromium	ug/L	75 - 125	237		36.5		200	100		P
Copper	ug/L	75 - 125	215		59.7		150	103		P
Iron	ug/L	75 - 125	7520		5650		1500	124		P
Lead	ug/L	75 - 125	506		32.2		500	95		P
Manganese	ug/L	75 - 125	252		152		100	100		P
Nickel	ug/L	75 - 125	261		16.4	J	250	98		P
Selenium	ug/L	75 - 125	974		10.0	U	1000	97		P
Silver	ug/L	75 - 125	38.2		5.00	U	37.5	102		P
Zinc	ug/L	75 - 125	444		324		100	120		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>RSB Environmental</u>	level:	<u>low</u>	sdg no.:	<u>Q1381</u>
contract:	<u>RSBE01</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q1381</u>
matrix:	<u>Water</u>	sample id:	<u>Q1381-02</u>	client id:	<u>OUTFALL-002MSD</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q1381-02MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	10400		8150		1000	221		P
Arsenic	ug/L	75 - 125	419		3.52	J	400	104		P
Barium	ug/L	75 - 125	274		170		100	104		P
Cadmium	ug/L	75 - 125	96.0		0.25	J	100	96		P
Chromium	ug/L	75 - 125	234		36.5		200	99		P
Copper	ug/L	75 - 125	216		59.7		150	104		P
Iron	ug/L	75 - 125	5810		5650		1500	11	N	P
Lead	ug/L	75 - 125	503		32.2		500	94		P
Manganese	ug/L	75 - 125	252		152		100	99		P
Nickel	ug/L	75 - 125	260		16.4	J	250	97		P
Selenium	ug/L	75 - 125	973		10.0	U	1000	97		P
Silver	ug/L	75 - 125	37.7		5.00	U	37.5	100		P
Zinc	ug/L	75 - 125	442		324		100	118		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>RSB Environmental</u>	level: <u>low</u>	sdg no.: <u>Q1381</u>
contract: <u>RSBE01</u>	lab code: <u>CHEM</u>	case no.: <u>Q1381</u> sas no.: <u>Q1381</u>
matrix: <u>Water</u>	sample id: <u>Q1393-05</u>	client id: <u>PURGE-WATER-COMPMS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1393-05MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.72		0.20	U	4.0	93		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>RSB Environmental</u>	level: <u>low</u>	sdg no.: <u>Q1381</u>
contract: <u>RSBE01</u>	lab code: <u>CHEM</u>	case no.: <u>Q1381</u> sas no.: <u>Q1381</u>
matrix: <u>Water</u>	sample id: <u>Q1393-05</u>	client id: <u>PURGE-WATER-COMPMSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1393-05MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.77		0.20	U	4.0	94		CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: RSB Environmental

SDG No.: Q1381

Contract: RSBE01

Lab Code: CHEM

Case No.: Q1381

SAS No.: Q1381

Matrix: Water

Level: LOW

Client ID: OUTFALL-002A

Sample ID: Q1381-02

Spiked ID: Q1381-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	5430		5650		1500	-15		P

A
B
C
D
E
F
G
H

Metals

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DUPLICATE SAMPLE SUMMARY

Client: RSB Environmental **Level:** LOW **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
Matrix: Water **Sample ID:** Q1381-02 **Client ID:** OUTFALL-002DUP
Percent Solids for Sample: NA **Duplicate ID** Q1381-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	8150		8140		0		P
Arsenic	ug/L	20	3.52	J	10.0	U	200.0		P
Barium	ug/L	20	170		175		3		P
Cadmium	ug/L	20	0.25	J	0.21	J	20		P
Chromium	ug/L	20	36.5		26.8		31	*	P
Copper	ug/L	20	59.7		60.4		1		P
Iron	ug/L	20	5650		5680		1		P
Lead	ug/L	20	32.2		32.1		0		P
Manganese	ug/L	20	152		155		2		P
Nickel	ug/L	20	16.4	J	12.2	J	29	*	P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Zinc	ug/L	20	324		326		1		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: RSB Environmental **Level:** LOW **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
Matrix: Water **Sample ID:** Q1381-02MS **Client ID:** OUTFALL-002MSD
Percent Solids for Sample: NA **Duplicate ID** Q1381-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	10300		10400		1		P
Arsenic	ug/L	20	420		419		0		P
Barium	ug/L	20	278		274		1		P
Cadmium	ug/L	20	96.4		96.0		0		P
Chromium	ug/L	20	237		234		1		P
Copper	ug/L	20	215		216		0		P
Iron	ug/L	20	7520		5810		26	*	P
Lead	ug/L	20	506		503		1		P
Manganese	ug/L	20	252		252		0		P
Nickel	ug/L	20	261		260		0		P
Selenium	ug/L	20	974		973		0		P
Silver	ug/L	20	38.2		37.7		1		P
Zinc	ug/L	20	444		442		0		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>RSB Environmental</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q1381</u>
Contract:	<u>RSBE01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1381</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q1393-05</u>	Client ID:	<u>PURGE-WATER-COMPDUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q1393-05DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>RSB Environmental</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q1381</u>
Contract:	<u>RSBE01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1381</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q1393-05MS</u>	Client ID:	<u>PURGE-WATER-COMPMSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q1393-05MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.72		3.77		1		CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166777BS							
Aluminum	ug/L	1000	927		93	80 - 120	P
Arsenic	ug/L	400	374		94	80 - 120	P
Barium	ug/L	100	84.4		84	80 - 120	P
Cadmium	ug/L	100	86.7		87	80 - 120	P
Chromium	ug/L	200	207		104	80 - 120	P
Copper	ug/L	150	147		98	80 - 120	P
Iron	ug/L	1500	1430		95	80 - 120	P
Lead	ug/L	500	439		88	80 - 120	P
Manganese	ug/L	100	91.5		92	80 - 120	P
Nickel	ug/L	250	230		92	80 - 120	P
Selenium	ug/L	1000	881		88	80 - 120	P
Silver	ug/L	37.5	34.2		91	80 - 120	P
Zinc	ug/L	100	100		100	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166808BS Mercury	ug/L	4.0	3.55		89	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

OUTFALL-002L

Lab Name: Chemtech Consulting Group

Contract: RSBE01

Lab Code: CHEM **Lb No.:** lb134892 **Lab Sample ID :** Q1381-02L **SDG No.:** Q1381

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence		Q	M
Aluminum	8150		8840		8			P
Arsenic	3.52	J	50.0	U	100.0			P
Barium	170		168	J	1			P
Cadmium	0.25	J	15.0	U	100.0			P
Chromium	36.5		28.4		22			P
Copper	59.7		63.9		7			P
Iron	5650		5710		1			P
Lead	32.2		33.1		3			P
Manganese	152		161		6			P
Nickel	16.4	J	13.2	J	20			P
Selenium	10.0	U	50.0	U				P
Silver	5.00	U	25.0	U				P
Zinc	324		368		14			P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

PURGE-WATER-COMPL

Lab Name: Chemtech Consulting Group **Contract:** RSBE01
Lab Code: CHEM **Lb No.:** lb134760 **Lab Sample ID :** Q1393-05L **SDG No.:** Q1381
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.20 U	1.00 U			CV



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RSB Environmental

SDG No.: Q1381

Contract: RSBE01

Lab Code: CHEM

Case No.: Q1381

SAS No.: Q1381

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
Aluminum	396.100	0.0000000	-0.0002060	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
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
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
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
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RSB Environmental **SDG No.:** Q1381
Contract: RSBE01 **Lab Code:** CHEM **Case No.:** Q1381 **SAS No.:** Q1381
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
Aluminum	396.100	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
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
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
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
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RSB Environmental

SDG No.: Q1381

Contract: RSBE01

Lab Code: CHEM

Case No.: Q1381

SAS No.: Q1381

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
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
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
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
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
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
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RSB Environmental

SDG No.: Q1381

Contract: RSBE01

Lab Code: CHEM

Case No.: Q1381

SAS No.: Q1381

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
Aluminum	396.100	0.0000000	0.0000000	0.0012800	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
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
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
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
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: RSB Environmental

SDG No.: Q1381

Contract: RSBE01

Lab Code: CHEM

Case No.: Q1381

SAS No.: Q1381

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
Aluminum	396.100	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
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
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
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
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client:	<u>RSB Environmental</u>	SDG No.:	<u>Q1381</u>
Contract:	<u>RSBE01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1381</u>
		SAS No.:	<u>Q1381</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166777							
PB166777BL	PB166777BL	MB	WATER	02/19/2025	50.0	25.0	
PB166777BS	PB166777BS	LCS	WATER	02/19/2025	50.0	25.0	
Q1381-01	OUTFALL-001	SAM	WATER	02/19/2025	50.0	25.0	
Q1381-02	OUTFALL-002	SAM	WATER	02/19/2025	50.0	25.0	
Q1381-02DUP	OUTFALL-002DUP	DUP	WATER	02/19/2025	50.0	25.0	
Q1381-02MS	OUTFALL-002MS	MS	WATER	02/19/2025	50.0	25.0	
Q1381-02MSD	OUTFALL-002MSD	MSD	WATER	02/19/2025	50.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>RSB Environmental</u>	SDG No.:	<u>Q1381</u>
Contract:	<u>RSBE01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1381</u>
		SAS No.:	<u>Q1381</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166808							
PB166808BL	PB166808BL	MB	WATER	02/20/2025	30.0	30.0	
PB166808BS	PB166808BS	LCS	WATER	02/20/2025	30.0	30.0	
Q1381-01	OUTFALL-001	SAM	WATER	02/20/2025	30.0	30.0	
Q1381-02	OUTFALL-002	SAM	WATER	02/20/2025	30.0	30.0	
Q1393-05DUP	PURGE-WATER-COMPDUP	DUP	WATER	02/20/2025	30.0	30.0	
Q1393-05MS	PURGE-WATER-COMPMS	MS	WATER	02/20/2025	30.0	30.0	
Q1393-05MSD	PURGE-WATER-COMPMSD	MSD	WATER	02/20/2025	30.0	30.0	

metals
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ANALYSIS RUN LOG

Client: RSB Environmental **Contract:** RSBE01

Lab code: CHEM **Case no.:** Q1381 **Sas no.:** Q1381 **Sdg no.:** Q1381

Instrument id number: **Method:** **Run number:** LB134760

Start date: 02/20/2025 **End date:** 02/20/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1205	HG
S0.2	S0.2	1	1207	HG
S2.5	S2.5	1	1212	HG
S5	S5	1	1214	HG
S7.5	S7.5	1	1217	HG
S10	S10	1	1219	HG
ICV11	ICV11	1	1223	HG
ICB11	ICB11	1	1228	HG
CCV91	CCV91	1	1230	HG
CCB91	CCB91	1	1235	HG
CRA	CRA	1	1246	HG
CCV92	CCV92	1	1312	HG
CCB92	CCB92	1	1317	HG
PB166808BL	PB166808BL	1	1322	HG
PB166808BS	PB166808BS	1	1324	HG
Q1381-01	OUTFALL-001	1	1326	HG
Q1381-02	OUTFALL-002	1	1328	HG
Q1393-05DUP	PURGE-WATER-COMPDUP	1	1337	HG
Q1393-05MS	PURGE-WATER-COMPMS	1	1340	HG
CCV93	CCV93	1	1342	HG
CCB93	CCB93	1	1347	HG
Q1393-05MSD	PURGE-WATER-COMPMSD	1	1349	HG
Q1393-05L	PURGE-WATER-COMPL	5	1401	HG
CCV94	CCV94	1	1406	HG
CCB94	CCB94	1	1408	HG

metals
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ANALYSIS RUN LOG

Client: RSB Environmental **Contract:** RSBE01

Lab code: CHEM **Case no.:** Q1381 **Sas no.:** Q1381 **Sdg no.:** Q1381

Instrument id number: **Method:** **Run number:** LB134892

Start date: 03/04/2025 **End date:** 03/04/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0942	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
S1	S1	1	0946	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
S2	S2	1	0951	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
S3	S3	1	0955	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
S4	S4	1	0959	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
S5	S5	1	1003	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
ICV01	ICV01	1	1007	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
LLICV01	LLICV01	1	1013	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
ICB01	ICB01	1	1017	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CRI01	CRI01	1	1022	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
ICSA01	ICSA01	1	1026	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
ICSAB01	ICSAB01	1	1030	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCV01	CCV01	1	1043	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCB01	CCB01	1	1047	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCV02	CCV02	1	1134	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCB02	CCB02	1	1139	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCV03	CCV03	1	1226	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCB03	CCB03	1	1230	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
Q1381-01	OUTFALL-001	1	1300	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
Q1381-02	OUTFALL-002	1	1304	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
Q1381-02DUP	OUTFALL-002DUP	1	1308	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
Q1381-02L	OUTFALL-002L	5	1313	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
Q1381-02MS	OUTFALL-002MS	1	1317	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCV04	CCV04	1	1327	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCB04	CCB04	1	1331	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
PB166777BL	PB166777BL	1	1344	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
Q1381-02MSD	OUTFALL-002MSD	1	1358	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
Q1381-02A	OUTFALL-002A	1	1402	Fe
CCV05	CCV05	1	1408	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCB05	CCB05	1	1412	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
PB166777BS	PB166777BS	1	1416	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCV06	CCV06	1	1430	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn
CCB06	CCB06	1	1434	Ag,Al,As,Ba,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Se,Zn