

LAB CHRONICLE

OrderID:	P3440	OrderDate:	8/1/2024 12:28:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3440-01	923-K1-WS-080124	Water	Mercury	7470A	08/01/24	08/12/24	08/13/24	08/01/24
			Metals Group4	6010D		08/05/24	08/07/24	
P3440-04	922-K1-WS-080124	Water	Mercury	7470A	08/01/24	08/12/24	08/13/24	08/01/24
			Metals Group4	6010D		08/05/24	08/07/24	

Hit Summary Sheet SW-846

SDG No.:	P3440	Order ID:	P3440
Client:	JACOBS Engineering Group, Inc.	Project ID:	Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 923-K1-WS-080124								
P3440-01	923-K1-WS-080124	Water	Aluminum	50.9		28.3	50.0	ug/L
P3440-01	923-K1-WS-080124	Water	Barium	58.9		6.28	50.0	ug/L
P3440-01	923-K1-WS-080124	Water	Boron	47.6	J	9.95	50.0	ug/L
P3440-01	923-K1-WS-080124	Water	Calcium	19400		33.0	1000	ug/L
P3440-01	923-K1-WS-080124	Water	Chromium	0.76	J	0.66	5.00	ug/L
P3440-01	923-K1-WS-080124	Water	Iron	2490		18.5	50.0	ug/L
P3440-01	923-K1-WS-080124	Water	Magnesium	3680		39.4	1000	ug/L
P3440-01	923-K1-WS-080124	Water	Manganese	777		1.46	10.0	ug/L
P3440-01	923-K1-WS-080124	Water	Nickel	1.18	J	0.85	20.0	ug/L
P3440-01	923-K1-WS-080124	Water	Potassium	3290		685	1000	ug/L
P3440-01	923-K1-WS-080124	Water	Sodium	79700		237	1000	ug/L
P3440-01	923-K1-WS-080124	Water	Strontium	129		2.32	10.0	ug/L
P3440-01	923-K1-WS-080124	Water	Zinc	10.1	J	1.75	20.0	ug/L
Client ID : 922-K1-WS-080124								
P3440-04	922-K1-WS-080124	Water	Aluminum	45.7	J	28.3	50.0	ug/L
P3440-04	922-K1-WS-080124	Water	Barium	82.2		6.28	50.0	ug/L
P3440-04	922-K1-WS-080124	Water	Boron	58.2		9.95	50.0	ug/L
P3440-04	922-K1-WS-080124	Water	Calcium	35100		33.0	1000	ug/L
P3440-04	922-K1-WS-080124	Water	Cobalt	4.73	J	0.50	15.0	ug/L
P3440-04	922-K1-WS-080124	Water	Iron	4080		18.5	50.0	ug/L
P3440-04	922-K1-WS-080124	Water	Magnesium	8070		39.4	1000	ug/L
P3440-04	922-K1-WS-080124	Water	Manganese	1020		1.46	10.0	ug/L
P3440-04	922-K1-WS-080124	Water	Nickel	0.95	J	0.85	20.0	ug/L
P3440-04	922-K1-WS-080124	Water	Potassium	6330		685	1000	ug/L
P3440-04	922-K1-WS-080124	Water	Sodium	187000		237	1000	ug/L
P3440-04	922-K1-WS-080124	Water	Strontium	243		2.32	10.0	ug/L
P3440-04	922-K1-WS-080124	Water	Zinc	22.7		1.75	20.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	923-K1-WS-080124	SDG No.:	P3440
Lab Sample ID:	P3440-01	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	50.9		1	28.3	50.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-39-3	Barium	58.9		1	6.28	50.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-42-8	Boron	47.6	J	1	9.95	50.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-70-2	Calcium	19400		1	33.0	1000	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-47-3	Chromium	0.76	J	1	0.66	5.00	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7439-89-6	Iron	2490		1	18.5	50.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7439-95-4	Magnesium	3680		1	39.4	1000	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7439-96-5	Manganese	777		1	1.46	10.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	08/12/24 16:13	08/13/24 10:23	SW7470A	
7439-98-7	Molybdenum	3.67	U	1	3.67	100	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-02-0	Nickel	1.18	J	1	0.85	20.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-09-7	Potassium	3290		1	685	1000	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-23-5	Sodium	79700		1	237	1000	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-24-6	Strontium	129	N	1	2.32	10.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-31-5	Tin	1.89	U	1	1.89	20.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-32-6	Titanium	2.35	U	1	2.35	20.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010
7440-66-6	Zinc	10.1	J	1	1.75	20.0	ug/L	08/05/24 09:15	08/07/24 17:00	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Mercury			

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:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	922-K1-WS-080124	SDG No.:	P3440
Lab Sample ID:	P3440-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	45.7	J	1	28.3	50.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-39-3	Barium	82.2		1	6.28	50.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-42-8	Boron	58.2		1	9.95	50.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-70-2	Calcium	35100		1	33.0	1000	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-47-3	Chromium	0.66	U	1	0.66	5.00	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-48-4	Cobalt	4.73	J	1	0.50	15.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7439-89-6	Iron	4080		1	18.5	50.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7439-95-4	Magnesium	8070		1	39.4	1000	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7439-96-5	Manganese	1020		1	1.46	10.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	08/12/24 16:13	08/13/24 10:39	SW7470A	
7439-98-7	Molybdenum	3.67	U	1	3.67	100	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-02-0	Nickel	0.95	J	1	0.85	20.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-09-7	Potassium	6330		1	685	1000	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-23-5	Sodium	187000		1	237	1000	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-24-6	Strontium	243	N	1	2.32	10.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-31-5	Tin	1.89	U	1	1.89	20.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-32-6	Titanium	2.35	U	1	2.35	20.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010
7440-66-6	Zinc	22.7		1	1.75	20.0	ug/L	08/05/24 09:15	08/07/24 18:38	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Mercury			

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: JACOBS Engineering Group, Inc. **SDG No.:** P3440
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440
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
ICV72	Mercury	4.01	4.0	100	90 - 110	CV	08/13/2024	08:53	LB131960

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3440

Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440

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
CCV35	Mercury	4.53	5.0	91	90 - 110	CV	08/13/2024	08:58	LB131960
CCV36	Mercury	4.77	5.0	95	90 - 110	CV	08/13/2024	09:33	LB131960
CCV37	Mercury	4.95	5.0	99	90 - 110	CV	08/13/2024	10:00	LB131960
CCV38	Mercury	4.86	5.0	97	90 - 110	CV	08/13/2024	10:30	LB131960
CCV39	Mercury	5.18	5.0	104	90 - 110	CV	08/13/2024	10:58	LB131960
CCV40	Mercury	5.09	5.0	102	90 - 110	CV	08/13/2024	11:24	LB131960

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3440
 Contract: JACO05 Lab Code: CHEM Case No.: P3440 SAS No.: P3440
 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	2310	2500	92	90 - 110	P	08/07/2024	15:52	LB131900
	Antimony	937	1000	94	90 - 110	P	08/07/2024	15:52	LB131900
	Arsenic	903	1000	90	90 - 110	P	08/07/2024	15:52	LB131900
	Barium	489	520	94	90 - 110	P	08/07/2024	15:52	LB131900
	Beryllium	472	510	92	90 - 110	P	08/07/2024	15:52	LB131900
	Boron	2480	2500	99	90 - 110	P	08/07/2024	15:52	LB131900
	Cadmium	470	510	92	90 - 110	P	08/07/2024	15:52	LB131900
	Calcium	9780	10000	98	90 - 110	P	08/07/2024	15:52	LB131900
	Chromium	521	520	100	90 - 110	P	08/07/2024	15:52	LB131900
	Cobalt	487	520	94	90 - 110	P	08/07/2024	15:52	LB131900
	Copper	490	510	96	90 - 110	P	08/07/2024	15:52	LB131900
	Iron	10000	10000	100	90 - 110	P	08/07/2024	15:52	LB131900
	Lead	954	1000	95	90 - 110	P	08/07/2024	15:52	LB131900
	Magnesium	5520	6000	92	90 - 110	P	08/07/2024	15:52	LB131900
	Manganese	493	520	95	90 - 110	P	08/07/2024	15:52	LB131900
	Molybdenum	2710	2500	108	90 - 110	P	08/07/2024	15:52	LB131900
	Nickel	490	530	92	90 - 110	P	08/07/2024	15:52	LB131900
	Potassium	10300	9900	104	90 - 110	P	08/07/2024	15:52	LB131900
	Selenium	916	1000	92	90 - 110	P	08/07/2024	15:52	LB131900
	Silver	251	250	100	90 - 110	P	08/07/2024	15:52	LB131900
	Sodium	10500	10000	105	90 - 110	P	08/07/2024	15:52	LB131900
	Strontium	2500	2500	100	90 - 110	P	08/07/2024	15:52	LB131900
	Thallium	999	1000	100	90 - 110	P	08/07/2024	15:52	LB131900
	Tin	2630	2500	105	90 - 110	P	08/07/2024	15:52	LB131900
	Titanium	2640	2500	106	90 - 110	P	08/07/2024	15:52	LB131900
	Vanadium	475	500	95	90 - 110	P	08/07/2024	15:52	LB131900
	Zinc	1040	1000	104	90 - 110	P	08/07/2024	15:52	LB131900

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3440
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440
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	102	100	102	80 - 120	P	08/07/2024	15:56	LB131900
	Antimony	51.2	50.0	102	80 - 120	P	08/07/2024	15:56	LB131900
	Arsenic	19.9	20.0	100	80 - 120	P	08/07/2024	15:56	LB131900
	Barium	101	100	101	80 - 120	P	08/07/2024	15:56	LB131900
	Beryllium	6.00	6.0	100	80 - 120	P	08/07/2024	15:56	LB131900
	Boron	102	100	102	80 - 120	P	08/07/2024	15:56	LB131900
	Cadmium	6.25	6.0	104	80 - 120	P	08/07/2024	15:56	LB131900
	Calcium	2040	2000	102	80 - 120	P	08/07/2024	15:56	LB131900
	Chromium	9.27	10.0	93	80 - 120	P	08/07/2024	15:56	LB131900
	Cobalt	29.6	30.0	99	80 - 120	P	08/07/2024	15:56	LB131900
	Copper	21.9	20.0	109	80 - 120	P	08/07/2024	15:56	LB131900
	Iron	99.5	100	100	80 - 120	P	08/07/2024	15:56	LB131900
	Lead	13.9	12.0	116	80 - 120	P	08/07/2024	15:56	LB131900
	Magnesium	2100	2000	105	80 - 120	P	08/07/2024	15:56	LB131900
	Manganese	20.6	20.0	103	80 - 120	P	08/07/2024	15:56	LB131900
	Molybdenum	201	200	101	80 - 120	P	08/07/2024	15:56	LB131900
	Nickel	40.0	40.0	100	80 - 120	P	08/07/2024	15:56	LB131900
	Potassium	1760	2000	88	80 - 120	P	08/07/2024	15:56	LB131900
	Selenium	18.3	20.0	91	80 - 120	P	08/07/2024	15:56	LB131900
	Silver	8.68	10.0	87	80 - 120	P	08/07/2024	15:56	LB131900
	Sodium	1730	2000	86	80 - 120	P	08/07/2024	15:56	LB131900
	Strontium	20.7	20.0	104	80 - 120	P	08/07/2024	15:56	LB131900
	Thallium	41.2	40.0	103	80 - 120	P	08/07/2024	15:56	LB131900
	Tin	36.0	40.0	90	80 - 120	P	08/07/2024	15:56	LB131900
	Titanium	40.8	40.0	102	80 - 120	P	08/07/2024	15:56	LB131900
	Vanadium	41.4	40.0	104	80 - 120	P	08/07/2024	15:56	LB131900
	Zinc	41.5	40.0	104	80 - 120	P	08/07/2024	15:56	LB131900

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3440
 Contract: JACO05 Lab Code: CHEM Case No.: P3440 SAS No.: P3440
 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	9700	10000	97	90 - 110	P	08/07/2024	16:20	LB131900
	Antimony	4930	5000	99	90 - 110	P	08/07/2024	16:20	LB131900
	Arsenic	4910	5000	98	90 - 110	P	08/07/2024	16:20	LB131900
	Barium	10000	10000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Beryllium	249	250	100	90 - 110	P	08/07/2024	16:20	LB131900
	Boron	4900	5000	98	90 - 110	P	08/07/2024	16:20	LB131900
	Cadmium	2490	2500	100	90 - 110	P	08/07/2024	16:20	LB131900
	Calcium	25000	25000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Chromium	1010	1000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Cobalt	2470	2500	99	90 - 110	P	08/07/2024	16:20	LB131900
	Copper	1230	1250	98	90 - 110	P	08/07/2024	16:20	LB131900
	Iron	4990	5000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Lead	5060	5000	101	90 - 110	P	08/07/2024	16:20	LB131900
	Magnesium	24600	25000	98	90 - 110	P	08/07/2024	16:20	LB131900
	Manganese	2480	2500	99	90 - 110	P	08/07/2024	16:20	LB131900
	Molybdenum	5040	5000	101	90 - 110	P	08/07/2024	16:20	LB131900
	Nickel	2490	2500	100	90 - 110	P	08/07/2024	16:20	LB131900
	Potassium	24300	25000	97	90 - 110	P	08/07/2024	16:20	LB131900
	Selenium	4880	5000	98	90 - 110	P	08/07/2024	16:20	LB131900
	Silver	1240	1250	100	90 - 110	P	08/07/2024	16:20	LB131900
	Sodium	24000	25000	96	90 - 110	P	08/07/2024	16:20	LB131900
	Strontium	5000	5000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Thallium	5160	5000	103	90 - 110	P	08/07/2024	16:20	LB131900
	Tin	5000	5000	100	90 - 110	P	08/07/2024	16:20	LB131900
	Titanium	4950	5000	99	90 - 110	P	08/07/2024	16:20	LB131900
	Vanadium	2460	2500	98	90 - 110	P	08/07/2024	16:20	LB131900
	Zinc	2540	2500	102	90 - 110	P	08/07/2024	16:20	LB131900
CCV02	Aluminum	9760	10000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Antimony	4910	5000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Arsenic	4900	5000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Barium	10200	10000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Beryllium	250	250	100	90 - 110	P	08/07/2024	17:14	LB131900
	Boron	4890	5000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Cadmium	2520	2500	101	90 - 110	P	08/07/2024	17:14	LB131900

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3440
Contract: JACO05 Lab Code: CHEM Case No.: P3440 SAS No.: P3440
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Calcium	25500	25000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Chromium	1010	1000	101	90 - 110	P	08/07/2024	17:14	LB131900
	Cobalt	2490	2500	100	90 - 110	P	08/07/2024	17:14	LB131900
	Copper	1240	1250	99	90 - 110	P	08/07/2024	17:14	LB131900
	Iron	5090	5000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Lead	5100	5000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Magnesium	24800	25000	99	90 - 110	P	08/07/2024	17:14	LB131900
	Manganese	2530	2500	101	90 - 110	P	08/07/2024	17:14	LB131900
	Molybdenum	5050	5000	101	90 - 110	P	08/07/2024	17:14	LB131900
	Nickel	2510	2500	100	90 - 110	P	08/07/2024	17:14	LB131900
	Potassium	24500	25000	98	90 - 110	P	08/07/2024	17:14	LB131900
	Selenium	4850	5000	97	90 - 110	P	08/07/2024	17:14	LB131900
	Silver	1250	1250	100	90 - 110	P	08/07/2024	17:14	LB131900
	Sodium	24200	25000	97	90 - 110	P	08/07/2024	17:14	LB131900
	Strontium	5100	5000	102	90 - 110	P	08/07/2024	17:14	LB131900
	Thallium	5130	5000	103	90 - 110	P	08/07/2024	17:14	LB131900
	Tin	5030	5000	100	90 - 110	P	08/07/2024	17:14	LB131900
	Titanium	5060	5000	101	90 - 110	P	08/07/2024	17:14	LB131900
	Vanadium	2490	2500	100	90 - 110	P	08/07/2024	17:14	LB131900
	Zinc	2560	2500	102	90 - 110	P	08/07/2024	17:14	LB131900
CCV03	Aluminum	9390	10000	94	90 - 110	P	08/07/2024	18:51	LB131900
	Antimony	4780	5000	96	90 - 110	P	08/07/2024	18:51	LB131900
	Arsenic	4720	5000	94	90 - 110	P	08/07/2024	18:51	LB131900
	Barium	9840	10000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Beryllium	252	250	101	90 - 110	P	08/07/2024	18:51	LB131900
	Boron	4910	5000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Cadmium	2440	2500	98	90 - 110	P	08/07/2024	18:51	LB131900
	Calcium	24700	25000	99	90 - 110	P	08/07/2024	18:51	LB131900
	Chromium	996	1000	100	90 - 110	P	08/07/2024	18:51	LB131900
	Cobalt	2430	2500	97	90 - 110	P	08/07/2024	18:51	LB131900
	Copper	1200	1250	96	90 - 110	P	08/07/2024	18:51	LB131900
	Iron	4920	5000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Lead	4950	5000	99	90 - 110	P	08/07/2024	18:51	LB131900
	Magnesium	24200	25000	97	90 - 110	P	08/07/2024	18:51	LB131900

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3440
Contract: JACO05 Lab Code: CHEM Case No.: P3440 SAS No.: P3440
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	2460	2500	98	90 - 110	P	08/07/2024	18:51	LB131900
	Molybdenum	4970	5000	99	90 - 110	P	08/07/2024	18:51	LB131900
	Nickel	2440	2500	97	90 - 110	P	08/07/2024	18:51	LB131900
	Potassium	24200	25000	97	90 - 110	P	08/07/2024	18:51	LB131900
	Selenium	4670	5000	93	90 - 110	P	08/07/2024	18:51	LB131900
	Silver	1240	1250	99	90 - 110	P	08/07/2024	18:51	LB131900
	Sodium	23600	25000	94	90 - 110	P	08/07/2024	18:51	LB131900
	Strontium	4900	5000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Thallium	4990	5000	100	90 - 110	P	08/07/2024	18:51	LB131900
	Tin	4860	5000	97	90 - 110	P	08/07/2024	18:51	LB131900
	Titanium	4890	5000	98	90 - 110	P	08/07/2024	18:51	LB131900
	Vanadium	2420	2500	97	90 - 110	P	08/07/2024	18:51	LB131900
	Zinc	2500	2500	100	90 - 110	P	08/07/2024	18:51	LB131900
CCV04	Aluminum	9190	10000	92	90 - 110	P	08/07/2024	19:48	LB131900
	Antimony	4780	5000	96	90 - 110	P	08/07/2024	19:48	LB131900
	Arsenic	4740	5000	95	90 - 110	P	08/07/2024	19:48	LB131900
	Barium	9880	10000	99	90 - 110	P	08/07/2024	19:48	LB131900
	Beryllium	242	250	97	90 - 110	P	08/07/2024	19:48	LB131900
	Boron	4700	5000	94	90 - 110	P	08/07/2024	19:48	LB131900
	Cadmium	2460	2500	98	90 - 110	P	08/07/2024	19:48	LB131900
	Calcium	24600	25000	98	90 - 110	P	08/07/2024	19:48	LB131900
	Chromium	995	1000	100	90 - 110	P	08/07/2024	19:48	LB131900
	Cobalt	2430	2500	97	90 - 110	P	08/07/2024	19:48	LB131900
	Copper	1200	1250	96	90 - 110	P	08/07/2024	19:48	LB131900
	Iron	5100	5000	102	90 - 110	P	08/07/2024	19:48	LB131900
	Lead	5000	5000	100	90 - 110	P	08/07/2024	19:48	LB131900
	Magnesium	23900	25000	96	90 - 110	P	08/07/2024	19:48	LB131900
	Manganese	2440	2500	98	90 - 110	P	08/07/2024	19:48	LB131900
	Molybdenum	4950	5000	99	90 - 110	P	08/07/2024	19:48	LB131900
	Nickel	2450	2500	98	90 - 110	P	08/07/2024	19:48	LB131900
	Potassium	24600	25000	98	90 - 110	P	08/07/2024	19:48	LB131900
	Selenium	4690	5000	94	90 - 110	P	08/07/2024	19:48	LB131900
	Silver	1240	1250	99	90 - 110	P	08/07/2024	19:48	LB131900
	Sodium	23900	25000	96	90 - 110	P	08/07/2024	19:48	LB131900

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3440
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Strontium	4890	5000	98	90 - 110	P	08/07/2024	19:48	LB131900
	Thallium	5020	5000	100	90 - 110	P	08/07/2024	19:48	LB131900
	Tin	4900	5000	98	90 - 110	P	08/07/2024	19:48	LB131900
	Titanium	4860	5000	97	90 - 110	P	08/07/2024	19:48	LB131900
	Vanadium	2410	2500	96	90 - 110	P	08/07/2024	19:48	LB131900
	Zinc	2500	2500	100	90 - 110	P	08/07/2024	19:48	LB131900



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Metals

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CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3440
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	106	100	106	40 - 160	P	08/07/2024	16:07	LB131900
	Antimony	50.6	50.0	101	40 - 160	P	08/07/2024	16:07	LB131900
	Arsenic	19.7	20.0	99	40 - 160	P	08/07/2024	16:07	LB131900
	Barium	99.7	100	100	40 - 160	P	08/07/2024	16:07	LB131900
	Beryllium	6.22	6.0	104	40 - 160	P	08/07/2024	16:07	LB131900
	Boron	99.0	100	99	40 - 160	P	08/07/2024	16:07	LB131900
	Cadmium	6.22	6.0	104	40 - 160	P	08/07/2024	16:07	LB131900
	Calcium	2030	2000	102	40 - 160	P	08/07/2024	16:07	LB131900
	Chromium	9.85	10.0	98	40 - 160	P	08/07/2024	16:07	LB131900
	Cobalt	29.9	30.0	100	40 - 160	P	08/07/2024	16:07	LB131900
	Copper	22.3	20.0	111	40 - 160	P	08/07/2024	16:07	LB131900
	Iron	97.0	100	97	40 - 160	P	08/07/2024	16:07	LB131900
	Lead	14.5	12.0	121	40 - 160	P	08/07/2024	16:07	LB131900
	Magnesium	2110	2000	105	40 - 160	P	08/07/2024	16:07	LB131900
	Manganese	21.1	20.0	106	40 - 160	P	08/07/2024	16:07	LB131900
	Molybdenum	204	200	102	40 - 160	P	08/07/2024	16:07	LB131900
	Nickel	40.1	40.0	100	40 - 160	P	08/07/2024	16:07	LB131900
	Potassium	1760	2000	88	40 - 160	P	08/07/2024	16:07	LB131900
	Selenium	17.8	20.0	89	40 - 160	P	08/07/2024	16:07	LB131900
	Silver	8.55	10.0	86	40 - 160	P	08/07/2024	16:07	LB131900
	Sodium	1750	2000	88	40 - 160	P	08/07/2024	16:07	LB131900
	Strontium	20.5	20.0	103	40 - 160	P	08/07/2024	16:07	LB131900
	Thallium	39.2	40.0	98	40 - 160	P	08/07/2024	16:07	LB131900
	Tin	36.2	40.0	90	40 - 160	P	08/07/2024	16:07	LB131900
	Titanium	40.3	40.0	101	40 - 160	P	08/07/2024	16:07	LB131900
	Vanadium	39.9	40.0	100	40 - 160	P	08/07/2024	16:07	LB131900
	Zinc	42.1	40.0	105	40 - 160	P	08/07/2024	16:07	LB131900
CRA	Mercury	0.24	0.2	118	40 - 160	CV	08/13/2024	09:10	LB131960



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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: P3440							
Contract: JACO05	Lab Code: CHEM	Case No.: P3440		SAS No.: P3440					
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB72	Mercury	0.20	+/-0.20	U	0.20	CV	08/13/2024	08:55	LB131960

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB35	Mercury	0.20	+/-0.20	U	0.20	CV	08/13/2024	09:03	LB131960
CCB36	Mercury	0.20	+/-0.20	U	0.20	CV	08/13/2024	09:35	LB131960
CCB37	Mercury	0.20	+/-0.20	U	0.20	CV	08/13/2024	10:05	LB131960
CCB38	Mercury	0.20	+/-0.20	U	0.20	CV	08/13/2024	10:35	LB131960
CCB39	Mercury	0.20	+/-0.20	U	0.20	CV	08/13/2024	11:04	LB131960
CCB40	Mercury	0.20	+/-0.20	U	0.20	CV	08/13/2024	11:26	LB131960

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. SDG No.: P3440
Contract: JACO05 Lab Code: CHEM Case No.: P3440 SAS No.: P3440

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	08/07/2024	16:03	LB131900
	Antimony	50.0	+/-50.0	U	50.0	P	08/07/2024	16:03	LB131900
	Arsenic	20.0	+/-20.0	U	20.0	P	08/07/2024	16:03	LB131900
	Barium	100	+/-100	U	100	P	08/07/2024	16:03	LB131900
	Beryllium	6.00	+/-6.00	U	6.00	P	08/07/2024	16:03	LB131900
	Boron	100	+/-100	U	100	P	08/07/2024	16:03	LB131900
	Cadmium	6.00	+/-6.00	U	6.00	P	08/07/2024	16:03	LB131900
	Calcium	2000	+/-2000	U	2000	P	08/07/2024	16:03	LB131900
	Chromium	10.0	+/-10.0	U	10.0	P	08/07/2024	16:03	LB131900
	Cobalt	30.0	+/-30.0	U	30.0	P	08/07/2024	16:03	LB131900
	Copper	20.0	+/-20.0	U	20.0	P	08/07/2024	16:03	LB131900
	Iron	100	+/-100	U	100	P	08/07/2024	16:03	LB131900
	Lead	12.0	+/-12.0	U	12.0	P	08/07/2024	16:03	LB131900
	Magnesium	2000	+/-2000	U	2000	P	08/07/2024	16:03	LB131900
	Manganese	20.0	+/-20.0	U	20.0	P	08/07/2024	16:03	LB131900
	Molybdenum	200	+/-200	U	200	P	08/07/2024	16:03	LB131900
	Nickel	40.0	+/-40.0	U	40.0	P	08/07/2024	16:03	LB131900
	Potassium	2000	+/-2000	U	2000	P	08/07/2024	16:03	LB131900
	Selenium	20.0	+/-20.0	U	20.0	P	08/07/2024	16:03	LB131900
	Silver	10.0	+/-10.0	U	10.0	P	08/07/2024	16:03	LB131900
	Sodium	2000	+/-2000	U	2000	P	08/07/2024	16:03	LB131900
	Strontium	20.0	+/-20.0	U	20.0	P	08/07/2024	16:03	LB131900
	Thallium	40.0	+/-40.0	U	40.0	P	08/07/2024	16:03	LB131900
	Tin	40.0	+/-40.0	U	40.0	P	08/07/2024	16:03	LB131900
	Titanium	40.0	+/-40.0	U	40.0	P	08/07/2024	16:03	LB131900
	Vanadium	40.0	+/-40.0	U	40.0	P	08/07/2024	16:03	LB131900
	Zinc	40.0	+/-40.0	U	40.0	P	08/07/2024	16:03	LB131900

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: P3440							
Contract: JACO05	Lab Code: CHEM	Case No.: P3440	SAS No.: P3440						
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	08/07/2024	16:25	LB131900
	Antimony	50.0	+/-50.0	U	50.0	P	08/07/2024	16:25	LB131900
	Arsenic	20.0	+/-20.0	U	20.0	P	08/07/2024	16:25	LB131900
	Barium	100	+/-100	U	100	P	08/07/2024	16:25	LB131900
	Beryllium	6.00	+/-6.00	U	6.00	P	08/07/2024	16:25	LB131900
	Boron	100	+/-100	U	100	P	08/07/2024	16:25	LB131900
	Cadmium	6.00	+/-6.00	U	6.00	P	08/07/2024	16:25	LB131900
	Calcium	2000	+/-2000	U	2000	P	08/07/2024	16:25	LB131900
	Chromium	10.0	+/-10.0	U	10.0	P	08/07/2024	16:25	LB131900
	Cobalt	30.0	+/-30.0	U	30.0	P	08/07/2024	16:25	LB131900
	Copper	20.0	+/-20.0	U	20.0	P	08/07/2024	16:25	LB131900
	Iron	100	+/-100	U	100	P	08/07/2024	16:25	LB131900
	Lead	12.0	+/-12.0	U	12.0	P	08/07/2024	16:25	LB131900
	Magnesium	2000	+/-2000	U	2000	P	08/07/2024	16:25	LB131900
	Manganese	20.0	+/-20.0	U	20.0	P	08/07/2024	16:25	LB131900
	Molybdenum	200	+/-200	U	200	P	08/07/2024	16:25	LB131900
	Nickel	40.0	+/-40.0	U	40.0	P	08/07/2024	16:25	LB131900
	Potassium	2000	+/-2000	U	2000	P	08/07/2024	16:25	LB131900
	Selenium	20.0	+/-20.0	U	20.0	P	08/07/2024	16:25	LB131900
	Silver	10.0	+/-10.0	U	10.0	P	08/07/2024	16:25	LB131900
	Sodium	2000	+/-2000	U	2000	P	08/07/2024	16:25	LB131900
	Strontium	20.0	+/-20.0	U	20.0	P	08/07/2024	16:25	LB131900
	Thallium	40.0	+/-40.0	U	40.0	P	08/07/2024	16:25	LB131900
	Tin	40.0	+/-40.0	U	40.0	P	08/07/2024	16:25	LB131900
	Titanium	40.0	+/-40.0	U	40.0	P	08/07/2024	16:25	LB131900
	Vanadium	40.0	+/-40.0	U	40.0	P	08/07/2024	16:25	LB131900
	Zinc	40.0	+/-40.0	U	40.0	P	08/07/2024	16:25	LB131900
CCB02	Aluminum	100	+/-100	U	100	P	08/07/2024	17:18	LB131900
	Antimony	50.0	+/-50.0	U	50.0	P	08/07/2024	17:18	LB131900
	Arsenic	20.0	+/-20.0	U	20.0	P	08/07/2024	17:18	LB131900
	Barium	100	+/-100	U	100	P	08/07/2024	17:18	LB131900
	Beryllium	6.00	+/-6.00	U	6.00	P	08/07/2024	17:18	LB131900
	Boron	100	+/-100	U	100	P	08/07/2024	17:18	LB131900
	Cadmium	6.00	+/-6.00	U	6.00	P	08/07/2024	17:18	LB131900
	Calcium	2000	+/-2000	U	2000	P	08/07/2024	17:18	LB131900
	Chromium	10.0	+/-10.0	U	10.0	P	08/07/2024	17:18	LB131900
	Cobalt	30.0	+/-30.0	U	30.0	P	08/07/2024	17:18	LB131900
	Copper	20.0	+/-20.0	U	20.0	P	08/07/2024	17:18	LB131900
	Iron	100	+/-100	U	100	P	08/07/2024	17:18	LB131900

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Lead	12.0	+/-12.0	U	12.0	P	08/07/2024	17:18	LB131900
	Magnesium	2000	+/-2000	U	2000	P	08/07/2024	17:18	LB131900
	Manganese	20.0	+/-20.0	U	20.0	P	08/07/2024	17:18	LB131900
	Molybdenum	200	+/-200	U	200	P	08/07/2024	17:18	LB131900
	Nickel	40.0	+/-40.0	U	40.0	P	08/07/2024	17:18	LB131900
	Potassium	2000	+/-2000	U	2000	P	08/07/2024	17:18	LB131900
	Selenium	20.0	+/-20.0	U	20.0	P	08/07/2024	17:18	LB131900
	Silver	10.0	+/-10.0	U	10.0	P	08/07/2024	17:18	LB131900
	Sodium	2000	+/-2000	U	2000	P	08/07/2024	17:18	LB131900
	Strontium	20.0	+/-20.0	U	20.0	P	08/07/2024	17:18	LB131900
	Thallium	40.0	+/-40.0	U	40.0	P	08/07/2024	17:18	LB131900
	Tin	40.0	+/-40.0	U	40.0	P	08/07/2024	17:18	LB131900
	Titanium	40.0	+/-40.0	U	40.0	P	08/07/2024	17:18	LB131900
	Vanadium	40.0	+/-40.0	U	40.0	P	08/07/2024	17:18	LB131900
	Zinc	40.0	+/-40.0	U	40.0	P	08/07/2024	17:18	LB131900
CCB03	Aluminum	100	+/-100	U	100	P	08/07/2024	18:55	LB131900
	Antimony	50.0	+/-50.0	U	50.0	P	08/07/2024	18:55	LB131900
	Arsenic	20.0	+/-20.0	U	20.0	P	08/07/2024	18:55	LB131900
	Barium	100	+/-100	U	100	P	08/07/2024	18:55	LB131900
	Beryllium	6.00	+/-6.00	U	6.00	P	08/07/2024	18:55	LB131900
	Boron	100	+/-100	U	100	P	08/07/2024	18:55	LB131900
	Cadmium	6.00	+/-6.00	U	6.00	P	08/07/2024	18:55	LB131900
	Calcium	2000	+/-2000	U	2000	P	08/07/2024	18:55	LB131900
	Chromium	10.0	+/-10.0	U	10.0	P	08/07/2024	18:55	LB131900
	Cobalt	30.0	+/-30.0	U	30.0	P	08/07/2024	18:55	LB131900
	Copper	20.0	+/-20.0	U	20.0	P	08/07/2024	18:55	LB131900
	Iron	100	+/-100	U	100	P	08/07/2024	18:55	LB131900
	Lead	12.0	+/-12.0	U	12.0	P	08/07/2024	18:55	LB131900
	Magnesium	2000	+/-2000	U	2000	P	08/07/2024	18:55	LB131900
	Manganese	20.0	+/-20.0	U	20.0	P	08/07/2024	18:55	LB131900
	Molybdenum	200	+/-200	U	200	P	08/07/2024	18:55	LB131900
	Nickel	40.0	+/-40.0	U	40.0	P	08/07/2024	18:55	LB131900
	Potassium	2000	+/-2000	U	2000	P	08/07/2024	18:55	LB131900
	Selenium	20.0	+/-20.0	U	20.0	P	08/07/2024	18:55	LB131900
	Silver	10.0	+/-10.0	U	10.0	P	08/07/2024	18:55	LB131900
	Sodium	509	+/-2000	J	2000	P	08/07/2024	18:55	LB131900
	Strontium	20.0	+/-20.0	U	20.0	P	08/07/2024	18:55	LB131900
	Thallium	40.0	+/-40.0	U	40.0	P	08/07/2024	18:55	LB131900
	Tin	40.0	+/-40.0	U	40.0	P	08/07/2024	18:55	LB131900

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Titanium	40.0	+/-40.0	U	40.0	P	08/07/2024	18:55	LB131900
	Vanadium	40.0	+/-40.0	U	40.0	P	08/07/2024	18:55	LB131900
	Zinc	40.0	+/-40.0	U	40.0	P	08/07/2024	18:55	LB131900
CCB04	Aluminum	100	+/-100	U	100	P	08/07/2024	19:52	LB131900
	Antimony	50.0	+/-50.0	U	50.0	P	08/07/2024	19:52	LB131900
	Arsenic	20.0	+/-20.0	U	20.0	P	08/07/2024	19:52	LB131900
	Barium	100	+/-100	U	100	P	08/07/2024	19:52	LB131900
	Beryllium	6.00	+/-6.00	U	6.00	P	08/07/2024	19:52	LB131900
	Boron	100	+/-100	U	100	P	08/07/2024	19:52	LB131900
	Cadmium	6.00	+/-6.00	U	6.00	P	08/07/2024	19:52	LB131900
	Calcium	2000	+/-2000	U	2000	P	08/07/2024	19:52	LB131900
	Chromium	10.0	+/-10.0	U	10.0	P	08/07/2024	19:52	LB131900
	Cobalt	30.0	+/-30.0	U	30.0	P	08/07/2024	19:52	LB131900
	Copper	20.0	+/-20.0	U	20.0	P	08/07/2024	19:52	LB131900
	Iron	100	+/-100	U	100	P	08/07/2024	19:52	LB131900
	Lead	12.0	+/-12.0	U	12.0	P	08/07/2024	19:52	LB131900
	Magnesium	2000	+/-2000	U	2000	P	08/07/2024	19:52	LB131900
	Manganese	20.0	+/-20.0	U	20.0	P	08/07/2024	19:52	LB131900
	Molybdenum	200	+/-200	U	200	P	08/07/2024	19:52	LB131900
	Nickel	40.0	+/-40.0	U	40.0	P	08/07/2024	19:52	LB131900
	Potassium	2000	+/-2000	U	2000	P	08/07/2024	19:52	LB131900
	Selenium	20.0	+/-20.0	U	20.0	P	08/07/2024	19:52	LB131900
	Silver	10.0	+/-10.0	U	10.0	P	08/07/2024	19:52	LB131900
	Sodium	2000	+/-2000	U	2000	P	08/07/2024	19:52	LB131900
	Strontium	20.0	+/-20.0	U	20.0	P	08/07/2024	19:52	LB131900
	Thallium	40.0	+/-40.0	U	40.0	P	08/07/2024	19:52	LB131900
	Tin	40.0	+/-40.0	U	40.0	P	08/07/2024	19:52	LB131900
	Titanium	40.0	+/-40.0	U	40.0	P	08/07/2024	19:52	LB131900
	Vanadium	40.0	+/-40.0	U	40.0	P	08/07/2024	19:52	LB131900
	Zinc	40.0	+/-40.0	U	40.0	P	08/07/2024	19:52	LB131900

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB162680BL		WATER		Batch Number:	PB162680		Prep Date:	08/12/2024	
	Mercury	0.20	<0.20	U	0.20	CV	08/13/2024	10:07	LB131960

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB162493BL	WATER			Batch Number:	PB162493		Prep Date:	08/05/2024	
	Aluminum	50.0	<50.0	U	50.0	P	08/07/2024	16:29	LB131900
	Antimony	25.0	<25.0	U	25.0	P	08/07/2024	16:29	LB131900
	Arsenic	10.0	<10.0	U	10.0	P	08/07/2024	16:29	LB131900
	Barium	50.0	<50.0	U	50.0	P	08/07/2024	16:29	LB131900
	Beryllium	3.00	<3.00	U	3.00	P	08/07/2024	16:29	LB131900
	Boron	50.0	<50.0	U	50.0	P	08/07/2024	16:29	LB131900
	Cadmium	3.00	<3.00	U	3.00	P	08/07/2024	16:29	LB131900
	Calcium	1000	<1000	U	1000	P	08/07/2024	16:29	LB131900
	Chromium	5.00	<5.00	U	5.00	P	08/07/2024	16:29	LB131900
	Cobalt	15.0	<15.0	U	15.0	P	08/07/2024	16:29	LB131900
	Copper	10.0	<10.0	U	10.0	P	08/07/2024	16:29	LB131900
	Iron	50.0	<50.0	U	50.0	P	08/07/2024	16:29	LB131900
	Lead	6.00	<6.00	U	6.00	P	08/07/2024	16:29	LB131900
	Magnesium	1000	<1000	U	1000	P	08/07/2024	16:29	LB131900
	Manganese	10.0	<10.0	U	10.0	P	08/07/2024	16:29	LB131900
	Molybdenum	100	<100	U	100	P	08/07/2024	16:29	LB131900
	Nickel	20.0	<20.0	U	20.0	P	08/07/2024	16:29	LB131900
	Potassium	1000	<1000	U	1000	P	08/07/2024	16:29	LB131900
	Selenium	10.0	<10.0	U	10.0	P	08/07/2024	16:29	LB131900
	Silver	5.00	<5.00	U	5.00	P	08/07/2024	16:29	LB131900
	Sodium	1000	<1000	U	1000	P	08/07/2024	16:29	LB131900
	Strontium	10.0	<10.0	U	10.0	P	08/07/2024	16:29	LB131900
	Thallium	20.0	<20.0	U	20.0	P	08/07/2024	16:29	LB131900
	Tin	20.0	<20.0	U	20.0	P	08/07/2024	16:29	LB131900
	Titanium	20.0	<20.0	U	20.0	P	08/07/2024	16:29	LB131900
	Vanadium	20.0	<20.0	U	20.0	P	08/07/2024	16:29	LB131900
	Zinc	20.0	<20.0	U	20.0	P	08/07/2024	16:29	LB131900

Metals
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INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc.	SDG No.: P3440
Contract: JACO05 Lab Code: CHEM	Case No.: P3440 SAS No.: P3440
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	266000	255000	104	216000	294000	08/07/2024	16:12	LB131900
	Antimony	-1.84			-50	50	08/07/2024	16:12	LB131900
	Arsenic	4.35			-20	20	08/07/2024	16:12	LB131900
	Barium	6.14	6.0	102	-94	106	08/07/2024	16:12	LB131900
	Beryllium	0.93			-6	6	08/07/2024	16:12	LB131900
	Boron	12.4	1000	1	-100	100	08/07/2024	16:12	LB131900
	Cadmium	3.70	1.0	370	-5	7	08/07/2024	16:12	LB131900
	Calcium	253000	245000	103	208000	282000	08/07/2024	16:12	LB131900
	Chromium	56.8	52.0	109	42	62	08/07/2024	16:12	LB131900
	Cobalt	2.84			-30	30	08/07/2024	16:12	LB131900
	Copper	9.27	2.0	464	-18	22	08/07/2024	16:12	LB131900
	Iron	102000	101000	101	85600	116500	08/07/2024	16:12	LB131900
	Lead	5.55			-12	12	08/07/2024	16:12	LB131900
	Magnesium	272000	255000	107	216000	294000	08/07/2024	16:12	LB131900
	Manganese	16.2	7.0	231	-13	27	08/07/2024	16:12	LB131900
	Molybdenum	0.026	1000		-200	200	08/07/2024	16:12	LB131900
	Nickel	3.43	2.0	172	-38	42	08/07/2024	16:12	LB131900
	Potassium	-48.6			0	0	08/07/2024	16:12	LB131900
	Selenium	-7.63			-20	20	08/07/2024	16:12	LB131900
	Silver	2.04			-10	10	08/07/2024	16:12	LB131900
	Sodium	17.5			0	0	08/07/2024	16:12	LB131900
	Strontium	3.47			0	0	08/07/2024	16:12	LB131900
	Thallium	2.30			-40	40	08/07/2024	16:12	LB131900
	Tin	-2.89	1000		-40	40	08/07/2024	16:12	LB131900
	Titanium	-3.00			0	0	08/07/2024	16:12	LB131900
	Vanadium	5.23			-40	40	08/07/2024	16:12	LB131900
	Zinc	2.26			-40	40	08/07/2024	16:12	LB131900
ICSAB01	Aluminum	250000	247000	101	209000	285000	08/07/2024	16:16	LB131900
	Antimony	605	618	98	525	711	08/07/2024	16:16	LB131900
	Arsenic	103	104	99	88.4	120	08/07/2024	16:16	LB131900
	Barium	516	537	96	437	637	08/07/2024	16:16	LB131900
	Beryllium	494	495	100	420	570	08/07/2024	16:16	LB131900
	Boron	1010	1000	101	850	1150	08/07/2024	16:16	LB131900
	Cadmium	968	972	100	826	1120	08/07/2024	16:16	LB131900
	Calcium	237000	235000	101	199000	271000	08/07/2024	16:16	LB131900
	Chromium	565	542	104	460	624	08/07/2024	16:16	LB131900
	Cobalt	501	476	105	404	548	08/07/2024	16:16	LB131900
	Copper	488	511	96	434	588	08/07/2024	16:16	LB131900
	Iron	101000	99300	102	84400	114500	08/07/2024	16:16	LB131900
	Lead	55.1	49.0	112	37	61	08/07/2024	16:16	LB131900
	Magnesium	253000	248000	102	210000	286000	08/07/2024	16:16	LB131900
	Manganese	510	507	101	430	584	08/07/2024	16:16	LB131900

Metals

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INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3440
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440
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
ICSAB01	Molybdenum	1070	1000	107	850	1150	08/07/2024	16:16	LB131900
	Nickel	992	954	104	810	1100	08/07/2024	16:16	LB131900
	Potassium	-74.2			0	0	08/07/2024	16:16	LB131900
	Selenium	34.4	46.0	75	26	66	08/07/2024	16:16	LB131900
	Silver	221	201	110	170	232	08/07/2024	16:16	LB131900
	Sodium	3.05			0	0	08/07/2024	16:16	LB131900
	Strontium	863			0	0	08/07/2024	16:16	LB131900
	Thallium	103	108	95	68	148	08/07/2024	16:16	LB131900
	Tin	1070	1000	107	850	1150	08/07/2024	16:16	LB131900
	Titanium	1050			0	0	08/07/2024	16:16	LB131900
	Vanadium	487	491	99	417	565	08/07/2024	16:16	LB131900
	Zinc	1090	952	114	809	1095	08/07/2024	16:16	LB131900



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P3440</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>P3440</u>
matrix:	<u>Water</u>	sample id:	<u>P3440-01</u>	client id:	<u>923-K1-WS-080124MS</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P3440-02</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	86 - 115	1000		50.9		1000	95		P
Antimony	ug/L	88 - 113	378		25.0	U	400	94		P
Arsenic	ug/L	87 - 113	359		10.0	U	400	90		P
Barium	ug/L	88 - 113	155		58.9		100	96		P
Beryllium	ug/L	89 - 112	95.3		3.00	U	100	95		P
Boron	ug/L	85 - 113	178		47.6	J	150	87		P
Cadmium	ug/L	88 - 113	89.7		3.00	U	100	90		P
Calcium	ug/L	87 - 113	20200		19400		500	152		P
Chromium	ug/L	90 - 113	196		0.76	J	200	98		P
Cobalt	ug/L	89 - 114	93.6		15.0	U	100	94		P
Copper	ug/L	86 - 114	140		10.0	U	150	93		P
Iron	ug/L	87 - 115	4020		2490		1500	103		P
Lead	ug/L	86 - 113	453		6.00	U	500	91		P
Magnesium	ug/L	85 - 113	4590		3680		1000	92		P
Manganese	ug/L	90 - 114	887		777		100	111		P
Mercury	ug/L	75 - 125	3.28		0.20	U	4.0	82		CV
Molybdenum	ug/L	89 - 113	205		100	U	200	102		P
Nickel	ug/L	88 - 113	236		1.18	J	250	94		P
Potassium	ug/L	86 - 114	8060		3290		5000	95		P
Selenium	ug/L	83 - 114	851		10.0	U	1000	85		P
Silver	ug/L	84 - 115	34.0		5.00	U	37.5	91		P
Sodium	ug/L	87 - 115	80100		79700		1500	24		P
Strontium	ug/L	90 - 113	229		129		500	20	N	P
Thallium	ug/L	85 - 114	884		20.0	U	1000	88		P
Tin	ug/L	88 - 115	331		20.0	U	350	95		P
Titanium	ug/L	91 - 111	100		20.0	U	100	100		P
Vanadium	ug/L	90 - 111	146		20.0	U	150	97		P
Zinc	ug/L	87 - 115	114		10.1	J	100	104		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P3440</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>P3440</u>
matrix:	<u>Water</u>	sample id:	<u>P3440-01</u>	client id:	<u>923-K1-WS-080124MSD</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P3440-03</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	86 - 115	1050		50.9		1000	100		P
Antimony	ug/L	88 - 113	391		25.0	U	400	98		P
Arsenic	ug/L	87 - 113	377		10.0	U	400	94		P
Barium	ug/L	88 - 113	161		58.9		100	102		P
Beryllium	ug/L	89 - 112	102		3.00	U	100	102		P
Boron	ug/L	85 - 113	188		47.6	J	150	93		P
Cadmium	ug/L	88 - 113	94.8		3.00	U	100	95		P
Calcium	ug/L	87 - 113	20600		19400		500	244		P
Chromium	ug/L	90 - 113	205		0.76	J	200	102		P
Cobalt	ug/L	89 - 114	99.1		15.0	U	100	99		P
Copper	ug/L	86 - 114	146		10.0	U	150	97		P
Iron	ug/L	87 - 115	4110		2490		1500	108		P
Lead	ug/L	86 - 113	477		6.00	U	500	95		P
Magnesium	ug/L	85 - 113	4730		3680		1000	105		P
Manganese	ug/L	90 - 114	906		777		100	129		P
Mercury	ug/L	75 - 125	3.17		0.20	U	4.0	79		CV
Molybdenum	ug/L	89 - 113	213		100	U	200	106		P
Nickel	ug/L	88 - 113	249		1.18	J	250	99		P
Potassium	ug/L	86 - 114	8290		3290		5000	100		P
Selenium	ug/L	83 - 114	889		10.0	U	1000	89		P
Silver	ug/L	84 - 115	35.5		5.00	U	37.5	95		P
Sodium	ug/L	87 - 115	80100		79700		1500	27		P
Strontium	ug/L	90 - 113	236		129		500	21	N	P
Thallium	ug/L	85 - 114	940		20.0	U	1000	94		P
Tin	ug/L	88 - 115	344		20.0	U	350	98		P
Titanium	ug/L	91 - 111	103		20.0	U	100	103		P
Vanadium	ug/L	90 - 111	155		20.0	U	150	103		P
Zinc	ug/L	87 - 115	119		10.1	J	100	109		P

Metals
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POST DIGEST SPIKE SUMMARY

Client: <u>JACOBS Engineering Group, Inc.</u>	SDG No.: <u>P3440</u>	
Contract: <u>JACO05</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P3440</u> SAS No.: <u>P3440</u>
Matrix: <u>Water</u>	Level: <u>LOW</u>	Client ID: <u>923-K1-WS-080124A</u>
Sample ID: <u>P3440-01</u>	Spiked ID: <u>P3440-01A</u>	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Strontium	ug/L	90 - 113	210		129		500	16		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** P3440
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440
Matrix: Water **Sample ID:** P3440-01 **Client ID:** 923-K1-WS-080124DUP
Percent Solids for Sample: NA **Duplicate ID** P3440-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	50.9		56.2		10		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	58.9		57.4		3		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Boron	ug/L	20	47.6	J	46.4	J	3		P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	19400		18900		3		P
Chromium	ug/L	20	0.76	J	0.84	J	10		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	2490		2400		4		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	3680		3600		2		P
Manganese	ug/L	20	777		758		2		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Molybdenum	ug/L	20	100	U	100	U			P
Nickel	ug/L	20	1.18	J	1.15	J	3		P
Potassium	ug/L	20	3290		3190		3		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	79700		76900		4		P
Strontium	ug/L	20	129		126		2		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Tin	ug/L	20	20.0	U	20.0	U			P
Titanium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	10.1	J	9.57	J	5		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** P3440
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440
Matrix: Water **Sample ID:** P3440-02 **Client ID:** 923-K1-WS-080124MSD
Percent Solids for Sample: NA **Duplicate ID** P3440-03 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1000		1050		5		P
Antimony	ug/L	20	378		391		3		P
Arsenic	ug/L	20	359		377		5		P
Barium	ug/L	20	155		161		4		P
Beryllium	ug/L	20	95.3		102		7		P
Boron	ug/L	20	178		188		5		P
Cadmium	ug/L	20	89.7		94.8		6		P
Calcium	ug/L	20	20200		20600		2		P
Chromium	ug/L	20	196		205		4		P
Cobalt	ug/L	20	93.6		99.1		6		P
Copper	ug/L	20	140		146		4		P
Iron	ug/L	20	4020		4110		2		P
Lead	ug/L	20	453		477		5		P
Magnesium	ug/L	20	4590		4730		3		P
Manganese	ug/L	20	887		906		2		P
Mercury	ug/L	20	3.28		3.17		3		CV
Molybdenum	ug/L	20	205		213		4		P
Nickel	ug/L	20	236		249		5		P
Potassium	ug/L	20	8060		8290		3		P
Selenium	ug/L	20	851		889		4		P
Silver	ug/L	20	34.0		35.5		4		P
Sodium	ug/L	20	80100		80100		0		P
Strontium	ug/L	20	229		236		3		P
Thallium	ug/L	20	884		940		6		P
Tin	ug/L	20	331		344		4		P
Titanium	ug/L	20	100		103		3		P
Vanadium	ug/L	20	146		155		6		P
Zinc	ug/L	20	114		119		4		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3440
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3440 **SAS No.:** P3440

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB162493BS							
Aluminum	ug/L	1000	1020		102	86 - 115	P
Antimony	ug/L	400	403		101	88 - 113	P
Arsenic	ug/L	400	390		98	87 - 113	P
Barium	ug/L	100	100		100	88 - 113	P
Beryllium	ug/L	100	108		108	89 - 112	P
Boron	ug/L	150	157		105	85 - 113	P
Cadmium	ug/L	100	98.7		99	88 - 113	P
Calcium	ug/L	500	539	J	108	87 - 113	P
Chromium	ug/L	200	205		102	90 - 113	P
Cobalt	ug/L	100	100		100	89 - 114	P
Copper	ug/L	150	155		103	86 - 114	P
Iron	ug/L	1500	1440		96	87 - 115	P
Lead	ug/L	500	499		100	86 - 113	P
Magnesium	ug/L	1000	1000		100	85 - 113	P
Manganese	ug/L	100	104		104	90 - 114	P
Molybdenum	ug/L	200	204		102	89 - 113	P
Nickel	ug/L	250	256		102	88 - 113	P
Potassium	ug/L	5000	4540		91	86 - 114	P
Selenium	ug/L	1000	977		98	83 - 114	P
Silver	ug/L	37.5	37.1		99	84 - 115	P
Sodium	ug/L	1500	1340		89	87 - 115	P
Strontium	ug/L	100	99.7		100	90 - 113	P
Thallium	ug/L	1000	1000		100	85 - 114	P
Tin	ug/L	350	356		102	88 - 115	P
Titanium	ug/L	100	102		102	91 - 111	P
Vanadium	ug/L	150	152		101	90 - 111	P
Zinc	ug/L	100	106		106	87 - 115	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB162680BS Mercury	ug/L	4.0	3.62		90	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

923-K1-WS-080124L

Lab Name: Chemtech Consulting Group **Contract:** JAC005
Lab Code: CHEM **Lb No.:** lb131900 **Lab Sample ID :** P3440-01L **SDG No.:** P3440
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
		C		C			
Aluminum	50.9		250	U	100.0		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	58.9		59.1	J	0		P
Beryllium	3.00	U	15.0	U			P
Boron	47.6	J	50.3	J	6		P
Cadmium	3.00	U	15.0	U			P
Calcium	19400		19700		2		P
Chromium	0.76	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	2490		2550		2		P
Lead	6.00	U	30.0	U			P
Magnesium	3680		3600	J	2		P
Manganese	777		782		1		P
Mercury	0.20	U	1.00	U			CV
Molybdenum	100	U	500	U			P
Nickel	1.18	J	100	U	100.0		P
Potassium	3290		5000	U	100.0		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	79700		78800		1		P
Strontium	129		131		1		P
Thallium	20.0	U	100	U			P
Tin	20.0	U	100	U			P
Titanium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	10.1	J	9.90	J	2		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

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
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

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
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	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
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

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
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

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
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Case No.: P3440

SAS No.: P3440

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
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Method:

Case No.: P3440

SAS No.: P3440

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB162493							
P3440-01	923-K1-WS-080124	SAM	WATER	08/05/2024	50.0	25.0	
P3440-01DUP	923-K1-WS-080124DUP	DUP	WATER	08/05/2024	50.0	25.0	
P3440-02	923-K1-WS-080124MS	MS	WATER	08/05/2024	50.0	25.0	
P3440-03	923-K1-WS-080124MSD	MSD	WATER	08/05/2024	50.0	25.0	
P3440-04	922-K1-WS-080124	SAM	WATER	08/05/2024	50.0	25.0	
PB162493BL	PB162493BL	MB	WATER	08/05/2024	50.0	25.0	
PB162493BS	PB162493BS	LCS	WATER	08/05/2024	50.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3440

Contract: JACO05

Lab Code: CHEM

Method:

Case No.: P3440

SAS No.: P3440

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB162680							
P3440-01	923-K1-WS-080124	SAM	WATER	08/12/2024	30.0	30.0	
P3440-01DUP	923-K1-WS-080124DUP	DUP	WATER	08/12/2024	30.0	30.0	
P3440-02	923-K1-WS-080124MS	MS	WATER	08/12/2024	30.0	30.0	
P3440-03	923-K1-WS-080124MSD	MSD	WATER	08/12/2024	30.0	30.0	
P3440-04	922-K1-WS-080124	SAM	WATER	08/12/2024	30.0	30.0	
PB162680BL	PB162680BL	MB	WATER	08/12/2024	30.0	30.0	
PB162680BS	PB162680BS	LCS	WATER	08/12/2024	30.0	30.0	

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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** P3440 **Sas no.:** P3440

Sdg no.: P3440

Instrument id number: **Method:**

Run number: LB131900

Start date: 08/07/2024 **End date:** 08/07/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1416	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
S1	S1	1	1421	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
S2	S2	1	1425	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
S3	S3	1	1429	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
S4	S4	1	1433	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
S5	S5	1	1438	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
ICV01	ICV01	1	1552	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
LLICV01	LLICV01	1	1556	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
ICB01	ICB01	1	1603	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CRI01	CRI01	1	1607	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
ICSA01	ICSA01	1	1612	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
ICSAB01	ICSAB01	1	1616	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CCV01	CCV01	1	1620	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CCB01	CCB01	1	1625	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
PB162493BL	PB162493BL	1	1629	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
PB162493BS	PB162493BS	1	1634	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
P3440-01	923-K1-WS-080124	1	1700	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
P3440-01DUP	923-K1-WS-080124DUP	1	1705	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
P3440-01L	923-K1-WS-080124L	5	1709	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CCV02	CCV02	1	1714	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CCB02	CCB02	1	1718	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
P3440-02	923-K1-WS-080124MS	1	1820	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
P3440-03	923-K1-WS-080124MSD	1	1824	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
P3440-01A	923-K1-WS-080124A	1	1833	Sr
P3440-04	922-K1-WS-080124	1	1838	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CCV03	CCV03	1	1851	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CCB03	CCB03	1	1855	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CCV04	CCV04	1	1948	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl
CCB04	CCB04	1	1952	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** P3440 **Sas no.:** P3440

Sdg no.: P3440

Instrument id number: **Method:**

Run number: LB131960

Start date: 08/13/2024 **End date:** 08/13/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0836	HG
S0.2	S0.2	1	0839	HG
S2.5	S2.5	1	0841	HG
S5	S5	1	0843	HG
S7.5	S7.5	1	0845	HG
S10	S10	1	0850	HG
ICV72	ICV72	1	0853	HG
ICB72	ICB72	1	0855	HG
CCV35	CCV35	1	0858	HG
CCB35	CCB35	1	0903	HG
CRA	CRA	1	0910	HG
CCV36	CCV36	1	0933	HG
CCB36	CCB36	1	0935	HG
CCV37	CCV37	1	1000	HG
CCB37	CCB37	1	1005	HG
PB162680BL	PB162680BL	1	1007	HG
PB162680BS	PB162680BS	1	1009	HG
P3440-01	923-K1-WS-080124	1	1023	HG
P3440-01DUP	923-K1-WS-080124DUP	1	1025	HG
P3440-02	923-K1-WS-080124MS	1	1028	HG
CCV38	CCV38	1	1030	HG
CCB38	CCB38	1	1035	HG
P3440-03	923-K1-WS-080124MSD	1	1037	HG
P3440-04	922-K1-WS-080124	1	1039	HG
CCV39	CCV39	1	1058	HG
CCB39	CCB39	1	1104	HG
P3440-01L	923-K1-WS-080124L	5	1119	HG
CCV40	CCV40	1	1124	HG
CCB40	CCB40	1	1126	HG