

LAB CHRONICLE

OrderID:	Q2842	OrderDate:	8/13/2025 8:34:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	J23,J32,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2842-03	MW-17B-55.5-081225	Water	Mercury	7470A	08/12/25	08/14/25	08/15/25	08/12/25
			Metals ICP-TAL	6020B		08/14/25	08/15/25	
Q2842-09	MW-17B-55.5-081225	Water	Dissolved ICP-Group2	6020B	08/12/25	08/14/25	08/15/25	08/12/25

Hit Summary Sheet SW-846

SDG No.:	Q2842	Order ID:	Q2842
Client:	JACOBS Engineering Group, Inc.	Project ID:	Former Schlumberger STC PTC Site D386

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-17B-55.5-081225								
Q2842-03	MW-17B-55.5-081225	Water	Aluminum	31.8		1.94	20.0	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Antimony	0.22	J	0.11	2.00	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Arsenic	0.63	J	0.089	1.00	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Barium	448		0.21	10.0	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Calcium	29600		45.7	500	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Cobalt	8.23		0.070	1.00	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Iron	7590		7.81	50.0	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Lead	0.61	J	0.21	1.00	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Magnesium	9260		19.5	500	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Manganese	618		0.43	1.00	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Nickel	11.3		0.27	1.00	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Potassium	7950		36.4	500	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Sodium	6170		128	500	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Thallium	0.21	J	0.060	1.00	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Vanadium	0.29	J	0.077	5.00	ug/L
Q2842-03	MW-17B-55.5-081225	Water	Zinc	3.08	J	1.25	5.00	ug/L
Client ID : MW-17B-55.5-081225								
Q2842-09	MW-17B-55.5-081225	Water	Iron	7020		7.81	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/12/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/12/25
Client Sample ID:	MW-17B-55.5-081225	SDG No.:	Q2842
Lab Sample ID:	Q2842-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	31.8		1	1.94	20.0	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-36-0	Antimony	0.22	J	1	0.11	2.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-38-2	Arsenic	0.63	J	1	0.089	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-39-3	Barium	448		1	0.21	10.0	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-41-7	Beryllium	0.32	U	1	0.32	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-43-9	Cadmium	0.34	U	1	0.34	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-70-2	Calcium	29600		1	45.7	500	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-47-3	Chromium	0.21	U	1	0.21	2.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-48-4	Cobalt	8.23		1	0.070	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-50-8	Copper	0.30	U	1	0.30	2.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7439-89-6	Iron	7590		1	7.81	50.0	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7439-92-1	Lead	0.61	J	1	0.21	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7439-95-4	Magnesium	9260		1	19.5	500	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7439-96-5	Manganese	618		1	0.43	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7439-97-6	Mercury	0.076	U	1	0.076	0.20	ug/L	08/14/25 10:30	08/15/25 12:43	7470A	
7440-02-0	Nickel	11.3		1	0.27	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-09-7	Potassium	7950		1	36.4	500	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7782-49-2	Selenium	2.90	U	1	2.90	5.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-22-4	Silver	0.060	UN	1	0.060	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-23-5	Sodium	6170		1	128	500	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-28-0	Thallium	0.21	J	1	0.060	1.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-62-2	Vanadium	0.29	J	1	0.077	5.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A
7440-66-6	Zinc	3.08	J	1	1.25	5.00	ug/L	08/14/25 14:10	08/15/25 15:00	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/12/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/12/25
Client Sample ID:	MW-17B-55.5-081225	SDG No.:	Q2842
Lab Sample ID:	Q2842-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	7020	1	7.81		50.0	ug/L	08/14/25 14:10	08/15/25 15:18	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group3			

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
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METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

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
ICV18	Mercury	4.08	4.0	102	90 - 110	CV	08/15/2025	11:40	LB136836

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

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
CCV54	Mercury	5.24	5.0	105	90 - 110	CV	08/15/2025	12:11	LB136836
CCV55	Mercury	4.83	5.0	96	90 - 110	CV	08/15/2025	12:38	LB136836
CCV56	Mercury	5.09	5.0	102	90 - 110	CV	08/15/2025	13:09	LB136836
CCV57	Mercury	5.18	5.0	104	90 - 110	CV	08/15/2025	13:15	LB136836

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.
Contract: JACO05
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

SDG No.: Q2842
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	1500	1600	94	90 - 110	P	08/15/2025	13:22	LB136861
	Antimony	401	400	100	90 - 110	P	08/15/2025	13:22	LB136861
	Arsenic	386	400	97	90 - 110	P	08/15/2025	13:22	LB136861
	Barium	1610	1600	100	90 - 110	P	08/15/2025	13:22	LB136861
	Beryllium	39.0	40.0	98	90 - 110	P	08/15/2025	13:22	LB136861
	Cadmium	203	200	101	90 - 110	P	08/15/2025	13:22	LB136861
	Calcium	4130	4000	103	90 - 110	P	08/15/2025	13:22	LB136861
	Chromium	157	160	98	90 - 110	P	08/15/2025	13:22	LB136861
	Cobalt	394	400	98	90 - 110	P	08/15/2025	13:22	LB136861
	Copper	183	200	91	90 - 110	P	08/15/2025	13:22	LB136861
	Iron	853	800	107	90 - 110	P	08/15/2025	13:22	LB136861
	Lead	369	400	92	90 - 110	P	08/15/2025	13:22	LB136861
	Magnesium	3620	4000	90	90 - 110	P	08/15/2025	13:22	LB136861
	Manganese	364	400	91	90 - 110	P	08/15/2025	13:22	LB136861
	Nickel	398	400	100	90 - 110	P	08/15/2025	13:22	LB136861
	Potassium	3990	4000	100	90 - 110	P	08/15/2025	13:22	LB136861
	Selenium	398	400	99	90 - 110	P	08/15/2025	13:22	LB136861
	Silver	203	200	102	90 - 110	P	08/15/2025	13:22	LB136861
	Sodium	4040	4000	101	90 - 110	P	08/15/2025	13:22	LB136861
	Thallium	371	400	93	90 - 110	P	08/15/2025	13:22	LB136861
	Vanadium	387	400	97	90 - 110	P	08/15/2025	13:22	LB136861
	Zinc	366	400	91	90 - 110	P	08/15/2025	13:22	LB136861

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	19.4	20.0	97	80 - 120	P	08/15/2025	13:40	LB136861
	Antimony	2.12	2.0	106	80 - 120	P	08/15/2025	13:40	LB136861
	Arsenic	1.01	1.0	101	80 - 120	P	08/15/2025	13:40	LB136861
	Barium	10.0	10.0	100	80 - 120	P	08/15/2025	13:40	LB136861
	Beryllium	1.09	1.0	109	80 - 120	P	08/15/2025	13:40	LB136861
	Cadmium	0.96	1.0	96	80 - 120	P	08/15/2025	13:40	LB136861
	Calcium	554	500	111	80 - 120	P	08/15/2025	13:40	LB136861
	Chromium	1.98	2.0	99	80 - 120	P	08/15/2025	13:40	LB136861
	Cobalt	1.05	1.0	105	80 - 120	P	08/15/2025	13:40	LB136861
	Copper	1.95	2.0	98	80 - 120	P	08/15/2025	13:40	LB136861
	Iron	56.3	50.0	113	80 - 120	P	08/15/2025	13:40	LB136861
	Lead	0.84	1.0	84	80 - 120	P	08/15/2025	13:40	LB136861
	Magnesium	499	500	100	80 - 120	P	08/15/2025	13:40	LB136861
	Manganese	1.04	1.0	104	80 - 120	P	08/15/2025	13:40	LB136861
	Nickel	0.99	1.0	99	80 - 120	P	08/15/2025	13:40	LB136861
	Potassium	550	500	110	80 - 120	P	08/15/2025	13:40	LB136861
	Selenium	4.94	5.0	99	80 - 120	P	08/15/2025	13:40	LB136861
	Silver	1.13	1.0	113	80 - 120	P	08/15/2025	13:40	LB136861
	Sodium	521	500	104	80 - 120	P	08/15/2025	13:40	LB136861
	Thallium	1.02	1.0	102	80 - 120	P	08/15/2025	13:40	LB136861
	Vanadium	5.03	5.0	101	80 - 120	P	08/15/2025	13:40	LB136861
	Zinc	4.27	5.0	85	80 - 120	P	08/15/2025	13:40	LB136861

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	47100	50000	94	90 - 110	P	08/15/2025	13:53	LB136861
	Antimony	490	500	98	90 - 110	P	08/15/2025	13:53	LB136861
	Arsenic	474	500	95	90 - 110	P	08/15/2025	13:53	LB136861
	Barium	2460	2500	98	90 - 110	P	08/15/2025	13:53	LB136861
	Beryllium	511	500	102	90 - 110	P	08/15/2025	13:53	LB136861
	Cadmium	479	500	96	90 - 110	P	08/15/2025	13:53	LB136861
	Calcium	250000	250000	100	90 - 110	P	08/15/2025	13:53	LB136861
	Chromium	489	500	98	90 - 110	P	08/15/2025	13:53	LB136861
	Cobalt	482	500	96	90 - 110	P	08/15/2025	13:53	LB136861
	Copper	4770	5000	95	90 - 110	P	08/15/2025	13:53	LB136861
	Iron	127000	125000	102	90 - 110	P	08/15/2025	13:53	LB136861
	Lead	2460	2500	98	90 - 110	P	08/15/2025	13:53	LB136861
	Magnesium	239000	250000	96	90 - 110	P	08/15/2025	13:53	LB136861
	Manganese	4890	5000	98	90 - 110	P	08/15/2025	13:53	LB136861
	Nickel	479	500	96	90 - 110	P	08/15/2025	13:53	LB136861
	Potassium	124000	125000	99	90 - 110	P	08/15/2025	13:53	LB136861
	Selenium	466	500	93	90 - 110	P	08/15/2025	13:53	LB136861
	Silver	485	500	97	90 - 110	P	08/15/2025	13:53	LB136861
	Sodium	244000	250000	98	90 - 110	P	08/15/2025	13:53	LB136861
	Thallium	503	500	101	90 - 110	P	08/15/2025	13:53	LB136861
	Vanadium	490	500	98	90 - 110	P	08/15/2025	13:53	LB136861
	Zinc	4670	5000	94	90 - 110	P	08/15/2025	13:53	LB136861
CCV02	Aluminum	47800	50000	96	90 - 110	P	08/15/2025	14:41	LB136861
	Antimony	496	500	99	90 - 110	P	08/15/2025	14:41	LB136861
	Arsenic	484	500	97	90 - 110	P	08/15/2025	14:41	LB136861
	Barium	2520	2500	101	90 - 110	P	08/15/2025	14:41	LB136861
	Beryllium	510	500	102	90 - 110	P	08/15/2025	14:41	LB136861
	Cadmium	492	500	98	90 - 110	P	08/15/2025	14:41	LB136861
	Calcium	253000	250000	101	90 - 110	P	08/15/2025	14:41	LB136861
	Chromium	498	500	100	90 - 110	P	08/15/2025	14:41	LB136861
	Cobalt	497	500	99	90 - 110	P	08/15/2025	14:41	LB136861
	Copper	4960	5000	99	90 - 110	P	08/15/2025	14:41	LB136861
	Iron	130000	125000	104	90 - 110	P	08/15/2025	14:41	LB136861
	Lead	2480	2500	99	90 - 110	P	08/15/2025	14:41	LB136861

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	244000	250000	98	90 - 110	P	08/15/2025	14:41	LB136861
	Manganese	5000	5000	100	90 - 110	P	08/15/2025	14:41	LB136861
	Nickel	487	500	97	90 - 110	P	08/15/2025	14:41	LB136861
	Potassium	128000	125000	102	90 - 110	P	08/15/2025	14:41	LB136861
	Selenium	475	500	95	90 - 110	P	08/15/2025	14:41	LB136861
	Silver	502	500	100	90 - 110	P	08/15/2025	14:41	LB136861
	Sodium	249000	250000	100	90 - 110	P	08/15/2025	14:41	LB136861
	Thallium	512	500	102	90 - 110	P	08/15/2025	14:41	LB136861
	Vanadium	501	500	100	90 - 110	P	08/15/2025	14:41	LB136861
	Zinc	4830	5000	97	90 - 110	P	08/15/2025	14:41	LB136861
CCV03	Aluminum	48700	50000	98	90 - 110	P	08/15/2025	15:21	LB136861
	Antimony	503	500	101	90 - 110	P	08/15/2025	15:21	LB136861
	Arsenic	480	500	96	90 - 110	P	08/15/2025	15:21	LB136861
	Barium	2500	2500	100	90 - 110	P	08/15/2025	15:21	LB136861
	Beryllium	510	500	102	90 - 110	P	08/15/2025	15:21	LB136861
	Cadmium	494	500	99	90 - 110	P	08/15/2025	15:21	LB136861
	Calcium	253000	250000	101	90 - 110	P	08/15/2025	15:21	LB136861
	Chromium	495	500	99	90 - 110	P	08/15/2025	15:21	LB136861
	Cobalt	491	500	98	90 - 110	P	08/15/2025	15:21	LB136861
	Copper	4890	5000	98	90 - 110	P	08/15/2025	15:21	LB136861
	Iron	127000	125000	102	90 - 110	P	08/15/2025	15:21	LB136861
	Lead	2500	2500	100	90 - 110	P	08/15/2025	15:21	LB136861
	Magnesium	243000	250000	97	90 - 110	P	08/15/2025	15:21	LB136861
	Manganese	4930	5000	99	90 - 110	P	08/15/2025	15:21	LB136861
	Nickel	480	500	96	90 - 110	P	08/15/2025	15:21	LB136861
	Potassium	128000	125000	103	90 - 110	P	08/15/2025	15:21	LB136861
	Selenium	472	500	94	90 - 110	P	08/15/2025	15:21	LB136861
	Silver	508	500	102	90 - 110	P	08/15/2025	15:21	LB136861
	Sodium	246000	250000	98	90 - 110	P	08/15/2025	15:21	LB136861
	Thallium	511	500	102	90 - 110	P	08/15/2025	15:21	LB136861
	Vanadium	498	500	100	90 - 110	P	08/15/2025	15:21	LB136861
	Zinc	4780	5000	96	90 - 110	P	08/15/2025	15:21	LB136861
CCV04	Aluminum	47600	50000	95	90 - 110	P	08/15/2025	15:58	LB136861
	Antimony	494	500	99	90 - 110	P	08/15/2025	15:58	LB136861

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

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
CCV04	Arsenic	475	500	95	90 - 110	P	08/15/2025	15:58	LB136861
	Barium	2470	2500	99	90 - 110	P	08/15/2025	15:58	LB136861
	Beryllium	505	500	101	90 - 110	P	08/15/2025	15:58	LB136861
	Cadmium	481	500	96	90 - 110	P	08/15/2025	15:58	LB136861
	Calcium	252000	250000	101	90 - 110	P	08/15/2025	15:58	LB136861
	Chromium	483	500	97	90 - 110	P	08/15/2025	15:58	LB136861
	Cobalt	482	500	96	90 - 110	P	08/15/2025	15:58	LB136861
	Copper	4690	5000	94	90 - 110	P	08/15/2025	15:58	LB136861
	Iron	126000	125000	101	90 - 110	P	08/15/2025	15:58	LB136861
	Lead	2430	2500	97	90 - 110	P	08/15/2025	15:58	LB136861
	Magnesium	240000	250000	96	90 - 110	P	08/15/2025	15:58	LB136861
	Manganese	4850	5000	97	90 - 110	P	08/15/2025	15:58	LB136861
	Nickel	470	500	94	90 - 110	P	08/15/2025	15:58	LB136861
	Potassium	124000	125000	99	90 - 110	P	08/15/2025	15:58	LB136861
	Selenium	477	500	95	90 - 110	P	08/15/2025	15:58	LB136861
	Silver	493	500	99	90 - 110	P	08/15/2025	15:58	LB136861
	Sodium	244000	250000	98	90 - 110	P	08/15/2025	15:58	LB136861
	Thallium	496	500	99	90 - 110	P	08/15/2025	15:58	LB136861
	Vanadium	480	500	96	90 - 110	P	08/15/2025	15:58	LB136861
	Zinc	4710	5000	94	90 - 110	P	08/15/2025	15:58	LB136861
CCV05	Aluminum	47800	50000	96	90 - 110	P	08/15/2025	16:39	LB136861
	Antimony	504	500	101	90 - 110	P	08/15/2025	16:39	LB136861
	Arsenic	469	500	94	90 - 110	P	08/15/2025	16:39	LB136861
	Barium	2540	2500	102	90 - 110	P	08/15/2025	16:39	LB136861
	Beryllium	514	500	103	90 - 110	P	08/15/2025	16:39	LB136861
	Cadmium	491	500	98	90 - 110	P	08/15/2025	16:39	LB136861
	Calcium	260000	250000	104	90 - 110	P	08/15/2025	16:39	LB136861
	Chromium	487	500	97	90 - 110	P	08/15/2025	16:39	LB136861
	Cobalt	483	500	97	90 - 110	P	08/15/2025	16:39	LB136861
	Copper	4740	5000	95	90 - 110	P	08/15/2025	16:39	LB136861
	Iron	126000	125000	101	90 - 110	P	08/15/2025	16:39	LB136861
	Lead	2560	2500	103	90 - 110	P	08/15/2025	16:39	LB136861
	Magnesium	240000	250000	96	90 - 110	P	08/15/2025	16:39	LB136861
	Manganese	4840	5000	97	90 - 110	P	08/15/2025	16:39	LB136861

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

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
CCV05	Nickel	470	500	94	90 - 110	P	08/15/2025	16:39	LB136861
	Potassium	124000	125000	99	90 - 110	P	08/15/2025	16:39	LB136861
	Selenium	493	500	98	90 - 110	P	08/15/2025	16:39	LB136861
	Silver	509	500	102	90 - 110	P	08/15/2025	16:39	LB136861
	Sodium	240000	250000	96	90 - 110	P	08/15/2025	16:39	LB136861
	Thallium	522	500	104	90 - 110	P	08/15/2025	16:39	LB136861
	Vanadium	483	500	97	90 - 110	P	08/15/2025	16:39	LB136861
	Zinc	4680	5000	94	90 - 110	P	08/15/2025	16:39	LB136861

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	1530	1600	95	90 - 110	P	08/21/2025	12:15	LB136916
	Antimony	410	400	102	90 - 110	P	08/21/2025	12:15	LB136916
	Arsenic	404	400	101	90 - 110	P	08/21/2025	12:15	LB136916
	Barium	1600	1600	100	90 - 110	P	08/21/2025	12:15	LB136916
	Beryllium	40.4	40.0	101	90 - 110	P	08/21/2025	12:15	LB136916
	Cadmium	207	200	104	90 - 110	P	08/21/2025	12:15	LB136916
	Calcium	4220	4000	106	90 - 110	P	08/21/2025	12:15	LB136916
	Chromium	161	160	101	90 - 110	P	08/21/2025	12:15	LB136916
	Cobalt	400	400	100	90 - 110	P	08/21/2025	12:15	LB136916
	Copper	187	200	93	90 - 110	P	08/21/2025	12:15	LB136916
	Iron	856	800	107	90 - 110	P	08/21/2025	12:15	LB136916
	Lead	371	400	93	90 - 110	P	08/21/2025	12:15	LB136916
	Magnesium	3710	4000	93	90 - 110	P	08/21/2025	12:15	LB136916
	Manganese	369	400	92	90 - 110	P	08/21/2025	12:15	LB136916
	Nickel	409	400	102	90 - 110	P	08/21/2025	12:15	LB136916
	Potassium	3900	4000	98	90 - 110	P	08/21/2025	12:15	LB136916
	Selenium	404	400	101	90 - 110	P	08/21/2025	12:15	LB136916
	Silver	209	200	105	90 - 110	P	08/21/2025	12:15	LB136916
	Sodium	4010	4000	100	90 - 110	P	08/21/2025	12:15	LB136916
	Thallium	378	400	94	90 - 110	P	08/21/2025	12:15	LB136916
	Vanadium	396	400	99	90 - 110	P	08/21/2025	12:15	LB136916
	Zinc	376	400	94	90 - 110	P	08/21/2025	12:15	LB136916

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	19.3	20.0	96	80 - 120	P	08/21/2025	12:26	LB136916
	Antimony	2.10	2.0	105	80 - 120	P	08/21/2025	12:26	LB136916
	Arsenic	0.99	1.0	99	80 - 120	P	08/21/2025	12:26	LB136916
	Barium	9.84	10.0	98	80 - 120	P	08/21/2025	12:26	LB136916
	Beryllium	1.09	1.0	109	80 - 120	P	08/21/2025	12:26	LB136916
	Cadmium	1.05	1.0	105	80 - 120	P	08/21/2025	12:26	LB136916
	Calcium	516	500	103	80 - 120	P	08/21/2025	12:26	LB136916
	Chromium	1.96	2.0	98	80 - 120	P	08/21/2025	12:26	LB136916
	Cobalt	1.06	1.0	106	80 - 120	P	08/21/2025	12:26	LB136916
	Copper	2.00	2.0	100	80 - 120	P	08/21/2025	12:26	LB136916
	Iron	53.8	50.0	108	80 - 120	P	08/21/2025	12:26	LB136916
	Lead	0.82	1.0	82	80 - 120	P	08/21/2025	12:26	LB136916
	Magnesium	497	500	99	80 - 120	P	08/21/2025	12:26	LB136916
	Manganese	1.02	1.0	102	80 - 120	P	08/21/2025	12:26	LB136916
	Nickel	0.99	1.0	99	80 - 120	P	08/21/2025	12:26	LB136916
	Potassium	504	500	101	80 - 120	P	08/21/2025	12:26	LB136916
	Selenium	5.45	5.0	109	80 - 120	P	08/21/2025	12:26	LB136916
	Silver	1.09	1.0	109	80 - 120	P	08/21/2025	12:26	LB136916
	Sodium	510	500	102	80 - 120	P	08/21/2025	12:26	LB136916
	Thallium	0.96	1.0	96	80 - 120	P	08/21/2025	12:26	LB136916
	Vanadium	4.98	5.0	100	80 - 120	P	08/21/2025	12:26	LB136916
	Zinc	5.43	5.0	109	80 - 120	P	08/21/2025	12:26	LB136916

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	46300	50000	93	90 - 110	P	08/21/2025	12:39	LB136916
	Antimony	522	500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Arsenic	500	500	100	90 - 110	P	08/21/2025	12:39	LB136916
	Barium	2650	2500	106	90 - 110	P	08/21/2025	12:39	LB136916
	Beryllium	521	500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Cadmium	512	500	102	90 - 110	P	08/21/2025	12:39	LB136916
	Calcium	249000	250000	100	90 - 110	P	08/21/2025	12:39	LB136916
	Chromium	511	500	102	90 - 110	P	08/21/2025	12:39	LB136916
	Cobalt	505	500	101	90 - 110	P	08/21/2025	12:39	LB136916
	Copper	4990	5000	100	90 - 110	P	08/21/2025	12:39	LB136916
	Iron	122000	125000	97	90 - 110	P	08/21/2025	12:39	LB136916
	Lead	2590	2500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Magnesium	247000	250000	99	90 - 110	P	08/21/2025	12:39	LB136916
	Manganese	5070	5000	101	90 - 110	P	08/21/2025	12:39	LB136916
	Nickel	495	500	99	90 - 110	P	08/21/2025	12:39	LB136916
	Potassium	122000	125000	98	90 - 110	P	08/21/2025	12:39	LB136916
	Selenium	489	500	98	90 - 110	P	08/21/2025	12:39	LB136916
	Silver	518	500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Sodium	251000	250000	100	90 - 110	P	08/21/2025	12:39	LB136916
	Thallium	520	500	104	90 - 110	P	08/21/2025	12:39	LB136916
	Vanadium	510	500	102	90 - 110	P	08/21/2025	12:39	LB136916
	Zinc	4820	5000	96	90 - 110	P	08/21/2025	12:39	LB136916
CCV02	Aluminum	46800	50000	94	90 - 110	P	08/21/2025	13:40	LB136916
	Antimony	519	500	104	90 - 110	P	08/21/2025	13:40	LB136916
	Arsenic	495	500	99	90 - 110	P	08/21/2025	13:40	LB136916
	Barium	2630	2500	105	90 - 110	P	08/21/2025	13:40	LB136916
	Beryllium	519	500	104	90 - 110	P	08/21/2025	13:40	LB136916
	Cadmium	506	500	101	90 - 110	P	08/21/2025	13:40	LB136916
	Calcium	252000	250000	101	90 - 110	P	08/21/2025	13:40	LB136916
	Chromium	496	500	99	90 - 110	P	08/21/2025	13:40	LB136916
	Cobalt	484	500	97	90 - 110	P	08/21/2025	13:40	LB136916
	Copper	4960	5000	99	90 - 110	P	08/21/2025	13:40	LB136916
	Iron	121000	125000	96	90 - 110	P	08/21/2025	13:40	LB136916
	Lead	2500	2500	100	90 - 110	P	08/21/2025	13:40	LB136916

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	249000	250000	100	90 - 110	P	08/21/2025	13:40	LB136916
	Manganese	5000	5000	100	90 - 110	P	08/21/2025	13:40	LB136916
	Nickel	488	500	98	90 - 110	P	08/21/2025	13:40	LB136916
	Potassium	121000	125000	97	90 - 110	P	08/21/2025	13:40	LB136916
	Selenium	488	500	98	90 - 110	P	08/21/2025	13:40	LB136916
	Silver	515	500	103	90 - 110	P	08/21/2025	13:40	LB136916
	Sodium	254000	250000	102	90 - 110	P	08/21/2025	13:40	LB136916
	Thallium	505	500	101	90 - 110	P	08/21/2025	13:40	LB136916
	Vanadium	498	500	100	90 - 110	P	08/21/2025	13:40	LB136916
	Zinc	4810	5000	96	90 - 110	P	08/21/2025	13:40	LB136916
CCV03	Aluminum	48300	50000	96	90 - 110	P	08/21/2025	14:32	LB136916
	Antimony	502	500	100	90 - 110	P	08/21/2025	14:32	LB136916
	Arsenic	507	500	101	90 - 110	P	08/21/2025	14:32	LB136916
	Barium	2560	2500	102	90 - 110	P	08/21/2025	14:32	LB136916
	Beryllium	531	500	106	90 - 110	P	08/21/2025	14:32	LB136916
	Cadmium	495	500	99	90 - 110	P	08/21/2025	14:32	LB136916
	Calcium	244000	250000	98	90 - 110	P	08/21/2025	14:32	LB136916
	Chromium	512	500	102	90 - 110	P	08/21/2025	14:32	LB136916
	Cobalt	507	500	101	90 - 110	P	08/21/2025	14:32	LB136916
	Copper	5010	5000	100	90 - 110	P	08/21/2025	14:32	LB136916
	Iron	122000	125000	98	90 - 110	P	08/21/2025	14:32	LB136916
	Lead	2540	2500	102	90 - 110	P	08/21/2025	14:32	LB136916
	Magnesium	254000	250000	102	90 - 110	P	08/21/2025	14:32	LB136916
	Manganese	5100	5000	102	90 - 110	P	08/21/2025	14:32	LB136916
	Nickel	498	500	100	90 - 110	P	08/21/2025	14:32	LB136916
	Potassium	125000	125000	100	90 - 110	P	08/21/2025	14:32	LB136916
	Selenium	483	500	96	90 - 110	P	08/21/2025	14:32	LB136916
	Silver	507	500	101	90 - 110	P	08/21/2025	14:32	LB136916
	Sodium	252000	250000	101	90 - 110	P	08/21/2025	14:32	LB136916
	Thallium	502	500	100	90 - 110	P	08/21/2025	14:32	LB136916
	Vanadium	510	500	102	90 - 110	P	08/21/2025	14:32	LB136916
	Zinc	4870	5000	97	90 - 110	P	08/21/2025	14:32	LB136916
CCV04	Aluminum	47200	50000	94	90 - 110	P	08/21/2025	15:12	LB136916
	Antimony	506	500	101	90 - 110	P	08/21/2025	15:12	LB136916

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

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
CCV04	Arsenic	502	500	100	90 - 110	P	08/21/2025	15:12	LB136916
	Barium	2540	2500	102	90 - 110	P	08/21/2025	15:12	LB136916
	Beryllium	515	500	103	90 - 110	P	08/21/2025	15:12	LB136916
	Cadmium	499	500	100	90 - 110	P	08/21/2025	15:12	LB136916
	Calcium	238000	250000	95	90 - 110	P	08/21/2025	15:12	LB136916
	Chromium	501	500	100	90 - 110	P	08/21/2025	15:12	LB136916
	Cobalt	493	500	99	90 - 110	P	08/21/2025	15:12	LB136916
	Copper	4930	5000	99	90 - 110	P	08/21/2025	15:12	LB136916
	Iron	119000	125000	95	90 - 110	P	08/21/2025	15:12	LB136916
	Lead	2500	2500	100	90 - 110	P	08/21/2025	15:12	LB136916
	Magnesium	251000	250000	100	90 - 110	P	08/21/2025	15:12	LB136916
	Manganese	5020	5000	100	90 - 110	P	08/21/2025	15:12	LB136916
	Nickel	487	500	97	90 - 110	P	08/21/2025	15:12	LB136916
	Potassium	122000	125000	98	90 - 110	P	08/21/2025	15:12	LB136916
	Selenium	483	500	97	90 - 110	P	08/21/2025	15:12	LB136916
	Silver	508	500	102	90 - 110	P	08/21/2025	15:12	LB136916
	Sodium	252000	250000	101	90 - 110	P	08/21/2025	15:12	LB136916
	Thallium	506	500	101	90 - 110	P	08/21/2025	15:12	LB136916
	Vanadium	505	500	101	90 - 110	P	08/21/2025	15:12	LB136916
	Zinc	4750	5000	95	90 - 110	P	08/21/2025	15:12	LB136916

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.19	0.2	94	70 - 130	CV	08/15/2025	12:16	LB136836
CRI	Aluminum	18.0	20.0	90	70 - 130	P	08/15/2025	14:03	LB136861
	Antimony	2.15	2.0	108	70 - 130	P	08/15/2025	14:03	LB136861
	Arsenic	1.04	1.0	104	70 - 130	P	08/15/2025	14:03	LB136861
	Barium	10.7	10.0	107	70 - 130	P	08/15/2025	14:03	LB136861
	Beryllium	1.17	1.0	117	70 - 130	P	08/15/2025	14:03	LB136861
	Cadmium	1.05	1.0	105	70 - 130	P	08/15/2025	14:03	LB136861
	Calcium	589	500	118	70 - 130	P	08/15/2025	14:03	LB136861
	Chromium	2.19	2.0	110	70 - 130	P	08/15/2025	14:03	LB136861
	Cobalt	1.15	1.0	115	50 - 150	P	08/15/2025	14:03	LB136861
	Copper	2.19	2.0	110	70 - 130	P	08/15/2025	14:03	LB136861
	Iron	60.5	50.0	121	70 - 130	P	08/15/2025	14:03	LB136861
	Lead	1.01	1.0	101	70 - 130	P	08/15/2025	14:03	LB136861
	Magnesium	522	500	104	70 - 130	P	08/15/2025	14:03	LB136861
	Manganese	1.06	1.0	106	50 - 150	P	08/15/2025	14:03	LB136861
	Nickel	1.16	1.0	116	70 - 130	P	08/15/2025	14:03	LB136861
	Potassium	591	500	118	70 - 130	P	08/15/2025	14:03	LB136861
	Selenium	5.56	5.0	111	70 - 130	P	08/15/2025	14:03	LB136861
	Silver	1.13	1.0	113	70 - 130	P	08/15/2025	14:03	LB136861
	Sodium	562	500	112	70 - 130	P	08/15/2025	14:03	LB136861
	Thallium	1.05	1.0	105	70 - 130	P	08/15/2025	14:03	LB136861
	Vanadium	5.53	5.0	111	70 - 130	P	08/15/2025	14:03	LB136861
	Zinc	4.70	5.0	94	50 - 150	P	08/15/2025	14:03	LB136861
CRI	Aluminum	20.2	20.0	101	70 - 130	P	08/21/2025	12:48	LB136916
	Antimony	2.16	2.0	108	70 - 130	P	08/21/2025	12:48	LB136916
	Arsenic	1.05	1.0	105	70 - 130	P	08/21/2025	12:48	LB136916
	Barium	10.7	10.0	107	70 - 130	P	08/21/2025	12:48	LB136916
	Beryllium	1.18	1.0	118	70 - 130	P	08/21/2025	12:48	LB136916
	Cadmium	0.98	1.0	98	70 - 130	P	08/21/2025	12:48	LB136916
	Calcium	555	500	111	70 - 130	P	08/21/2025	12:48	LB136916
	Chromium	2.13	2.0	106	70 - 130	P	08/21/2025	12:48	LB136916
	Cobalt	1.16	1.0	116	50 - 150	P	08/21/2025	12:48	LB136916
	Copper	2.11	2.0	106	70 - 130	P	08/21/2025	12:48	LB136916
	Iron	59.0	50.0	118	70 - 130	P	08/21/2025	12:48	LB136916
	Lead	1.03	1.0	103	70 - 130	P	08/21/2025	12:48	LB136916

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

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
CRI	Magnesium	524	500	105	70 - 130	P	08/21/2025	12:48	LB136916
	Manganese	1.01	1.0	101	50 - 150	P	08/21/2025	12:48	LB136916
	Nickel	1.19	1.0	119	70 - 130	P	08/21/2025	12:48	LB136916
	Potassium	561	500	112	70 - 130	P	08/21/2025	12:48	LB136916
	Selenium	5.74	5.0	115	70 - 130	P	08/21/2025	12:48	LB136916
	Silver	1.10	1.0	110	70 - 130	P	08/21/2025	12:48	LB136916
	Sodium	558	500	112	70 - 130	P	08/21/2025	12:48	LB136916
	Thallium	1.00	1.0	100	70 - 130	P	08/21/2025	12:48	LB136916
	Vanadium	5.41	5.0	108	70 - 130	P	08/21/2025	12:48	LB136916
	Zinc	5.49	5.0	110	50 - 150	P	08/21/2025	12:48	LB136916



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB18	Mercury	0.076	+/-0.2	U	0.20	CV	08/15/2025	11:45	LB136836

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB54	Mercury	0.076	+/-0.2	U	0.20	CV	08/15/2025	12:13	LB136836
CCB55	Mercury	0.076	+/-0.2	U	0.20	CV	08/15/2025	12:41	LB136836
CCB56	Mercury	0.076	+/-0.2	U	0.20	CV	08/15/2025	13:11	LB136836
CCB57	Mercury	0.076	+/-0.2	U	0.20	CV	08/15/2025	13:18	LB136836

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	1.94	+/-10	U	20.0	P	08/15/2025	13:43	LB136861
	Antimony	0.11	+/-1	U	2.00	P	08/15/2025	13:43	LB136861
	Arsenic	0.089	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Barium	0.21	+/-5	U	10.0	P	08/15/2025	13:43	LB136861
	Beryllium	0.32	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Cadmium	0.34	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Calcium	45.7	+/-250	U	500	P	08/15/2025	13:43	LB136861
	Chromium	0.21	+/-1	U	2.00	P	08/15/2025	13:43	LB136861
	Cobalt	0.070	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Copper	0.30	+/-1	U	2.00	P	08/15/2025	13:43	LB136861
	Iron	7.81	+/-25	U	50.0	P	08/15/2025	13:43	LB136861
	Lead	0.21	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Magnesium	19.5	+/-250	U	500	P	08/15/2025	13:43	LB136861
	Manganese	0.43	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Nickel	0.27	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Potassium	36.4	+/-250	U	500	P	08/15/2025	13:43	LB136861
	Selenium	2.90	+/-2.5	U	5.00	P	08/15/2025	13:43	LB136861
	Silver	0.060	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Sodium	128	+/-250	U	500	P	08/15/2025	13:43	LB136861
	Thallium	0.060	+/-0.5	U	1.00	P	08/15/2025	13:43	LB136861
	Vanadium	0.077	+/-2.5	U	5.00	P	08/15/2025	13:43	LB136861
	Zinc	1.25	+/-2.5	U	5.00	P	08/15/2025	13:43	LB136861

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	1.94	+/-10	U	20.0	P	08/15/2025	13:56	LB136861
	Antimony	0.11	+/-1	J	2.00	P	08/15/2025	13:56	LB136861
	Arsenic	0.089	+/-0.5	U	1.00	P	08/15/2025	13:56	LB136861
	Barium	0.21	+/-5	U	10.0	P	08/15/2025	13:56	LB136861
	Beryllium	0.32	+/-0.5	U	1.00	P	08/15/2025	13:56	LB136861
	Cadmium	0.34	+/-0.5	U	1.00	P	08/15/2025	13:56	LB136861
	Calcium	45.7	+/-250	U	500	P	08/15/2025	13:56	LB136861
	Chromium	0.21	+/-1	U	2.00	P	08/15/2025	13:56	LB136861
	Cobalt	0.070	+/-0.5	U	1.00	P	08/15/2025	13:56	LB136861
	Copper	0.30	+/-1	U	2.00	P	08/15/2025	13:56	LB136861
	Iron	7.81	+/-25	U	50.0	P	08/15/2025	13:56	LB136861
	Lead	0.21	+/-0.5	U	1.00	P	08/15/2025	13:56	LB136861
	Magnesium	19.5	+/-250	U	500	P	08/15/2025	13:56	LB136861
	Manganese	0.43	+/-0.5	U	1.00	P	08/15/2025	13:56	LB136861
	Nickel	0.27	+/-0.5	U	1.00	P	08/15/2025	13:56	LB136861
	Potassium	36.4	+/-250	U	500	P	08/15/2025	13:56	LB136861
	Selenium	2.90	+/-2.5	U	5.00	P	08/15/2025	13:56	LB136861
	Silver	0.060	+/-0.5	U	1.00	P	08/15/2025	13:56	LB136861
	Sodium	128	+/-250	U	500	P	08/15/2025	13:56	LB136861
	Thallium	0.070	+/-0.5	J	1.00	P	08/15/2025	13:56	LB136861
	Vanadium	0.077	+/-2.5	U	5.00	P	08/15/2025	13:56	LB136861
	Zinc	1.25	+/-2.5	U	5.00	P	08/15/2025	13:56	LB136861
CCB02	Aluminum	1.94	+/-10	U	20.0	P	08/15/2025	14:44	LB136861
	Antimony	0.13	+/-1	J	2.00	P	08/15/2025	14:44	LB136861
	Arsenic	0.089	+/-0.5	U	1.00	P	08/15/2025	14:44	LB136861
	Barium	0.21	+/-5	U	10.0	P	08/15/2025	14:44	LB136861
	Beryllium	0.32	+/-0.5	U	1.00	P	08/15/2025	14:44	LB136861
	Cadmium	0.34	+/-0.5	U	1.00	P	08/15/2025	14:44	LB136861
	Calcium	45.7	+/-250	U	500	P	08/15/2025	14:44	LB136861
	Chromium	0.21	+/-1	U	2.00	P	08/15/2025	14:44	LB136861
	Cobalt	0.070	+/-0.5	U	1.00	P	08/15/2025	14:44	LB136861
	Copper	0.30	+/-1	U	2.00	P	08/15/2025	14:44	LB136861
	Iron	9.88	+/-25	J	50.0	P	08/15/2025	14:44	LB136861
	Lead	0.21	+/-0.5	U	1.00	P	08/15/2025	14:44	LB136861
	Magnesium	19.5	+/-250	U	500	P	08/15/2025	14:44	LB136861
	Manganese	0.43	+/-0.5	U	1.00	P	08/15/2025	14:44	LB136861
	Nickel	0.27	+/-0.5	U	1.00	P	08/15/2025	14:44	LB136861
	Potassium	36.4	+/-250	U	500	P	08/15/2025	14:44	LB136861
	Selenium	2.90	+/-2.5	U	5.00	P	08/15/2025	14:44	LB136861

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	0.060	+/-0.5	U	1.00	P	08/15/2025	14:44	LB136861
	Sodium	128	+/-250	U	500	P	08/15/2025	14:44	LB136861
	Thallium	0.10	+/-0.5	J	1.00	P	08/15/2025	14:44	LB136861
	Vanadium	0.077	+/-2.5	U	5.00	P	08/15/2025	14:44	LB136861
	Zinc	1.25	+/-2.5	U	5.00	P	08/15/2025	14:44	LB136861
CCB03	Aluminum	1.94	+/-10	U	20.0	P	08/15/2025	15:24	LB136861
	Antimony	0.14	+/-1	J	2.00	P	08/15/2025	15:24	LB136861
	Arsenic	0.089	+/-0.5	U	1.00	P	08/15/2025	15:24	LB136861
	Barium	0.21	+/-5	U	10.0	P	08/15/2025	15:24	LB136861
	Beryllium	0.32	+/-0.5	U	1.00	P	08/15/2025	15:24	LB136861
	Cadmium	0.34	+/-0.5	U	1.00	P	08/15/2025	15:24	LB136861
	Calcium	45.7	+/-250	U	500	P	08/15/2025	15:24	LB136861
	Chromium	0.21	+/-1	U	2.00	P	08/15/2025	15:24	LB136861
	Cobalt	0.070	+/-0.5	U	1.00	P	08/15/2025	15:24	LB136861
	Copper	0.30	+/-1	U	2.00	P	08/15/2025	15:24	LB136861
	Iron	7.81	+/-25	U	50.0	P	08/15/2025	15:24	LB136861
	Lead	0.21	+/-0.5	U	1.00	P	08/15/2025	15:24	LB136861
	Magnesium	19.5	+/-250	U	500	P	08/15/2025	15:24	LB136861
	Manganese	0.43	+/-0.5	U	1.00	P	08/15/2025	15:24	LB136861
	Nickel	0.27	+/-0.5	U	1.00	P	08/15/2025	15:24	LB136861
	Potassium	36.4	+/-250	U	500	P	08/15/2025	15:24	LB136861
	Selenium	2.90	+/-2.5	U	5.00	P	08/15/2025	15:24	LB136861
	Silver	0.060	+/-0.5	J	1.00	P	08/15/2025	15:24	LB136861
	Sodium	128	+/-250	U	500	P	08/15/2025	15:24	LB136861
	Thallium	0.090	+/-0.5	J	1.00	P	08/15/2025	15:24	LB136861
CCB04	Vanadium	0.077	+/-2.5	U	5.00	P	08/15/2025	15:24	LB136861
	Zinc	1.25	+/-2.5	U	5.00	P	08/15/2025	15:24	LB136861
	Aluminum	1.94	+/-10	U	20.0	P	08/15/2025	16:10	LB136861
	Antimony	0.13	+/-1	J	2.00	P	08/15/2025	16:10	LB136861
	Arsenic	0.20	+/-0.5	J	1.00	P	08/15/2025	16:10	LB136861
	Barium	0.21	+/-5	U	10.0	P	08/15/2025	16:10	LB136861
	Beryllium	0.32	+/-0.5	U	1.00	P	08/15/2025	16:10	LB136861
	Cadmium	0.34	+/-0.5	U	1.00	P	08/15/2025	16:10	LB136861
	Calcium	45.7	+/-250	U	500	P	08/15/2025	16:10	LB136861
	Chromium	0.21	+/-1	U	2.00	P	08/15/2025	16:10	LB136861
	Cobalt	0.070	+/-0.5	U	1.00	P	08/15/2025	16:10	LB136861
	Copper	0.30	+/-1	U	2.00	P	08/15/2025	16:10	LB136861
	Iron	7.81	+/-25	U	50.0	P	08/15/2025	16:10	LB136861
	Lead	0.21	+/-0.5	U	1.00	P	08/15/2025	16:10	LB136861

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	19.5	+/-250	U	500	P	08/15/2025	16:10	LB136861
	Manganese	0.43	+/-0.5	U	1.00	P	08/15/2025	16:10	LB136861
	Nickel	0.27	+/-0.5	U	1.00	P	08/15/2025	16:10	LB136861
	Potassium	36.4	+/-250	U	500	P	08/15/2025	16:10	LB136861
	Selenium	2.90	+/-2.5	U	5.00	P	08/15/2025	16:10	LB136861
	Silver	0.060	+/-0.5	J	1.00	P	08/15/2025	16:10	LB136861
	Sodium	128	+/-250	U	500	P	08/15/2025	16:10	LB136861
	Thallium	0.060	+/-0.5	U	1.00	P	08/15/2025	16:10	LB136861
	Vanadium	0.077	+/-2.5	U	5.00	P	08/15/2025	16:10	LB136861
	Zinc	1.25	+/-2.5	U	5.00	P	08/15/2025	16:10	LB136861
CCB05	Aluminum	1.94	+/-10	U	20.0	P	08/15/2025	16:50	LB136861
	Antimony	0.11	+/-1	U	2.00	P	08/15/2025	16:50	LB136861
	Arsenic	0.089	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Barium	0.21	+/-5	U	10.0	P	08/15/2025	16:50	LB136861
	Beryllium	0.32	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Cadmium	0.34	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Calcium	45.7	+/-250	U	500	P	08/15/2025	16:50	LB136861
	Chromium	0.21	+/-1	U	2.00	P	08/15/2025	16:50	LB136861
	Cobalt	0.070	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Copper	0.30	+/-1	U	2.00	P	08/15/2025	16:50	LB136861
	Iron	7.81	+/-25	U	50.0	P	08/15/2025	16:50	LB136861
	Lead	0.21	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Magnesium	19.5	+/-250	U	500	P	08/15/2025	16:50	LB136861
	Manganese	0.43	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Nickel	0.27	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Potassium	36.4	+/-250	U	500	P	08/15/2025	16:50	LB136861
	Selenium	2.90	+/-2.5	U	5.00	P	08/15/2025	16:50	LB136861
	Silver	0.060	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Sodium	128	+/-250	U	500	P	08/15/2025	16:50	LB136861
	Thallium	0.060	+/-0.5	U	1.00	P	08/15/2025	16:50	LB136861
	Vanadium	0.077	+/-2.5	U	5.00	P	08/15/2025	16:50	LB136861
	Zinc	1.25	+/-2.5	U	5.00	P	08/15/2025	16:50	LB136861

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	1.94	+/-10	U	20.0	P	08/21/2025	12:29	LB136916
	Antimony	0.11	+/-1	U	2.00	P	08/21/2025	12:29	LB136916
	Arsenic	0.089	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Barium	0.21	+/-5	U	10.0	P	08/21/2025	12:29	LB136916
	Beryllium	0.32	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Cadmium	0.34	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Calcium	45.7	+/-250	U	500	P	08/21/2025	12:29	LB136916
	Chromium	0.21	+/-1	U	2.00	P	08/21/2025	12:29	LB136916
	Cobalt	0.070	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Copper	0.30	+/-1	U	2.00	P	08/21/2025	12:29	LB136916
	Iron	7.81	+/-25	U	50.0	P	08/21/2025	12:29	LB136916
	Lead	0.21	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Magnesium	19.5	+/-250	U	500	P	08/21/2025	12:29	LB136916
	Manganese	0.43	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Nickel	0.27	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Potassium	36.4	+/-250	U	500	P	08/21/2025	12:29	LB136916
	Selenium	2.90	+/-2.5	U	5.00	P	08/21/2025	12:29	LB136916
	Silver	0.060	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Sodium	128	+/-250	U	500	P	08/21/2025	12:29	LB136916
	Thallium	0.060	+/-0.5	U	1.00	P	08/21/2025	12:29	LB136916
	Vanadium	0.077	+/-2.5	U	5.00	P	08/21/2025	12:29	LB136916
	Zinc	1.25	+/-2.5	U	5.00	P	08/21/2025	12:29	LB136916

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	1.94	+/-10	U	20.0	P	08/21/2025	12:44	LB136916
	Antimony	0.11	+/-1	U	2.00	P	08/21/2025	12:44	LB136916
	Arsenic	0.089	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Barium	0.21	+/-5	U	10.0	P	08/21/2025	12:44	LB136916
	Beryllium	0.32	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Cadmium	0.34	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Calcium	45.7	+/-250	U	500	P	08/21/2025	12:44	LB136916
	Chromium	0.21	+/-1	U	2.00	P	08/21/2025	12:44	LB136916
	Cobalt	0.070	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Copper	0.30	+/-1	U	2.00	P	08/21/2025	12:44	LB136916
	Iron	7.81	+/-25	U	50.0	P	08/21/2025	12:44	LB136916
	Lead	0.21	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Magnesium	19.5	+/-250	U	500	P	08/21/2025	12:44	LB136916
	Manganese	0.43	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Nickel	0.27	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Potassium	36.4	+/-250	U	500	P	08/21/2025	12:44	LB136916
	Selenium	2.90	+/-2.5	U	5.00	P	08/21/2025	12:44	LB136916
	Silver	0.060	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Sodium	128	+/-250	U	500	P	08/21/2025	12:44	LB136916
	Thallium	0.060	+/-0.5	U	1.00	P	08/21/2025	12:44	LB136916
	Vanadium	0.077	+/-2.5	U	5.00	P	08/21/2025	12:44	LB136916
	Zinc	1.25	+/-2.5	U	5.00	P	08/21/2025	12:44	LB136916
CCB02	Aluminum	1.94	+/-10	U	20.0	P	08/21/2025	13:43	LB136916
	Antimony	0.15	+/-1	J	2.00	P	08/21/2025	13:43	LB136916
	Arsenic	0.089	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Barium	0.21	+/-5	U	10.0	P	08/21/2025	13:43	LB136916
	Beryllium	0.32	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Cadmium	0.34	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Calcium	45.7	+/-250	U	500	P	08/21/2025	13:43	LB136916
	Chromium	0.21	+/-1	U	2.00	P	08/21/2025	13:43	LB136916
	Cobalt	0.070	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Copper	0.30	+/-1	U	2.00	P	08/21/2025	13:43	LB136916
	Iron	7.81	+/-25	U	50.0	P	08/21/2025	13:43	LB136916
	Lead	0.21	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Magnesium	19.5	+/-250	U	500	P	08/21/2025	13:43	LB136916
	Manganese	0.43	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Nickel	0.27	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Potassium	36.4	+/-250	U	500	P	08/21/2025	13:43	LB136916
	Selenium	2.90	+/-2.5	U	5.00	P	08/21/2025	13:43	LB136916

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	0.060	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Sodium	128	+/-250	U	500	P	08/21/2025	13:43	LB136916
	Thallium	0.060	+/-0.5	U	1.00	P	08/21/2025	13:43	LB136916
	Vanadium	0.077	+/-2.5	U	5.00	P	08/21/2025	13:43	LB136916
	Zinc	1.25	+/-2.5	U	5.00	P	08/21/2025	13:43	LB136916
CCB03	Aluminum	1.94	+/-10	U	20.0	P	08/21/2025	14:34	LB136916
	Antimony	0.15	+/-1	J	2.00	P	08/21/2025	14:34	LB136916
	Arsenic	0.089	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Barium	0.21	+/-5	U	10.0	P	08/21/2025	14:34	LB136916
	Beryllium	0.32	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Cadmium	0.34	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Calcium	45.7	+/-250	U	500	P	08/21/2025	14:34	LB136916
	Chromium	0.21	+/-1	U	2.00	P	08/21/2025	14:34	LB136916
	Cobalt	0.070	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Copper	0.30	+/-1	U	2.00	P	08/21/2025	14:34	LB136916
	Iron	7.81	+/-25	U	50.0	P	08/21/2025	14:34	LB136916
	Lead	0.21	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Magnesium	19.5	+/-250	U	500	P	08/21/2025	14:34	LB136916
	Manganese	0.43	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Nickel	0.27	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Potassium	36.4	+/-250	U	500	P	08/21/2025	14:34	LB136916
	Selenium	2.90	+/-2.5	U	5.00	P	08/21/2025	14:34	LB136916
	Silver	0.060	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Sodium	128	+/-250	U	500	P	08/21/2025	14:34	LB136916
	Thallium	0.060	+/-0.5	U	1.00	P	08/21/2025	14:34	LB136916
	Vanadium	0.077	+/-2.5	U	5.00	P	08/21/2025	14:34	LB136916
	Zinc	1.25	+/-2.5	U	5.00	P	08/21/2025	14:34	LB136916
CCB04	Aluminum	1.94	+/-10	U	20.0	P	08/21/2025	15:18	LB136916
	Antimony	0.11	+/-1	U	2.00	P	08/21/2025	15:18	LB136916
	Arsenic	0.089	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916
	Barium	0.21	+/-5	U	10.0	P	08/21/2025	15:18	LB136916
	Beryllium	0.32	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916
	Cadmium	0.34	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916
	Calcium	45.7	+/-250	U	500	P	08/21/2025	15:18	LB136916
	Chromium	0.21	+/-1	U	2.00	P	08/21/2025	15:18	LB136916
	Cobalt	0.070	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916
	Copper	0.30	+/-1	U	2.00	P	08/21/2025	15:18	LB136916
	Iron	7.81	+/-25	U	50.0	P	08/21/2025	15:18	LB136916
	Lead	0.21	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	19.5	+/-250	U	500	P	08/21/2025	15:18	LB136916
	Manganese	0.43	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916
	Nickel	0.27	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916
	Potassium	36.4	+/-250	U	500	P	08/21/2025	15:18	LB136916
	Selenium	2.90	+/-2.5	U	5.00	P	08/21/2025	15:18	LB136916
	Silver	0.060	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916
	Sodium	128	+/-250	U	500	P	08/21/2025	15:18	LB136916
	Thallium	0.060	+/-0.5	U	1.00	P	08/21/2025	15:18	LB136916
	Vanadium	0.077	+/-2.5	U	5.00	P	08/21/2025	15:18	LB136916
	Zinc	1.25	+/-2.5	U	5.00	P	08/21/2025	15:18	LB136916

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169249BL		WATER		Batch Number:	PB169249		Prep Date:	08/14/2025	
	Mercury	0.076	<0.2	U	0.20	CV	08/15/2025	12:22	LB136836

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Instrument: P7

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169250BL	WATER			Batch Number:	PB169250		Prep Date:	08/14/2025	
	Aluminum	1.94	<10	U	20.0	P	08/21/2025	13:46	LB136916
	Antimony	0.11	<1	U	2.00	P	08/21/2025	13:46	LB136916
	Arsenic	0.089	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Barium	0.21	<5	U	10.0	P	08/21/2025	13:46	LB136916
	Beryllium	0.32	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Cadmium	0.34	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Calcium	45.7	<250	U	500	P	08/21/2025	13:46	LB136916
	Chromium	0.21	<1	U	2.00	P	08/21/2025	13:46	LB136916
	Cobalt	0.070	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Copper	0.30	<1	U	2.00	P	08/21/2025	13:46	LB136916
	Iron	7.81	<25	U	50.0	P	08/21/2025	13:46	LB136916
	Lead	0.21	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Magnesium	19.5	<250	U	500	P	08/21/2025	13:46	LB136916
	Manganese	0.43	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Nickel	0.27	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Potassium	36.4	<250	U	500	P	08/21/2025	13:46	LB136916
	Selenium	2.90	<2.5	U	5.00	P	08/21/2025	13:46	LB136916
	Silver	0.060	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Sodium	128	<250	U	500	P	08/21/2025	13:46	LB136916
	Thallium	0.060	<0.5	U	1.00	P	08/21/2025	13:46	LB136916
	Vanadium	0.077	<2.5	U	5.00	P	08/21/2025	13:46	LB136916
	Zinc	1.25	<2.5	U	5.00	P	08/21/2025	13:46	LB136916

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>JACOBS Engineering Group, Inc.</u>	SDG No.: <u>Q2842</u>
Contract: <u>JACO05</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P7</u>

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	89100	100000	89	0	0	08/15/2025	13:46	LB136861
	Antimony	1.11	1.5	74	-2.5	5.5	08/15/2025	13:46	LB136861
	Arsenic	0.29	0.1	290	-1.9	2.1	08/15/2025	13:46	LB136861
	Barium	1.35	1.2	112	-18.8	21.2	08/15/2025	13:46	LB136861
	Beryllium	0.28			-2	2	08/15/2025	13:46	LB136861
	Cadmium	0.17	0.7	24	-1.3	2.7	08/15/2025	13:46	LB136861
	Calcium	102000	100000	102	0	0	08/15/2025	13:46	LB136861
	Chromium	20.0	21.0	95	17	25	08/15/2025	13:46	LB136861
	Cobalt	1.28	1.0	128	-1	3	08/15/2025	13:46	LB136861
	Copper	7.41	8.0	93	4	12	08/15/2025	13:46	LB136861
	Iron	102000	100000	102	0	0	08/15/2025	13:46	LB136861
	Lead	4.10	4.0	102	2	6	08/15/2025	13:46	LB136861
	Magnesium	91200	100000	91	0	0	08/15/2025	13:46	LB136861
	Manganese	7.52	7.0	107	5	9	08/15/2025	13:46	LB136861
	Nickel	5.29	6.0	88	4	8	08/15/2025	13:46	LB136861
	Potassium	102000	100000	102	0	0	08/15/2025	13:46	LB136861
	Selenium	0	0.3		-9.7	10	08/15/2025	13:46	LB136861
	Silver	0.050			-2	2	08/15/2025	13:46	LB136861
	Sodium	100000	100000	100	0	0	08/15/2025	13:46	LB136861
	Thallium	0.040			-2	2	08/15/2025	13:46	LB136861
	Vanadium	0.22	0.5	44	-9.5	10.5	08/15/2025	13:46	LB136861
	Zinc	9.17	11.0	83	1	21	08/15/2025	13:46	LB136861
ICSAB01	Aluminum	89700	100000	90	0	0	08/15/2025	13:50	LB136861
	Antimony	20.9	22.0	95	18	26	08/15/2025	13:50	LB136861
	Arsenic	20.2	19.0	106	16.2	21.9	08/15/2025	13:50	LB136861
	Barium	21.7	22.0	99	2	42	08/15/2025	13:50	LB136861
	Beryllium	21.4	19.0	113	16.2	21.9	08/15/2025	13:50	LB136861
	Cadmium	20.4	20.0	102	17	23	08/15/2025	13:50	LB136861
	Calcium	102000	100000	102	0	0	08/15/2025	13:50	LB136861
	Chromium	40.6	40.0	102	34	46	08/15/2025	13:50	LB136861
	Cobalt	21.9	20.0	110	17	23	08/15/2025	13:50	LB136861
	Copper	26.5	25.0	106	21	29	08/15/2025	13:50	LB136861
	Iron	102000	100000	102	0	0	08/15/2025	13:50	LB136861
	Lead	23.6	25.0	94	21.3	28.8	08/15/2025	13:50	LB136861
	Magnesium	91800	100000	92	0	0	08/15/2025	13:50	LB136861
	Manganese	28.4	27.0	105	23	31.1	08/15/2025	13:50	LB136861
	Nickel	26.6	24.0	111	20.4	27.6	08/15/2025	13:50	LB136861
	Potassium	103000	100000	103	0	0	08/15/2025	13:50	LB136861
	Selenium	19.6	19.0	103	9	29	08/15/2025	13:50	LB136861
	Silver	19.9	18.0	111	15.3	20.7	08/15/2025	13:50	LB136861
	Sodium	101000	100000	101	0	0	08/15/2025	13:50	LB136861
	Thallium	20.4	21.0	97	17.9	24.2	08/15/2025	13:50	LB136861

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>JACOBS Engineering Group, Inc.</u>	SDG No.: <u>Q2842</u>
Contract: <u>JACO05</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P7</u>

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	20.3	19.0	107	9	29	08/15/2025	13:50	LB136861
	Zinc	27.1	29.0	93	19	39	08/15/2025	13:50	LB136861
ICSA01	Aluminum	93700	100000	94	0	0	08/21/2025	12:33	LB136916
	Antimony	1.09	1.5	73	-2.5	5.5	08/21/2025	12:33	LB136916
	Arsenic	0.28	0.1	280	-1.9	2.1	08/21/2025	12:33	LB136916
	Barium	1.42	1.2	118	-18.8	21.2	08/21/2025	12:33	LB136916
	Beryllium	0.27			-2	2	08/21/2025	12:33	LB136916
	Cadmium	0	0.7		-1.3	2.7	08/21/2025	12:33	LB136916
	Calcium	100000	100000	100	0	0	08/21/2025	12:33	LB136916
	Chromium	20.1	21.0	96	17	25	08/21/2025	12:33	LB136916
	Cobalt	1.30	1.0	130	-1	3	08/21/2025	12:33	LB136916
	Copper	7.38	8.0	92	4	12	08/21/2025	12:33	LB136916
	Iron	100000	100000	100	0	0	08/21/2025	12:33	LB136916
	Lead	4.27	4.0	107	2	6	08/21/2025	12:33	LB136916
	Magnesium	96000	100000	96	0	0	08/21/2025	12:33	LB136916
	Manganese	7.22	7.0	103	5	9	08/21/2025	12:33	LB136916
	Nickel	5.50	6.0	92	4	8	08/21/2025	12:33	LB136916
	Potassium	101000	100000	101	0	0	08/21/2025	12:33	LB136916
	Selenium	0.050	0.3	17	-9.7	10	08/21/2025	12:33	LB136916
	Silver	0.050			-2	2	08/21/2025	12:33	LB136916
	Sodium	105000	100000	105	0	0	08/21/2025	12:33	LB136916
	Thallium	0.040			-2	2	08/21/2025	12:33	LB136916
	Vanadium	0.19	0.5	38	-9.5	10.5	08/21/2025	12:33	LB136916
	Zinc	9.71	11.0	88	1	21	08/21/2025	12:33	LB136916
ICSAB01	Aluminum	93100	100000	93	0	0	08/21/2025	12:36	LB136916
	Antimony	21.4	22.0	97	18	26	08/21/2025	12:36	LB136916
	Arsenic	20.3	19.0	107	16.2	21.9	08/21/2025	12:36	LB136916
	Barium	21.8	22.0	99	2	42	08/21/2025	12:36	LB136916
	Beryllium	20.8	19.0	110	16.2	21.9	08/21/2025	12:36	LB136916
	Cadmium	20.7	20.0	104	17	23	08/21/2025	12:36	LB136916
	Calcium	99700	100000	100	0	0	08/21/2025	12:36	LB136916
	Chromium	40.2	40.0	100	34	46	08/21/2025	12:36	LB136916
	Cobalt	21.6	20.0	108	17	23	08/21/2025	12:36	LB136916
	Copper	26.5	25.0	106	21	29	08/21/2025	12:36	LB136916
	Iron	101000	100000	101	0	0	08/21/2025	12:36	LB136916
	Lead	23.3	25.0	93	21.3	28.8	08/21/2025	12:36	LB136916
	Magnesium	93700	100000	94	0	0	08/21/2025	12:36	LB136916
	Manganese	25.7	27.0	95	23	31.1	08/21/2025	12:36	LB136916
	Nickel	26.0	24.0	108	20.4	27.6	08/21/2025	12:36	LB136916
	Potassium	101000	100000	101	0	0	08/21/2025	12:36	LB136916
	Selenium	20.0	19.0	105	9	29	08/21/2025	12:36	LB136916
	Silver	20.2	18.0	112	15.3	20.7	08/21/2025	12:36	LB136916

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>JACOBS Engineering Group, Inc.</u>	SDG No.: <u>Q2842</u>
Contract: <u>JACO05</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P7</u>

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	Sodium	104000	100000	104	0	0	08/21/2025	12:36	LB136916
	Thallium	19.8	21.0	94	17.9	24.2	08/21/2025	12:36	LB136916
	Vanadium	20.0	19.0	105	9	29	08/21/2025	12:36	LB136916
	Zinc	29.0	29.0	100	19	39	08/21/2025	12:36	LB136916



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2842
contract: JACO05 **lab code:** ACE
matrix: Water **sample id:** Q2842-03 **client id:** MW-17B-55.5-08122025MS
Percent Solids for Sample: NA **Spiked ID:** Q2842-04 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	8440		31.8		10000	84		P
Antimony	ug/L	75 - 125	464		0.22	J	500	93		P
Arsenic	ug/L	75 - 125	489		0.63	J	500	98		P
Barium	ug/L	75 - 125	2580		448		2500	85		P
Beryllium	ug/L	75 - 125	485		1.00	U	500	97		P
Cadmium	ug/L	75 - 125	473		1.00	U	500	95		P
Calcium	ug/L	75 - 125	73500		29600		50000	88		P
Chromium	ug/L	75 - 125	456		2.00	U	500	91		P
Cobalt	ug/L	75 - 125	476		8.23		500	94		P
Copper	ug/L	75 - 125	4350		2.00	U	5000	87		P
Iron	ug/L	75 - 125	28900		7590		25000	85		P
Lead	ug/L	75 - 125	2320		0.61	J	2500	93		P
Magnesium	ug/L	75 - 125	55100		9260		50000	92		P
Manganese	ug/L	75 - 125	4900		618		5000	86		P
Nickel	ug/L	75 - 125	478		11.3		500	93		P
Mercury	ug/L	82 - 119	3.75		0.20	U	4.0	94		CV
Potassium	ug/L	75 - 125	29700		7950		25000	87		P
Selenium	ug/L	75 - 125	475		5.00	U	500	95		P
Silver	ug/L	75 - 125	85.3		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	52200		6170		50000	92		P
Thallium	ug/L	75 - 125	462		0.21	J	500	92		P
Vanadium	ug/L	75 - 125	467		0.29	J	500	93		P
Zinc	ug/L	75 - 125	4520		3.08	J	5000	90		P

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2842
contract: JACO05 **lab code:** ACE
matrix: Water **sample id:** Q2842-03 **client id:** MW-17B-55.5-08122025MSD
Percent Solids for Sample: NA **Spiked ID:** Q2842-05 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	8470		31.8		10000	84		P
Antimony	ug/L	75 - 125	482		0.22	J	500	96		P
Arsenic	ug/L	75 - 125	467		0.63	J	500	93		P
Barium	ug/L	75 - 125	2650		448		2500	88		P
Beryllium	ug/L	75 - 125	489		1.00	U	500	98		P
Cadmium	ug/L	75 - 125	484		1.00	U	500	97		P
Calcium	ug/L	75 - 125	74200		29600		50000	89		P
Chromium	ug/L	75 - 125	455		2.00	U	500	91		P
Cobalt	ug/L	75 - 125	481		8.23		500	95		P
Copper	ug/L	75 - 125	4370		2.00	U	5000	87		P
Iron	ug/L	75 - 125	29000		7590		25000	86		P
Lead	ug/L	75 - 125	2370		0.61	J	2500	95		P
Magnesium	ug/L	75 - 125	55000		9260		50000	91		P
Manganese	ug/L	75 - 125	4960		618		5000	87		P
Nickel	ug/L	75 - 125	483		11.3		500	94		P
Mercury	ug/L	82 - 119	3.89		0.20	U	4.0	97		CV
Potassium	ug/L	75 - 125	29900		7950		25000	88		P
Selenium	ug/L	75 - 125	469		5.00	U	500	94		P
Silver	ug/L	75 - 125	87.6		1.00	U	500	18	N	P
Sodium	ug/L	75 - 125	51900		6170		50000	92		P
Thallium	ug/L	75 - 125	477		0.21	J	500	95		P
Vanadium	ug/L	75 - 125	476		0.29	J	500	95		P
Zinc	ug/L	75 - 125	4550		3.08	J	5000	91		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2842
contract: JACO05 **lab code:** ACE
matrix: Water **sample id:** Q2842-09 **client id:** MW-17B-55.5-08122025MS
Percent Solids for Sample: NA **Spiked ID:** Q2842-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	8320		12.3	J	10000	83		P
Antimony	ug/L	75 - 125	474		0.23	J	500	95		P
Arsenic	ug/L	75 - 125	492		0.54	J	500	98		P
Barium	ug/L	75 - 125	2600		431		2500	87		P
Beryllium	ug/L	75 - 125	474		1.00	U	500	95		P
Cadmium	ug/L	75 - 125	473		1.00	U	500	95		P
Calcium	ug/L	75 - 125	72300		31900		50000	81		P
Chromium	ug/L	75 - 125	459		2.00	U	500	92		P
Cobalt	ug/L	75 - 125	475		8.13		500	93		P
Copper	ug/L	75 - 125	4250		2.00	U	5000	85		P
Iron	ug/L	75 - 125	27000		7020		25000	80		P
Lead	ug/L	75 - 125	2300		1.00	U	2500	92		P
Magnesium	ug/L	75 - 125	55500		9810		50000	91		P
Manganese	ug/L	75 - 125	4810		642		5000	83		P
Nickel	ug/L	75 - 125	463		10.3		500	91		P
Potassium	ug/L	75 - 125	29100		8190		25000	83		P
Selenium	ug/L	75 - 125	468		5.00	U	500	94		P
Silver	ug/L	75 - 125	85.3		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	53100		6520		50000	93		P
Thallium	ug/L	75 - 125	459		0.39	J	500	92		P
Vanadium	ug/L	75 - 125	471		0.17	J	500	94		P
Zinc	ug/L	75 - 125	4430		1.38	J	5000	89		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2842
contract: JACO05 **lab code:** ACE
matrix: Water **sample id:** Q2842-09 **client id:** MW-17B-55.5-08122025MSD
Percent Solids for Sample: NA **Spiked ID:** Q2842-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	8320		12.3	J	10000	83		P
Antimony	ug/L	75 - 125	467		0.23	J	500	93		P
Arsenic	ug/L	75 - 125	494		0.54	J	500	99		P
Barium	ug/L	75 - 125	2520		431		2500	83		P
Beryllium	ug/L	75 - 125	469		1.00	U	500	94		P
Cadmium	ug/L	75 - 125	462		1.00	U	500	92		P
Calcium	ug/L	75 - 125	72600		31900		50000	81		P
Chromium	ug/L	75 - 125	457		2.00	U	500	91		P
Cobalt	ug/L	75 - 125	465		8.13		500	91		P
Copper	ug/L	75 - 125	4300		2.00	U	5000	86		P
Iron	ug/L	75 - 125	26700		7020		25000	79		P
Lead	ug/L	75 - 125	2270		1.00	U	2500	91		P
Magnesium	ug/L	75 - 125	55800		9810		50000	92		P
Manganese	ug/L	75 - 125	4930		642		5000	86		P
Nickel	ug/L	75 - 125	462		10.3		500	90		P
Potassium	ug/L	75 - 125	28700		8190		25000	82		P
Selenium	ug/L	75 - 125	468		5.00	U	500	94		P
Silver	ug/L	75 - 125	82.8		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	53300		6520		50000	94		P
Thallium	ug/L	75 - 125	454		0.39	J	500	91		P
Vanadium	ug/L	75 - 125	472		0.17	J	500	94		P
Zinc	ug/L	75 - 125	4430		1.38	J	5000	89		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Matrix: Water

Level: LOW

Client ID: MW-17B-55.5-08122025A

Sample ID: Q2842-03 **Spiked ID:** Q2842-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	75 - 125	85.7		1.00	U	500	17	N	P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2842
Contract: JACO05 **Lab Code:** ACE
Matrix: Water **Sample ID:** Q2842-03 **Client ID:** MW-17B-55.5-08122025DUP
Percent Solids for Sample: NA **Duplicate ID** Q2842-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	31.8		30.1		5		P
Antimony	ug/L	20	0.22	J	0.20	J	10		P
Arsenic	ug/L	20	0.63	J	0.64	J	2		P
Barium	ug/L	20	448		436		3		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	29600		28900		2		P
Chromium	ug/L	20	2.00	U	0.31	J	200.0		P
Cobalt	ug/L	20	8.23		8.18		1		P
Copper	ug/L	20	2.00	U	2.00	U			P
Iron	ug/L	20	7590		7560		0		P
Lead	ug/L	20	0.61	J	1.00	U	200.0		P
Magnesium	ug/L	20	9260		9200		1		P
Manganese	ug/L	20	618		617		0		P
Nickel	ug/L	20	11.3		11.1		2		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Potassium	ug/L	20	7950		8030		1		P
Selenium	ug/L	20	5.00	U	5.00	U			P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	6170		6120		1		P
Thallium	ug/L	20	0.21	J	0.19	J	10		P
Vanadium	ug/L	20	0.29	J	0.29	J	0		P
Zinc	ug/L	20	3.08	J	3.40	J	10		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2842
Contract: JACO05 **Lab Code:** ACE
Matrix: Water **Sample ID:** Q2842-04 **Client ID:** MW-17B-55.5-08122025MSD
Percent Solids for Sample: NA **Duplicate ID** Q2842-05 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	8440		8470		0		P
Antimony	ug/L	20	464		482		4		P
Arsenic	ug/L	20	489		467		5		P
Barium	ug/L	20	2580		2650		3		P
Beryllium	ug/L	20	485		489		1		P
Cadmium	ug/L	20	473		484		2		P
Calcium	ug/L	20	73500		74200		1		P
Chromium	ug/L	20	456		455		0		P
Cobalt	ug/L	20	476		481		1		P
Copper	ug/L	20	4350		4370		0		P
Iron	ug/L	20	28900		29000		0		P
Lead	ug/L	20	2320		2370		2		P
Magnesium	ug/L	20	55100		55000		0		P
Manganese	ug/L	20	4900		4960		1		P
Nickel	ug/L	20	478		483		1		P
Mercury	ug/L	20	3.75		3.89		4		CV
Potassium	ug/L	20	29700		29900		1		P
Selenium	ug/L	20	475		469		1		P
Silver	ug/L	20	85.3		87.6		3		P
Sodium	ug/L	20	52200		51900		1		P
Thallium	ug/L	20	462		477		3		P
Vanadium	ug/L	20	467		476		2		P
Zinc	ug/L	20	4520		4550		1		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2842
Contract: JACO05 **Lab Code:** ACE
Matrix: Water **Sample ID:** Q2842-10 **Client ID:** MW-17B-55.5-08122025MSD
Percent Solids for Sample: NA **Duplicate ID** Q2842-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	8320		8320		0		P
Antimony	ug/L	20	474		467		1		P
Arsenic	ug/L	20	492		494		0		P
Barium	ug/L	20	2600		2520		3		P
Beryllium	ug/L	20	474		469		1		P
Cadmium	ug/L	20	473		462		2		P
Calcium	ug/L	20	72300		72600		0		P
Chromium	ug/L	20	459		457		0		P
Cobalt	ug/L	20	475		465		2		P
Copper	ug/L	20	4250		4300		1		P
Iron	ug/L	20	27000		26700		1		P
Lead	ug/L	20	2300		2270		1		P
Magnesium	ug/L	20	55500		55800		1		P
Manganese	ug/L	20	4810		4930		2		P
Nickel	ug/L	20	463		462		0		P
Potassium	ug/L	20	29100		28700		1		P
Selenium	ug/L	20	468		468		0		P
Silver	ug/L	20	85.3		82.8		3		P
Sodium	ug/L	20	53100		53300		0		P
Thallium	ug/L	20	459		454		1		P
Vanadium	ug/L	20	471		472		0		P
Zinc	ug/L	20	4430		4430		0		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169249BS Mercury	ug/L	4.0	4.19		105	82 - 119	CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>JACOBS Engineering Group, Inc.</u>	SDG No.:	<u>Q2842</u>
Contract:	<u>JACO05</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169250BS							
Aluminum	ug/L	10000	9810		98	80 - 120	P
Antimony	ug/L	500	502		100	80 - 120	P
Arsenic	ug/L	500	486		97	80 - 120	P
Barium	ug/L	2500	2530		101	80 - 120	P
Beryllium	ug/L	500	493		99	80 - 120	P
Cadmium	ug/L	500	511		102	80 - 120	P
Calcium	ug/L	50000	50400		101	80 - 120	P
Chromium	ug/L	500	485		97	80 - 120	P
Cobalt	ug/L	500	488		98	80 - 120	P
Copper	ug/L	5000	5000		100	80 - 120	P
Iron	ug/L	25000	25700		103	80 - 120	P
Lead	ug/L	2500	2420		97	80 - 120	P
Magnesium	ug/L	50000	48900		98	80 - 120	P
Manganese	ug/L	5000	4890		98	80 - 120	P
Nickel	ug/L	500	488		98	80 - 120	P
Potassium	ug/L	25000	24600		98	80 - 120	P
Selenium	ug/L	500	505		101	80 - 120	P
Silver	ug/L	500	517		103	80 - 120	P
Sodium	ug/L	50000	50200		100	80 - 120	P
Thallium	ug/L	500	488		98	80 - 120	P
Vanadium	ug/L	500	485		97	80 - 120	P
Zinc	ug/L	5000	4950		99	80 - 120	P

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/15/2025

Run Number: LB136861

End Date : 08/15/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1234	100		100		100		100		100	
S2	S2	1248	103		101		94		100		102	
S3	S3	1251	105		103		94		102		103	
S4	S4	1254	106		102		95		101		103	
S5	S5	1257	105		100		94		101		104	
S6	S6	1300	104		100		94		100		102	
S7	S7	1303	105		102		98		102		107	
S8	S8	1306	107		104		98		98		107	
ICV01	ICV01	1322	99		104		98		105		102	
LLICV01	LLICV01	1340	99		104		98		105		102	
ICB01	ICB01	1343	100		106		98		105		104	
ICSA01	ICSA01	1346	97		103		101		107		108	
ICSAB01	ICSAB01	1350	89		105		103		107		111	
CCV01	CCV01	1353	90		107		105		106		112	
CCB01	CCB01	1356	88		103		99		106		103	
CRI	CRI	1403	90		102		98		105		103	
ZZZZZZ	ZZZZZZ	1410										
ZZZZZZ	ZZZZZZ	1413										
ZZZZZZ	ZZZZZZ	1419										
ZZZZZZ	ZZZZZZ	1423										
ZZZZZZ	ZZZZZZ	1426										
ZZZZZZ	ZZZZZZ	1429										
ZZZZZZ	ZZZZZZ	1432										
ZZZZZZ	ZZZZZZ	1435										
ZZZZZZ	ZZZZZZ	1438										
CCV02	CCV02	1441	93		108		104		107		110	
CCB02	CCB02	1444	90		105		100		106		104	
ZZZZZZ	ZZZZZZ	1450										
ZZZZZZ	ZZZZZZ	1453										
ZZZZZZ	ZZZZZZ	1456										
Q2842-03	MW-17B-55.5	1500	97		119		115		121		115	
Q2842-03DUP	MW-17B-55.5	1503	97		120		116		120		116	
Q2842-03L	MW-17B-55.5	1506	88		106		103		109		105	
Q2842-04	MW-17B-55.5	1509	99		119		114		119		120	
Q2842-05	MW-17B-55.5	1512	97		117		115		118		117	
Q2842-03A	MW-17B-55.5	1515	97		118		114		120		118	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/15/2025

Run Number: LB136861

End Date : 08/15/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
Q2842-09	MW-17B-55.5	1518	97		116		115		120		118	
CCV03	CCV03	1521	91		108		105		106		109	
CCB03	CCB03	1524	91		102		99		106		103	
Q2842-10	MW-17B-55.5	1527	105		121		114		121		120	
Q2842-11	MW-17B-55.5	1530	102		119		114		119		121	
ZZZZZZ	ZZZZZZ	1532										
ZZZZZZ	ZZZZZZ	1536										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1542										
ZZZZZZ	ZZZZZZ	1545										
ZZZZZZ	ZZZZZZ	1549										
ZZZZZZ	ZZZZZZ	1552										
ZZZZZZ	ZZZZZZ	1555										
CCV04	CCV04	1558	99		115		110		111		115	
CCB04	CCB04	1610	89		101		101		108		110	

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/15/2025

Run Number: LB136861

End Date : 08/15/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1234	100		100		100		100		100	
S2	S2	1248	100		94		99		100		98	
S3	S3	1251	102		95		101		102		101	
S4	S4	1254	102		94		100		101		101	
S5	S5	1257	101		94		100		101		101	
S6	S6	1300	104		98		102		103		104	
S7	S7	1303	102		96		100		105		104	
S8	S8	1306	106		100		98		106		106	
ICV01	ICV01	1322	104		98		104		103		103	
LLICV01	LLICV01	1340	103		98		103		103		101	
ICB01	ICB01	1343	104		100		105		105		103	
ICSA01	ICSA01	1346	105		101		105		108		107	
ICSAB01	ICSAB01	1350	107		103		107		109		109	
CCV01	CCV01	1353	110		106		106		111		109	
CCB01	CCB01	1356	104		100		105		103		102	
CRI	CRI	1403	103		100		105		104		103	
ZZZZZZ	ZZZZZZ	1410										
ZZZZZZ	ZZZZZZ	1413										
ZZZZZZ	ZZZZZZ	1419										
ZZZZZZ	ZZZZZZ	1423										
ZZZZZZ	ZZZZZZ	1426										
ZZZZZZ	ZZZZZZ	1429										
ZZZZZZ	ZZZZZZ	1432										
ZZZZZZ	ZZZZZZ	1435										
ZZZZZZ	ZZZZZZ	1438										
CCV02	CCV02	1441	108		105		106		109		107	
CCB02	CCB02	1444	104		102		106		104		102	
ZZZZZZ	ZZZZZZ	1450										
ZZZZZZ	ZZZZZZ	1453										
ZZZZZZ	ZZZZZZ	1456										
Q2842-03	MW-17B-55.5	1500	118		115		120		119		116	
Q2842-03DUP	MW-17B-55.5	1503	117		113		119		117		117	
Q2842-03L	MW-17B-55.5	1506	108		105		111		109		106	
Q2842-04	MW-17B-55.5	1509	117		114		118		118		118	
Q2842-05	MW-17B-55.5	1512	116		114		116		118		117	
Q2842-03A	MW-17B-55.5	1515	117		114		119		119		119	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/15/2025

Run Number: LB136861

End Date : 08/15/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
Q2842-09	MW-17B-55.5	1518	116		113		120		118		116	
CCV03	CCV03	1521	108		105		106		110		107	
CCB03	CCB03	1524	103		101		105		104		100	
Q2842-10	MW-17B-55.5	1527	118		113		119		119		117	
Q2842-11	MW-17B-55.5	1530	118		113		118		121		118	
ZZZZZZ	ZZZZZZ	1532										
ZZZZZZ	ZZZZZZ	1536										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1542										
ZZZZZZ	ZZZZZZ	1545										
ZZZZZZ	ZZZZZZ	1549										
ZZZZZZ	ZZZZZZ	1552										
ZZZZZZ	ZZZZZZ	1555										
CCV04	CCV04	1558	115		111		110		115		113	
CCB04	CCB04	1610	103		101		108		107		104	

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/21/2025

Run Number: LB136916

End Date : 08/21/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1133	100		100		100		100		100	
S2	S2	1139	106		103		101		103		101	
S3	S3	1143	108		102		102		102		100	
S4	S4	1146	107		101		101		100		100	
S5	S5	1149	109		102		102		100		104	
S6	S6	1152	110		103		104		100		106	
S7	S7	1154	108		103		103		99		106	
S8	S8	1157	107		103		103		95		104	
ICV01	ICV01	1215	105		99		98		98		98	
LLICV01	LLICV01	1226	103		97		98		98		99	
ICB01	ICB01	1229	103		99		100		97		98	
ICSA01	ICSA01	1233	104		99		103		98		105	
ICSAB01	ICSAB01	1236	102		101		103		100		104	
CCV01	CCV01	1239	104		105		107		101		106	
CCB01	CCB01	1244	99		102		104		103		101	
CRI	CRI	1248	99		101		104		102		101	
CCV02	CCV02	1340	107		103		104		98		103	
CCB02	CCB02	1343	103		99		100		100		98	
PB169250BL	PB169250BL	1346	101		98		99		98		98	
PB169250BS	PB169250BS	1350	105		103		102		99		102	
ZZZZZZ	ZZZZZZ	1352										
ZZZZZZ	ZZZZZZ	1356										
ZZZZZZ	ZZZZZZ	1358										
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1405										
ZZZZZZ	ZZZZZZ	1408										
ZZZZZZ	ZZZZZZ	1411										
ZZZZZZ	ZZZZZZ	1414										
CCV03	CCV03	1432	103		107		107		99		105	
CCB03	CCB03	1434	100		99		100		98		99	

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/21/2025

Run Number: LB136916

End Date : 08/21/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1133	100		100		100		100		100	
S2	S2	1139	103		103		103		102		103	
S3	S3	1143	103		102		102		103		102	
S4	S4	1146	101		99		101		101		102	
S5	S5	1149	101		100		98		103		103	
S6	S6	1152	102		101		100		101		104	
S7	S7	1154	105		104		102		107		107	
S8	S8	1157	107		105		98		105		108	
ICV01	ICV01	1215	99		97		99		98		101	
LLICV01	LLICV01	1226	99		100		101		101		101	
ICB01	ICB01	1229	97		100		99		100		101	
ICSA01	ICSA01	1233	101		102		100		102		104	
ICSAB01	ICSAB01	1236	104		103		101		105		107	
CCV01	CCV01	1239	111		111		105		108		110	
CCB01	CCB01	1244	103		104		105		103		104	
CRI	CRI	1248	103		103		103		102		103	
CCV02	CCV02	1340	106		105		99		106		108	
CCB02	CCB02	1343	99		100		99		101		103	
PB169250BL	PB169250BL	1346	98		98		97		97		101	
PB169250BS	PB169250BS	1350	105		106		102		106		108	
ZZZZZZ	ZZZZZZ	1352										
ZZZZZZ	ZZZZZZ	1356										
ZZZZZZ	ZZZZZZ	1358										
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1405										
ZZZZZZ	ZZZZZZ	1408										
ZZZZZZ	ZZZZZZ	1411										
ZZZZZZ	ZZZZZZ	1414										
CCV03	CCV03	1432	106		104		99		103		107	
CCB03	CCB03	1434	100		101		99		100		105	

Internal Standard %RI Limit: 70 - 130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/15/2025

Run Number: LB136861

End Date : 08/15/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1234	100		100							
S2	S2	1248	101		99							
S3	S3	1251	103		102							
S4	S4	1254	102		103							
S5	S5	1257	103		102							
S6	S6	1300	103		104							
S7	S7	1303	106		104							
S8	S8	1306	107		97							
ICV01	ICV01	1322	102		101							
LLICV01	LLICV01	1340	102		100							
ICB01	ICB01	1343	102		102							
ICSA01	ICSA01	1346	107		100							
ICSAB01	ICSAB01	1350	108		101							
CCV01	CCV01	1353	110		102							
CCB01	CCB01	1356	103		100							
CRI	CRI	1403	102		101							
ZZZZZZ	ZZZZZZ	1410										
ZZZZZZ	ZZZZZZ	1413										
ZZZZZZ	ZZZZZZ	1419										
ZZZZZZ	ZZZZZZ	1423										
ZZZZZZ	ZZZZZZ	1426										
ZZZZZZ	ZZZZZZ	1429										
ZZZZZZ	ZZZZZZ	1432										
ZZZZZZ	ZZZZZZ	1435										
ZZZZZZ	ZZZZZZ	1438										
CCV02	CCV02	1441	108		100							
CCB02	CCB02	1444	103		98							
ZZZZZZ	ZZZZZZ	1450										
ZZZZZZ	ZZZZZZ	1453										
ZZZZZZ	ZZZZZZ	1456										
Q2842-03	MW-17B-55.5-	1500	117		110							
Q2842-03DUP	MW-17B-55.5-	1503	116		110							
Q2842-03L	MW-17B-55.5-	1506	103		102							
Q2842-04	MW-17B-55.5-	1509	117		112							

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/15/2025

Run Number: LB136861

End Date : 08/15/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
Q2842-05	MW-17B-55.5-	1512	116		110							
Q2842-03A	MW-17B-55.5-	1515	118		112							
Q2842-09	MW-17B-55.5-	1518	116		112							
CCV03	CCV03	1521	107		97							
CCB03	CCB03	1524	101		99							
Q2842-10	MW-17B-55.5-	1527	119		114							
Q2842-11	MW-17B-55.5-	1530	119		115							
ZZZZZZ	ZZZZZZ	1532										
ZZZZZZ	ZZZZZZ	1536										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1542										
ZZZZZZ	ZZZZZZ	1545										
ZZZZZZ	ZZZZZZ	1549										
ZZZZZZ	ZZZZZZ	1552										
ZZZZZZ	ZZZZZZ	1555										
CCV04	CCV04	1558	112		105							
CCB04	CCB04	1610	108		105							

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/15/2025

Run Number: LB136861

End Date : 08/15/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1234	100									
S2	S2	1248	99									
S3	S3	1251	101									
S4	S4	1254	101									
S5	S5	1257	100									
S6	S6	1300	103									
S7	S7	1303	101									
S8	S8	1306	96									
ICV01	ICV01	1322	103									
LLICV01	LLICV01	1340	103									
ICB01	ICB01	1343	103									
ICSA01	ICSA01	1346	102									
ICSAB01	ICSAB01	1350	104									
CCV01	CCV01	1353	101									
CCB01	CCB01	1356	102									
CRI	CRI	1403	103									
ZZZZZZ	ZZZZZZ	1410										
ZZZZZZ	ZZZZZZ	1413										
ZZZZZZ	ZZZZZZ	1419										
ZZZZZZ	ZZZZZZ	1423										
ZZZZZZ	ZZZZZZ	1426										
ZZZZZZ	ZZZZZZ	1429										
ZZZZZZ	ZZZZZZ	1432										
ZZZZZZ	ZZZZZZ	1435										
ZZZZZZ	ZZZZZZ	1438										
CCV02	CCV02	1441	101									
CCB02	CCB02	1444	101									
ZZZZZZ	ZZZZZZ	1450										
ZZZZZZ	ZZZZZZ	1453										
ZZZZZZ	ZZZZZZ	1456										
Q2842-03	MW-17B-55.5-	1500	115									
Q2842-03DUP	MW-17B-55.5-	1503	114									
Q2842-03L	MW-17B-55.5-	1506	105									
Q2842-04	MW-17B-55.5-	1509	114									

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/15/2025

Run Number: LB136861

End Date : 08/15/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
Q2842-05	MW-17B-55.5-	1512	113									
Q2842-03A	MW-17B-55.5-	1515	113									
Q2842-09	MW-17B-55.5-	1518	115									
CCV03	CCV03	1521	100									
CCB03	CCB03	1524	100									
Q2842-10	MW-17B-55.5-	1527	116									
Q2842-11	MW-17B-55.5-	1530	115									
ZZZZZZ	ZZZZZZ	1532										
ZZZZZZ	ZZZZZZ	1536										
ZZZZZZ	ZZZZZZ	1539										
ZZZZZZ	ZZZZZZ	1542										
ZZZZZZ	ZZZZZZ	1545										
ZZZZZZ	ZZZZZZ	1549										
ZZZZZZ	ZZZZZZ	1552										
ZZZZZZ	ZZZZZZ	1555										
CCV04	CCV04	1558	106									
CCB04	CCB04	1610	106									

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/21/2025

Run Number: LB136916

End Date : 08/21/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1133	100		100							
S2	S2	1139	102		104							
S3	S3	1143	101		104							
S4	S4	1146	103		106							
S5	S5	1149	103		106							
S6	S6	1152	104		105							
S7	S7	1154	106		105							
S8	S8	1157	103		98							
ICV01	ICV01	1215	99		101							
LLICV01	LLICV01	1226	99		101							
ICB01	ICB01	1229	99		102							
ICSA01	ICSA01	1233	105		103							
ICSAB01	ICSAB01	1236	106		102							
CCV01	CCV01	1239	107		104							
CCB01	CCB01	1244	101		104							
CRI	CRI	1248	103		103							
CCV02	CCV02	1340	106		102							
CCB02	CCB02	1343	102		101							
PB169250BL	PB169250BL	1346	99		99							
PB169250BS	PB169250BS	1350	104		102							
ZZZZZZ	ZZZZZZ	1352										
ZZZZZZ	ZZZZZZ	1356										
ZZZZZZ	ZZZZZZ	1358										
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1405										
ZZZZZZ	ZZZZZZ	1408										
ZZZZZZ	ZZZZZZ	1411										
ZZZZZZ	ZZZZZZ	1414										
CCV03	CCV03	1432	109		100							
CCB03	CCB03	1434	100		99							

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: ACE

SDG No.: Q2842

Instrument ID: P7

Start Date : 08/21/2025

Run Number: LB136916

End Date : 08/21/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1133	100									
S2	S2	1139	104									
S3	S3	1143	104									
S4	S4	1146	102									
S5	S5	1149	102									
S6	S6	1152	103									
S7	S7	1154	103									
S8	S8	1157	99									
ICV01	ICV01	1215	101									
LLICV01	LLICV01	1226	102									
ICB01	ICB01	1229	103									
ICSA01	ICSA01	1233	101									
ICSAB01	ICSAB01	1236	101									
CCV01	CCV01	1239	103									
CCB01	CCB01	1244	104									
CRI	CRI	1248	103									
CCV02	CCV02	1340	102									
CCB02	CCB02	1343	102									
PB169250BL	PB169250BL	1346	100									
PB169250BS	PB169250BS	1350	103									
ZZZZZZ	ZZZZZZ	1352										
ZZZZZZ	ZZZZZZ	1356										
ZZZZZZ	ZZZZZZ	1358										
ZZZZZZ	ZZZZZZ	1402										
ZZZZZZ	ZZZZZZ	1405										
ZZZZZZ	ZZZZZZ	1408										
ZZZZZZ	ZZZZZZ	1411										
ZZZZZZ	ZZZZZZ	1414										
CCV03	CCV03	1432	97									
CCB03	CCB03	1434	99									

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-17B-55.5-08122025L

Lab Name: Alliance **Contract:** JACO05
Lab Code: ACE **Lb No.:** lb136861 **Lab Sample ID :** Q2842-03L **SDG No.:** Q2842
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	31.8		22.0	J	31		P
Antimony	0.22	J	10.0	U	100.0		P
Arsenic	0.63	J	0.60	J	5		P
Barium	448		455		2		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	29600		30700		4		P
Chromium	2.00	U	10.0	U			P
Cobalt	8.23		8.25		0		P
Copper	2.00	U	10.0	U			P
Iron	7590		7950		5		P
Lead	0.61	J	5.00	U	100.0		P
Magnesium	9260		9290		0		P
Manganese	618		629		2		P
Nickel	11.3		11.7		4		P
Mercury	0.20	U	1.00	U			CV
Potassium	7950		8440		6		P
Selenium	5.00	U	25.0	U			P
Silver	1.00	U	5.00	U			P
Sodium	6170		6250		1		P
Thallium	0.21	J	5.00	U	100.0		P
Vanadium	0.29	J	25.0	U	100.0		P
Zinc	3.08	J	25.0	U	100.0		P



METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169249							
PB169249BL	PB169249BL	MB	WATER	08/14/2025	30.0	30.0	
PB169249BS	PB169249BS	LCS	WATER	08/14/2025	30.0	30.0	
Q2842-03	MW-17B-55.5-081225	SAM	WATER	08/14/2025	30.0	30.0	
Q2842-03DUP	MW-17B-55.5-081225DUP	DUP	WATER	08/14/2025	30.0	30.0	
Q2842-04	MW-17B-55.5-081225MS	MS	WATER	08/14/2025	30.0	30.0	
Q2842-05	MW-17B-55.5-081225MSD	MSD	WATER	08/14/2025	30.0	30.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2842

Contract: JACO05

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB169250							
PB169250BL	PB169250BL	MB	WATER	08/14/2025	50.0	50.0	
PB169250BS	PB169250BS	LCS	WATER	08/14/2025	50.0	50.0	
Q2842-03	MW-17B-55.5-081225	SAM	WATER	08/14/2025	50.0	50.0	
Q2842-03DUP	MW-17B-55.5-08122025DUP	DUP	WATER	08/14/2025	50.0	50.0	
Q2842-04	MW-17B-55.5-08122025MS	MS	WATER	08/14/2025	50.0	50.0	
Q2842-05	MW-17B-55.5-08122025MSD	MSD	WATER	08/14/2025	50.0	50.0	
Q2842-09	MW-17B-55.5-081225	SAM	WATER	08/14/2025	50.0	50.0	
Q2842-10	MW-17B-55.5-08122025MS	MS	WATER	08/14/2025	50.0	50.0	
Q2842-11	MW-17B-55.5-08122025MSD	MSD	WATER	08/14/2025	50.0	50.0	

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: ACE

Sdg no.: Q2842

Instrument id number: _____ **Method:** _____

Run number: LB136836

Start date: 08/15/2025 **End date:** 08/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1125	HG
S0.2	S0.2	1	1128	HG
S2.5	S2.5	1	1130	HG
S5	S5	1	1132	HG
S7.5	S7.5	1	1135	HG
S10	S10	1	1137	HG
ICV18	ICV18	1	1140	HG
ICB18	ICB18	1	1145	HG
CCV54	CCV54	1	1211	HG
CCB54	CCB54	1	1213	HG
CRA	CRA	1	1216	HG
PB169249BL	PB169249BL	1	1222	HG
PB169249BS	PB169249BS	1	1225	HG
CCV55	CCV55	1	1238	HG
CCB55	CCB55	1	1241	HG
Q2842-03	MW-17B-55.5-081225	1	1243	HG
Q2842-03DUP	MW-17B-55.5-081225DUP	1	1245	HG
Q2842-04	MW-17B-55.5-081225MS	1	1248	HG
Q2842-05	MW-17B-55.5-081225MSD	1	1250	HG
Q2842-03L	MW-17B-55.5-081225L	5	1304	HG
CCV56	CCV56	1	1309	HG
CCB56	CCB56	1	1311	HG
CCV57	CCV57	1	1315	HG
CCB57	CCB57	1	1318	HG

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: ACE

Sdg no.: Q2842

Instrument id number:

Method:

Run number: LB136861

Start date: 08/15/2025

End date: 08/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1234	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1248	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1251	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1254	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1257	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1300	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1303	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1306	Fe,Al,Ca,K,Mg,Na
ICV01	ICV01	1	1322	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1340	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1343	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1346	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1350	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1353	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1356	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1403	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1441	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1444	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2842-03	MW-17B-55.5-081225	1	1500	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2842-03DUP	MW-17B-55.5-08122025DUP	1	1503	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2842-03L	MW-17B-55.5-08122025L	5	1506	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2842-04	MW-17B-55.5-08122025MS	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2842-05	MW-17B-55.5-08122025MSD	1	1512	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2842-03A	MW-17B-55.5-08122025A	1	1515	Ag
Q2842-09	MW-17B-55.5-081225	1	1518	Fe
CCV03	CCV03	1	1521	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1524	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2842-10	MW-17B-55.5-08122025MS	1	1527	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2842-11	MW-17B-55.5-08122025MSD	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1558	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1610	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1639	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1650	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: ACE

Sdg no.: Q2842

Instrument id number: **Method:**

Run number: LB136916

Start date: 08/21/2025 **End date:** 08/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1133	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1139	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1143	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1146	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1149	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1152	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1154	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1157	Fe,Al,Ca,K,Mg,Na
ICV01	ICV01	1	1215	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1226	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1229	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1233	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1236	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1239	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1244	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1248	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1340	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1343	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB169250BL	PB169250BL	1	1346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB169250BS	PB169250BS	1	1350	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1432	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1434	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1512	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1518	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn