

LAB CHRONICLE

OrderID:	Q1485	OrderDate:	3/4/2025 3:32:00 PM
Client:	JPCL Engineering	Project:	NYSDOT Two Bronx River Parkway Bridges
Contact:	Paul Rotondi	Location:	H31,I11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1485-01	DN-B-41	SOIL	Mercury	7471B	03/04/25	03/05/25	03/05/25	03/04/25
			Metals ICP-RCRA	6010D		03/05/25	03/13/25	



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Hit Summary Sheet
SW-846

SDG No.: Q1485

Order ID: Q1485

Client: JPCL Engineering

Project ID: NYSDOT Two Bronx River Parkway Bridge

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : DN-B-41								
Q1485-01	DN-B-41	SOIL	Arsenic	4.84		0.31	1.06	mg/Kg
Q1485-01	DN-B-41	SOIL	Barium	77.5		0.68	5.32	mg/Kg
Q1485-01	DN-B-41	SOIL	Chromium	18.3		0.058	0.53	mg/Kg
Q1485-01	DN-B-41	SOIL	Lead	125		0.16	0.64	mg/Kg
Q1485-01	DN-B-41	SOIL	Mercury	0.037		0.0070	0.015	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-41	SDG No.:	Q1485
Lab Sample ID:	Q1485-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	4.84		1	0.31	1.06	mg/Kg	03/05/25 10:05	03/13/25 13:19	SW6010	SW3050
7440-39-3	Barium	77.5		1	0.68	5.32	mg/Kg	03/05/25 10:05	03/13/25 13:19	SW6010	SW3050
7440-43-9	Cadmium	0.32	U	1	0.017	0.32	mg/Kg	03/05/25 10:05	03/13/25 13:19	SW6010	SW3050
7440-47-3	Chromium	18.3		1	0.058	0.53	mg/Kg	03/05/25 10:05	03/13/25 13:19	SW6010	SW3050
7439-92-1	Lead	125		1	0.16	0.64	mg/Kg	03/05/25 10:05	03/13/25 13:19	SW6010	SW3050
7439-97-6	Mercury	0.037		1	0.0070	0.015	mg/Kg	03/05/25 09:50	03/05/25 15:01	SW7471B	
7782-49-2	Selenium	1.06	U	1	0.35	1.06	mg/Kg	03/05/25 10:05	03/13/25 13:19	SW6010	SW3050
7440-22-4	Silver	0.53	U	1	0.055	0.53	mg/Kg	03/05/25 10:05	03/13/25 13:19	SW6010	SW3050

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

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

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



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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
ICV32	Mercury	3.65	4.0	91	90 - 110	CV	03/05/2025	13:59	LB134903

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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
CCV65	Mercury	5.02	5.0	100	90 - 110	CV	03/05/2025	14:03	LB134903
CCV66	Mercury	4.92	5.0	98	90 - 110	CV	03/05/2025	14:40	LB134903
CCV67	Mercury	4.97	5.0	99	90 - 110	CV	03/05/2025	15:08	LB134903
CCV68	Mercury	4.93	5.0	98	90 - 110	CV	03/05/2025	15:29	LB134903

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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	Arsenic	1050	1000	105	90 - 110	P	03/06/2025	10:50	LB134928
	Barium	527	520	101	90 - 110	P	03/06/2025	10:50	LB134928
	Cadmium	503	510	99	90 - 110	P	03/06/2025	10:50	LB134928
	Chromium	529	520	102	90 - 110	P	03/06/2025	10:50	LB134928
	Lead	1010	1000	100	90 - 110	P	03/06/2025	10:50	LB134928
	Selenium	1050	1000	105	90 - 110	P	03/06/2025	10:50	LB134928
	Silver	258	250	103	90 - 110	P	03/06/2025	10:50	LB134928

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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	Arsenic	19.2	20.0	96	80 - 120	P	03/06/2025	11:38	LB134928
	Barium	94.2	100	94	80 - 120	P	03/06/2025	11:38	LB134928
	Cadmium	5.70	6.0	95	80 - 120	P	03/06/2025	11:38	LB134928
	Chromium	10.4	10.0	104	80 - 120	P	03/06/2025	11:38	LB134928
	Lead	11.9	12.0	99	80 - 120	P	03/06/2025	11:38	LB134928
	Selenium	20.3	20.0	101	80 - 120	P	03/06/2025	11:38	LB134928
	Silver	10.1	10.0	101	80 - 120	P	03/06/2025	11:38	LB134928

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485

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	Arsenic	5170	5000	103	90 - 110	P	03/06/2025	12:19	LB134928
	Barium	9900	10000	99	90 - 110	P	03/06/2025	12:19	LB134928
	Cadmium	2500	2500	100	90 - 110	P	03/06/2025	12:19	LB134928
	Chromium	1020	1000	102	90 - 110	P	03/06/2025	12:19	LB134928
	Lead	5010	5000	100	90 - 110	P	03/06/2025	12:19	LB134928
	Selenium	5210	5000	104	90 - 110	P	03/06/2025	12:19	LB134928
	Silver	1280	1250	102	90 - 110	P	03/06/2025	12:19	LB134928
CCV02	Arsenic	5010	5000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Barium	10100	10000	101	90 - 110	P	03/06/2025	13:10	LB134928
	Cadmium	2420	2500	97	90 - 110	P	03/06/2025	13:10	LB134928
	Chromium	985	1000	98	90 - 110	P	03/06/2025	13:10	LB134928
	Lead	4830	5000	97	90 - 110	P	03/06/2025	13:10	LB134928
	Selenium	5030	5000	100	90 - 110	P	03/06/2025	13:10	LB134928
	Silver	1240	1250	100	90 - 110	P	03/06/2025	13:10	LB134928
CCV03	Arsenic	5050	5000	101	90 - 110	P	03/06/2025	14:00	LB134928
	Barium	9680	10000	97	90 - 110	P	03/06/2025	14:00	LB134928
	Cadmium	2430	2500	97	90 - 110	P	03/06/2025	14:00	LB134928
	Chromium	993	1000	99	90 - 110	P	03/06/2025	14:00	LB134928
	Lead	4830	5000	97	90 - 110	P	03/06/2025	14:00	LB134928
	Selenium	5040	5000	101	90 - 110	P	03/06/2025	14:00	LB134928
	Silver	1230	1250	98	90 - 110	P	03/06/2025	14:00	LB134928
CCV04	Arsenic	4960	5000	99	90 - 110	P	03/06/2025	14:50	LB134928
	Barium	9740	10000	97	90 - 110	P	03/06/2025	14:50	LB134928
	Cadmium	2460	2500	98	90 - 110	P	03/06/2025	14:50	LB134928
	Chromium	1010	1000	101	90 - 110	P	03/06/2025	14:50	LB134928
	Lead	4910	5000	98	90 - 110	P	03/06/2025	14:50	LB134928
	Selenium	4970	5000	99	90 - 110	P	03/06/2025	14:50	LB134928
	Silver	1250	1250	100	90 - 110	P	03/06/2025	14:50	LB134928
CCV05	Arsenic	4960	5000	99	90 - 110	P	03/06/2025	15:53	LB134928
	Barium	9790	10000	98	90 - 110	P	03/06/2025	15:53	LB134928
	Cadmium	2480	2500	99	90 - 110	P	03/06/2025	15:53	LB134928
	Chromium	1010	1000	101	90 - 110	P	03/06/2025	15:53	LB134928
	Lead	4940	5000	99	90 - 110	P	03/06/2025	15:53	LB134928
	Selenium	4960	5000	99	90 - 110	P	03/06/2025	15:53	LB134928

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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
CCV05	Silver	1240	1250	99	90 - 110	P	03/06/2025	15:53	LB134928

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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	Arsenic	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011
	Barium	537	520	103	90 - 110	P	03/12/2025	10:52	LB135011
	Cadmium	506	510	99	90 - 110	P	03/12/2025	10:52	LB135011
	Chromium	541	520	104	90 - 110	P	03/12/2025	10:52	LB135011
	Lead	1020	1000	102	90 - 110	P	03/12/2025	10:52	LB135011
	Selenium	1050	1000	105	90 - 110	P	03/12/2025	10:52	LB135011
	Silver	262	250	105	90 - 110	P	03/12/2025	10:52	LB135011

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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	Arsenic	22.2	20.0	111	80 - 120	P	03/12/2025	10:56	LB135011
	Barium	89.2	100	89	80 - 120	P	03/12/2025	10:56	LB135011
	Cadmium	5.83	6.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Chromium	10.6	10.0	106	80 - 120	P	03/12/2025	10:56	LB135011
	Lead	11.7	12.0	97	80 - 120	P	03/12/2025	10:56	LB135011
	Selenium	17.5	20.0	87	80 - 120	P	03/12/2025	10:56	LB135011
	Silver	11.0	10.0	110	80 - 120	P	03/12/2025	10:56	LB135011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485

Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485

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	Arsenic	5210	5000	104	90 - 110	P	03/12/2025	11:29	LB135011
	Barium	9300	10000	93	90 - 110	P	03/12/2025	11:29	LB135011
	Cadmium	2470	2500	99	90 - 110	P	03/12/2025	11:29	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	11:29	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	11:29	LB135011
	Selenium	5000	5000	100	90 - 110	P	03/12/2025	11:29	LB135011
	Silver	1260	1250	101	90 - 110	P	03/12/2025	11:29	LB135011
CCV02	Arsenic	5150	5000	103	90 - 110	P	03/12/2025	12:20	LB135011
	Barium	9180	10000	92	90 - 110	P	03/12/2025	12:20	LB135011
	Cadmium	2480	2500	99	90 - 110	P	03/12/2025	12:20	LB135011
	Chromium	1070	1000	107	90 - 110	P	03/12/2025	12:20	LB135011
	Lead	5010	5000	100	90 - 110	P	03/12/2025	12:20	LB135011
	Selenium	5180	5000	104	90 - 110	P	03/12/2025	12:20	LB135011
	Silver	1280	1250	103	90 - 110	P	03/12/2025	12:20	LB135011
CCV03	Arsenic	5100	5000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Barium	9270	10000	93	90 - 110	P	03/12/2025	13:10	LB135011
	Cadmium	2480	2500	99	90 - 110	P	03/12/2025	13:10	LB135011
	Chromium	1060	1000	106	90 - 110	P	03/12/2025	13:10	LB135011
	Lead	5000	5000	100	90 - 110	P	03/12/2025	13:10	LB135011
	Selenium	5090	5000	102	90 - 110	P	03/12/2025	13:10	LB135011
	Silver	1290	1250	103	90 - 110	P	03/12/2025	13:10	LB135011
CCV04	Arsenic	5330	5000	107	90 - 110	P	03/12/2025	14:24	LB135011
	Barium	9270	10000	93	90 - 110	P	03/12/2025	14:24	LB135011
	Cadmium	2500	2500	100	90 - 110	P	03/12/2025	14:24	LB135011
	Chromium	1060	1000	106	90 - 110	P	03/12/2025	14:24	LB135011
	Lead	5090	5000	102	90 - 110	P	03/12/2025	14:24	LB135011
	Selenium	5140	5000	103	90 - 110	P	03/12/2025	14:24	LB135011
	Silver	1280	1250	103	90 - 110	P	03/12/2025	14:24	LB135011
CCV05	Arsenic	5210	5000	104	90 - 110	P	03/12/2025	15:25	LB135011
	Barium	9220	10000	92	90 - 110	P	03/12/2025	15:25	LB135011
	Cadmium	2460	2500	98	90 - 110	P	03/12/2025	15:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	15:25	LB135011
	Lead	5010	5000	100	90 - 110	P	03/12/2025	15:25	LB135011
	Selenium	5000	5000	100	90 - 110	P	03/12/2025	15:25	LB135011

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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
CCV05	Silver	1250	1250	100	90 - 110	P	03/12/2025	15:25	LB135011
CCV06	Arsenic	5190	5000	104	90 - 110	P	03/12/2025	16:25	LB135011
	Barium	9100	10000	91	90 - 110	P	03/12/2025	16:25	LB135011
	Cadmium	2450	2500	98	90 - 110	P	03/12/2025	16:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	16:25	LB135011
	Lead	4990	5000	100	90 - 110	P	03/12/2025	16:25	LB135011
	Selenium	4960	5000	99	90 - 110	P	03/12/2025	16:25	LB135011
	Silver	1260	1250	100	90 - 110	P	03/12/2025	16:25	LB135011
CCV07	Arsenic	5300	5000	106	90 - 110	P	03/12/2025	17:25	LB135011
	Barium	9240	10000	92	90 - 110	P	03/12/2025	17:25	LB135011
	Cadmium	2460	2500	98	90 - 110	P	03/12/2025	17:25	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	17:25	LB135011
	Lead	5030	5000	101	90 - 110	P	03/12/2025	17:25	LB135011
	Selenium	5120	5000	102	90 - 110	P	03/12/2025	17:25	LB135011
	Silver	1270	1250	102	90 - 110	P	03/12/2025	17:25	LB135011
CCV08	Arsenic	5240	5000	105	90 - 110	P	03/12/2025	18:23	LB135011
	Barium	9130	10000	91	90 - 110	P	03/12/2025	18:23	LB135011
	Cadmium	2490	2500	99	90 - 110	P	03/12/2025	18:23	LB135011
	Chromium	1070	1000	107	90 - 110	P	03/12/2025	18:23	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	18:23	LB135011
	Selenium	5010	5000	100	90 - 110	P	03/12/2025	18:23	LB135011
	Silver	1280	1250	102	90 - 110	P	03/12/2025	18:23	LB135011
CCV09	Arsenic	5290	5000	106	90 - 110	P	03/12/2025	18:49	LB135011
	Barium	9220	10000	92	90 - 110	P	03/12/2025	18:49	LB135011
	Cadmium	2500	2500	100	90 - 110	P	03/12/2025	18:49	LB135011
	Chromium	1050	1000	105	90 - 110	P	03/12/2025	18:49	LB135011
	Lead	5060	5000	101	90 - 110	P	03/12/2025	18:49	LB135011
	Selenium	5060	5000	101	90 - 110	P	03/12/2025	18:49	LB135011
	Silver	1270	1250	102	90 - 110	P	03/12/2025	18:49	LB135011

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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	Arsenic	1020	1000	102	90 - 110	P	03/13/2025	12:07	LB135035
	Barium	533	520	102	90 - 110	P	03/13/2025	12:07	LB135035
	Cadmium	503	510	99	90 - 110	P	03/13/2025	12:07	LB135035
	Chromium	525	520	101	90 - 110	P	03/13/2025	12:07	LB135035
	Lead	1000	1000	100	90 - 110	P	03/13/2025	12:07	LB135035
	Selenium	1040	1000	104	90 - 110	P	03/13/2025	12:07	LB135035
	Silver	252	250	101	90 - 110	P	03/13/2025	12:07	LB135035

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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	Arsenic	17.3	20.0	86	80 - 120	P	03/13/2025	12:13	LB135035
	Barium	92.2	100	92	80 - 120	P	03/13/2025	12:13	LB135035
	Cadmium	5.95	6.0	99	80 - 120	P	03/13/2025	12:13	LB135035
	Chromium	10.1	10.0	101	80 - 120	P	03/13/2025	12:13	LB135035
	Lead	12.6	12.0	105	80 - 120	P	03/13/2025	12:13	LB135035
	Selenium	19.2	20.0	96	80 - 120	P	03/13/2025	12:13	LB135035
	Silver	10.6	10.0	106	80 - 120	P	03/13/2025	12:13	LB135035

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering SDG No.: Q1485
 Contract: JPCL01 Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485
 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	Arsenic	5160	5000	103	90 - 110	P	03/13/2025	12:53	LB135035
	Barium	9860	10000	99	90 - 110	P	03/13/2025	12:53	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	12:53	LB135035
	Chromium	1050	1000	105	90 - 110	P	03/13/2025	12:53	LB135035
	Lead	5190	5000	104	90 - 110	P	03/13/2025	12:53	LB135035
	Selenium	5070	5000	101	90 - 110	P	03/13/2025	12:53	LB135035
	Silver	1300	1250	104	90 - 110	P	03/13/2025	12:53	LB135035
CCV02	Arsenic	5290	5000	106	90 - 110	P	03/13/2025	13:49	LB135035
	Barium	10100	10000	101	90 - 110	P	03/13/2025	13:49	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	13:49	LB135035
	Chromium	1100	1000	110	90 - 110	P	03/13/2025	13:49	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	13:49	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	13:49	LB135035
	Silver	1310	1250	105	90 - 110	P	03/13/2025	13:49	LB135035
CCV03	Arsenic	5130	5000	102	90 - 110	P	03/13/2025	14:40	LB135035
	Barium	9830	10000	98	90 - 110	P	03/13/2025	14:40	LB135035
	Cadmium	2540	2500	102	90 - 110	P	03/13/2025	14:40	LB135035
	Chromium	1050	1000	106	90 - 110	P	03/13/2025	14:40	LB135035
	Lead	5150	5000	103	90 - 110	P	03/13/2025	14:40	LB135035
	Selenium	5060	5000	101	90 - 110	P	03/13/2025	14:40	LB135035
	Silver	1280	1250	103	90 - 110	P	03/13/2025	14:40	LB135035
CCV04	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	15:38	LB135035
	Barium	9580	10000	96	90 - 110	P	03/13/2025	15:38	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	15:38	LB135035
	Chromium	1030	1000	103	90 - 110	P	03/13/2025	15:38	LB135035
	Lead	5050	5000	101	90 - 110	P	03/13/2025	15:38	LB135035
	Selenium	4830	5000	97	90 - 110	P	03/13/2025	15:38	LB135035
	Silver	1240	1250	99	90 - 110	P	03/13/2025	15:38	LB135035
CCV05	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	16:28	LB135035
	Barium	9880	10000	99	90 - 110	P	03/13/2025	16:28	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	16:28	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	16:28	LB135035
	Lead	5300	5000	106	90 - 110	P	03/13/2025	16:28	LB135035
	Selenium	5150	5000	103	90 - 110	P	03/13/2025	16:28	LB135035

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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
CCV05	Silver	1300	1250	104	90 - 110	P	03/13/2025	16:28	LB135035
CCV06	Arsenic	5070	5000	101	90 - 110	P	03/13/2025	17:21	LB135035
	Barium	9980	10000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	17:21	LB135035
	Chromium	1060	1000	106	90 - 110	P	03/13/2025	17:21	LB135035
	Lead	5180	5000	104	90 - 110	P	03/13/2025	17:21	LB135035
	Selenium	4970	5000	100	90 - 110	P	03/13/2025	17:21	LB135035
	Silver	1290	1250	103	90 - 110	P	03/13/2025	17:21	LB135035
CCV07	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	18:12	LB135035
	Barium	9960	10000	100	90 - 110	P	03/13/2025	18:12	LB135035
	Cadmium	2640	2500	106	90 - 110	P	03/13/2025	18:12	LB135035
	Chromium	1090	1000	109	90 - 110	P	03/13/2025	18:12	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	18:12	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	18:12	LB135035
	Silver	1310	1250	105	90 - 110	P	03/13/2025	18:12	LB135035
CCV08	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	18:53	LB135035
	Barium	9390	10000	94	90 - 110	P	03/13/2025	18:53	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	18:53	LB135035
	Chromium	1040	1000	104	90 - 110	P	03/13/2025	18:53	LB135035
	Lead	5060	5000	101	90 - 110	P	03/13/2025	18:53	LB135035
	Selenium	4840	5000	97	90 - 110	P	03/13/2025	18:53	LB135035
	Silver	1250	1250	100	90 - 110	P	03/13/2025	18:53	LB135035
CCV09	Arsenic	5280	5000	106	90 - 110	P	03/13/2025	19:12	LB135035
	Barium	9620	10000	96	90 - 110	P	03/13/2025	19:12	LB135035
	Cadmium	2550	2500	102	90 - 110	P	03/13/2025	19:12	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	19:12	LB135035
	Lead	5120	5000	102	90 - 110	P	03/13/2025	19:12	LB135035
	Selenium	5440	5000	109	90 - 110	P	03/13/2025	19:12	LB135035
	Silver	1290	1250	104	90 - 110	P	03/13/2025	19:12	LB135035



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Metals

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CRDL STANDARD FOR AA & ICP

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	103	40 - 160	CV	03/05/2025	14:08	LB134903
CRI01	Arsenic	22.6	20.0	113	40 - 160	P	03/06/2025	11:47	LB134928
	Barium	92.7	100	93	40 - 160	P	03/06/2025	11:47	LB134928
	Cadmium	5.78	6.0	96	40 - 160	P	03/06/2025	11:47	LB134928
	Chromium	10.1	10.0	101	40 - 160	P	03/06/2025	11:47	LB134928
	Lead	12.6	12.0	105	40 - 160	P	03/06/2025	11:47	LB134928
	Selenium	22.0	20.0	110	40 - 160	P	03/06/2025	11:47	LB134928
	Silver	10.2	10.0	102	40 - 160	P	03/06/2025	11:47	LB134928
CRI01	Arsenic	20.1	20.0	100	40 - 160	P	03/12/2025	11:05	LB135011
	Barium	88.8	100	89	40 - 160	P	03/12/2025	11:05	LB135011
	Cadmium	5.85	6.0	98	40 - 160	P	03/12/2025	11:05	LB135011
	Chromium	10.3	10.0	103	40 - 160	P	03/12/2025	11:05	LB135011
	Lead	10.9	12.0	91	40 - 160	P	03/12/2025	11:05	LB135011
	Selenium	18.3	20.0	92	40 - 160	P	03/12/2025	11:05	LB135011
	Silver	11.1	10.0	111	40 - 160	P	03/12/2025	11:05	LB135011
CRI01	Arsenic	21.2	20.0	106	40 - 160	P	03/13/2025	12:21	LB135035
	Barium	94.0	100	94	40 - 160	P	03/13/2025	12:21	LB135035
	Cadmium	5.90	6.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Chromium	10.4	10.0	104	40 - 160	P	03/13/2025	12:21	LB135035
	Lead	11.7	12.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Selenium	21.3	20.0	107	40 - 160	P	03/13/2025	12:21	LB135035
	Silver	10.6	10.0	106	40 - 160	P	03/13/2025	12:21	LB135035



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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	<u>JPCL Engineering</u>				SDG No.:	<u>Q1485</u>			
Contract:	<u>JPCL01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1485</u>	SAS No.:	<u>Q1485</u>		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB32	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	14:01	LB134903

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	14:06	LB134903
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	14:43	LB134903
CCB67	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	15:10	LB134903
CCB68	Mercury	0.20	+/-0.20	U	0.20	CV	03/05/2025	15:31	LB134903

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	11:43	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	11:43	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	11:43	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	11:43	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	11:43	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	11:43	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	11:43	LB134928

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering		SDG No.: Q1485							
Contract: JPCL01	Lab Code: CHEM	Case No.: Q1485	SAS No.: Q1485						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	12:23	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	12:23	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	12:23	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	12:23	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	12:23	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	12:23	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	12:23	LB134928
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	13:14	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	13:14	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	13:14	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	13:14	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	13:14	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	13:14	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	13:14	LB134928
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	14:05	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	14:05	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	14:05	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	14:05	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	14:05	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	14:05	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	14:05	LB134928
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	14:54	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	14:54	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	14:54	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	14:54	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	14:54	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	14:54	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	14:54	LB134928
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/06/2025	15:57	LB134928
	Barium	100	+/-100	U	100	P	03/06/2025	15:57	LB134928
	Cadmium	6.00	+/-6.00	U	6.00	P	03/06/2025	15:57	LB134928
	Chromium	10.0	+/-10.0	U	10.0	P	03/06/2025	15:57	LB134928
	Lead	12.0	+/-12.0	U	12.0	P	03/06/2025	15:57	LB134928
	Selenium	20.0	+/-20.0	U	20.0	P	03/06/2025	15:57	LB134928
	Silver	10.0	+/-10.0	U	10.0	P	03/06/2025	15:57	LB134928

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	11:01	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:01	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	11:01	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	11:01	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	11:01	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	11:01	LB135011

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering		SDG No.: Q1485							
Contract: JPCL01	Lab Code: CHEM	Case No.: Q1485	SAS No.: Q1485						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	11:34	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	11:34	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	11:34	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	11:34	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	11:34	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	11:34	LB135011
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	12:24	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	12:24	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	12:24	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	12:24	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	12:24	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	12:24	LB135011
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	13:14	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	13:14	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	13:14	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	13:14	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	13:14	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	13:14	LB135011
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	14:28	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	14:28	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	14:28	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	14:28	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	14:28	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	14:28	LB135011
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	15:29	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	15:29	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	15:29	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	15:29	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	15:29	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	15:29	LB135011
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	16:30	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	16:30	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	16:30	LB135011

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering		SDG No.: Q1485							
Contract: JPCL01	Lab Code: CHEM	Case No.: Q1485	SAS No.: Q1485						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	16:30	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	16:30	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	16:30	LB135011
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	17:30	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	17:30	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	17:30	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	17:30	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	17:30	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	17:30	LB135011
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	18:27	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:27	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	18:27	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	18:27	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	18:27	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	18:27	LB135011
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Barium	100	+/-100	U	100	P	03/12/2025	18:53	LB135011
	Cadmium	6.00	+/-6.00	U	6.00	P	03/12/2025	18:53	LB135011
	Chromium	10.0	+/-10.0	U	10.0	P	03/12/2025	18:53	LB135011
	Lead	12.0	+/-12.0	U	12.0	P	03/12/2025	18:53	LB135011
	Selenium	20.0	+/-20.0	U	20.0	P	03/12/2025	18:53	LB135011
	Silver	10.0	+/-10.0	U	10.0	P	03/12/2025	18:53	LB135011

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	12:17	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:17	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:17	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering		SDG No.: Q1485							
Contract: JPCL01	Lab Code: CHEM	Case No.: Q1485	SAS No.: Q1485						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	12:58	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:58	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:58	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	13:54	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	13:54	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	13:54	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	14:48	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	14:48	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	14:48	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	15:42	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	15:42	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	15:42	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	16:32	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	16:32	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	16:32	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	17:25	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	17:25	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering		SDG No.: Q1485							
Contract: JPCL01	Lab Code: CHEM	Case No.: Q1485	SAS No.: Q1485						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	17:25	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	18:35	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	18:35	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	18:35	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	19:03	LB135035
CCB08	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:03	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:03	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Barium	100	+/-100	U	100	P	03/13/2025	19:21	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:21	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035
CCB09	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:21	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Silver	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q1485

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166988BL		SOLID		Batch Number:	PB166988		Prep Date:	03/05/2025	
	Mercury	0.013	<0.013	U	0.013	CV	03/05/2025	14:19	LB134903

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q1485

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166977BL	SOLID			Batch Number:	PB166977		Prep Date:	03/05/2025	
	Arsenic	0.98	<0.98	U	0.98	P	03/12/2025	12:28	LB135011
	Barium	4.90	<4.90	U	4.90	P	03/12/2025	12:28	LB135011
	Cadmium	0.29	<0.29	U	0.29	P	03/12/2025	12:28	LB135011
	Chromium	0.49	<0.49	U	0.49	P	03/12/2025	12:28	LB135011
	Lead	0.59	<0.59	U	0.59	P	03/12/2025	12:28	LB135011
	Selenium	0.98	<0.98	U	0.98	P	03/12/2025	12:28	LB135011
	Silver	0.49	<0.49	U	0.49	P	03/12/2025	12:28	LB135011

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JPCL Engineering	SDG No.: Q1485
Contract: JPCL01	Lab Code: CHEM
Case No.: Q1485	SAS No.: Q1485
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	Arsenic	12.0			-20	20	03/06/2025	11:51	LB134928
	Barium	2.98	6.0	50	-94	106	03/06/2025	11:51	LB134928
	Cadmium	-4.02	1.0	402	-5	7	03/06/2025	11:51	LB134928
	Chromium	55.3	52.0	106	42	62	03/06/2025	11:51	LB134928
	Lead	6.40			-12	12	03/06/2025	11:51	LB134928
	Selenium	2.15			-20	20	03/06/2025	11:51	LB134928
	Silver	0.89			-10	10	03/06/2025	11:51	LB134928
ICSAB01	Arsenic	98.3	104	94	88.4	120	03/06/2025	12:04	LB134928
	Barium	498	537	93	437	637	03/06/2025	12:04	LB134928
	Cadmium	1010	972	104	826	1120	03/06/2025	12:04	LB134928
	Chromium	567	542	105	460	624	03/06/2025	12:04	LB134928
	Lead	55.0	49.0	112	37	61	03/06/2025	12:04	LB134928
	Selenium	47.8	46.0	104	26	66	03/06/2025	12:04	LB134928
	Silver	190	201	94	170	232	03/06/2025	12:04	LB134928
ICSA01	Arsenic	5.78			-20	20	03/12/2025	11:09	LB135011
	Barium	1.43	6.0	24	-94	106	03/12/2025	11:09	LB135011
	Cadmium	-3.50	1.0	350	-5	7	03/12/2025	11:09	LB135011
	Chromium	60.0	52.0	115	42	62	03/12/2025	11:09	LB135011
	Lead	5.99			-12	12	03/12/2025	11:09	LB135011
	Selenium	-15.8			-20	20	03/12/2025	11:09	LB135011
	Silver	0.57			-10	10	03/12/2025	11:09	LB135011
ICSAB01	Arsenic	116	104	112	88.4	120	03/12/2025	11:14	LB135011
	Barium	454	537	84	437	637	03/12/2025	11:14	LB135011
	Cadmium	1000	972	103	826	1120	03/12/2025	11:14	LB135011
	Chromium	595	542	110	460	624	03/12/2025	11:14	LB135011
	Lead	52.3	49.0	107	37	61	03/12/2025	11:14	LB135011
	Selenium	34.2	46.0	74	26	66	03/12/2025	11:14	LB135011
	Silver	226	201	112	170	232	03/12/2025	11:14	LB135011
ICSA01	Arsenic	4.32			-20	20	03/13/2025	12:25	LB135035
	Barium	4.72	6.0	79	-94	106	03/13/2025	12:25	LB135035
	Cadmium	-3.11	1.0	311	-5	7	03/13/2025	12:25	LB135035
	Chromium	60.0	52.0	115	42	62	03/13/2025	12:25	LB135035
	Lead	4.72			-12	12	03/13/2025	12:25	LB135035
	Selenium	-15.2			-20	20	03/13/2025	12:25	LB135035
	Silver	-0.88			-10	10	03/13/2025	12:25	LB135035
ICSAB01	Arsenic	113	104	109	88.4	120	03/13/2025	12:30	LB135035
	Barium	485	537	90	437	637	03/13/2025	12:30	LB135035
	Cadmium	1000	972	103	826	1120	03/13/2025	12:30	LB135035
	Chromium	564	542	104	460	624	03/13/2025	12:30	LB135035
	Lead	54.2	49.0	111	37	61	03/13/2025	12:30	LB135035
	Selenium	43.0	46.0	94	26	66	03/13/2025	12:30	LB135035

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
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	Silver	218	201	108	170	232	03/13/2025	12:30	LB135035



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: JPCL Engineering	level: low	sdg no.: Q1485
contract: JPCL01	lab code: CHEM	case no.: Q1485 sas no.: Q1485
matrix: Solid	sample id: Q1474-01	client id: BU-03-02282025MS
Percent Solids for Sample: 93.3	Spiked ID: Q1474-01MS	Percent Solids for Spike Sample: 93.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.30		0.023		0.28	98		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JPCL Engineering	level: low	sdg no.: Q1485
contract: JPCL01	lab code: CHEM	case no.: Q1485 sas no.: Q1485
matrix: Solid	sample id: Q1474-01	client id: BU-03-02282025MSD
Percent Solids for Sample: 93.3	Spiked ID: Q1474-01MSD	Percent Solids for Spike Sample: 93.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.023		0.27	109		CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>JPCL Engineering</u>	level:	<u>low</u>	sdg no.:	<u>Q1485</u>
contract:	<u>JPCL01</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q1485</u>
matrix:	<u>Solid</u>	sample id:	<u>Q1482-01</u>	client id:	<u>OR-03-030425MS</u>
Percent Solids for Sample:	90.8	Spiked ID:	Q1482-01MS	Percent Solids for Spike Sample:	90.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	35.2		2.23		38.8	85		P
Barium	mg/Kg	75 - 125	40.0		28.9		9.7	115		P
Cadmium	mg/Kg	75 - 125	8.89		0.29	U	9.7	92		P
Chromium	mg/Kg	75 - 125	27.2		9.62		19.4	91		P
Lead	mg/Kg	75 - 125	57.1		9.00		48.5	99		P
Selenium	mg/Kg	75 - 125	76.5		0.42	J	97.0	78		P
Silver	mg/Kg	75 - 125	4.47		1.44		3.6	84		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JPCL Engineering	level: low	sdg no.: Q1485
contract: JPCL01	lab code: CHEM	case no.: Q1485 sas no.: Q1485
matrix: Solid	sample id: Q1482-01	client id: OR-03-030425MSD
Percent Solids for Sample: 90.8	Spiked ID: Q1482-01MSD	Percent Solids for Spike Sample: 90.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/Kg	75 - 125	35.7		2.23		38.5	87		P
Barium	mg/Kg	75 - 125	39.3		28.9		9.6	109		P
Cadmium	mg/Kg	75 - 125	8.98		0.29	U	9.6	94		P
Chromium	mg/Kg	75 - 125	26.9		9.62		19.2	90		P
Lead	mg/Kg	75 - 125	57.5		9.00		48.1	101		P
Selenium	mg/Kg	75 - 125	77.5		0.42	J	96.2	80		P
Silver	mg/Kg	75 - 125	4.38		1.44		3.6	82		P

Metals
- 5b -

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
Matrix: **Level:** LOW **Client ID:**
Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
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A
B
C
D
E
F
G
H

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>JPCL Engineering</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q1485</u>
Contract:	<u>JPCL01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1485</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q1474-01</u>	Client ID:	<u>BU-03-02282025DUP</u>
Percent Solids for Sample:	93.3	Duplicate ID	Q1474-01DUP	Percent Solids for Spike Sample:	93.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.023		0.022		4		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>JPCL Engineering</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q1485</u>
Contract:	<u>JPCL01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1485</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q1474-01MS</u>	Client ID:	<u>BU-03-02282025MSD</u>
Percent Solids for Sample:	93.3	Duplicate ID	Q1474-01MSD	Percent Solids for Spike Sample:	93.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.30		0.32		7		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JPCL Engineering **Level:** LOW **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
Matrix: Solid **Sample ID:** Q1482-01 **Client ID:** OR-03-030425DUP
Percent Solids for Sample: 90.8 **Duplicate ID** Q1482-01DUP **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	2.23		2.11		6		P
Barium	mg/Kg	20	28.9		30.8		6		P
Cadmium	mg/Kg	20	0.29	U	0.31	U			P
Chromium	mg/Kg	20	9.62		10.3		7		P
Lead	mg/Kg	20	9.00		9.71		8		P
Selenium	mg/Kg	20	0.42	J	1.03	U	200.0		P
Silver	mg/Kg	20	1.44		1.54		7		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JPCL Engineering **Level:** LOW **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485
Matrix: Solid **Sample ID:** Q1482-01MS **Client ID:** OR-03-030425MSD
Percent Solids for Sample: 90.8 **Duplicate ID** Q1482-01MSD **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/Kg	20	35.2		35.7		1		P
Barium	mg/Kg	20	40.0		39.3		2		P
Cadmium	mg/Kg	20	8.89		8.98		1		P
Chromium	mg/Kg	20	27.2		26.9		1		P
Lead	mg/Kg	20	57.1		57.5		1		P
Selenium	mg/Kg	20	76.5		77.5		1		P
Silver	mg/Kg	20	4.47		4.38		2		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166977BS							
Arsenic	mg/Kg	39.8	39.2		98	80 - 120	P
Barium	mg/Kg	10.0	8.73		87	80 - 120	P
Cadmium	mg/Kg	10.0	9.17		92	80 - 120	P
Chromium	mg/Kg	19.9	21.0		106	80 - 120	P
Lead	mg/Kg	49.8	47.0		94	80 - 120	P
Selenium	mg/Kg	99.5	95.1		96	80 - 120	P
Silver	mg/Kg	3.7	3.85		104	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JPCL Engineering **SDG No.:** Q1485
Contract: JPCL01 **Lab Code:** CHEM **Case No.:** Q1485 **SAS No.:** Q1485

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166988BS Mercury	mg/Kg	0.25	0.25		100	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

BU-03-02282025L

Lab Name: Chemtech Consulting Group

Contract: JPCL01

Lab Code: CHEM

Lb No.: lb134903

Lab Sample ID : Q1474-01L

SDG No.: Q1485

Matrix (soil/water): Solid

Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.023	0.066 U	100.0		CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

OR-03-030425L

Lab Name: Chemtech Consulting Group

Contract: JPCL01

Lab Code: CHEM **Lb No.:** lb134928 **Lab Sample ID :** Q1482-01L **SDG No.:** Q1485

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference		Q	M
		C		C				
Arsenic	2.23		2.89	J	30			P
Barium	28.9		31.9		11			P
Cadmium	0.29	U	1.44	U				P
Chromium	9.62		10.8		13			P
Lead	9.00		9.93		10			P
Selenium	0.42	J	4.79	U	100.0			P
Silver	1.44		1.55	J	8			P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering

SDG No.: Q1485

Contract: JPCL01

Lab Code: CHEM

Case No.: Q1485

SAS No.: Q1485

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
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering

SDG No.: Q1485

Contract: JPCL01

Lab Code: CHEM

Case No.: Q1485

SAS No.: Q1485

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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering

SDG No.: Q1485

Contract: JPCL01

Lab Code: CHEM

Case No.: Q1485

SAS No.: Q1485

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
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering

SDG No.: Q1485

Contract: JPCL01

Lab Code: CHEM

Case No.: Q1485

SAS No.: Q1485

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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering

SDG No.: Q1485

Contract: JPCL01

Lab Code: CHEM

Case No.: Q1485

SAS No.: Q1485

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
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	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

METAL
PREPARATION &
ANALYICAL
SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>JPCL Engineering</u>	SDG No.:	<u>Q1485</u>
Contract:	<u>JPCL01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1485</u>
		SAS No.:	<u>Q1485</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166977							
PB166977BL	PB166977BL	MB	SOLID	03/05/2025	2.04	100.0	100.00
PB166977BS	PB166977BS	LCS	SOLID	03/05/2025	2.01	100.0	100.00
Q1482-01DUP	OR-03-030425DUP	DUP	SOLID	03/05/2025	2.14	100.0	90.80
Q1482-01MS	OR-03-030425MS	MS	SOLID	03/05/2025	2.27	100.0	90.80
Q1482-01MSD	OR-03-030425MSD	MSD	SOLID	03/05/2025	2.29	100.0	90.80
Q1485-01	DN-B-41	SAM	SOLID	03/05/2025	2.26	100.0	83.10

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>JPCL Engineering</u>	SDG No.:	<u>Q1485</u>
Contract:	<u>JPCL01</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1485</u>
		SAS No.:	<u>Q1485</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB166988							
PB166988BL	PB166988BL	MB	SOLID	03/05/2025	0.52	35.0	100.00
PB166988BS	PB166988BS	LCS	SOLID	03/05/2025	0.55	35.0	100.00
Q1474-01DUP	BU-03-02282025DUP	DUP	SOLID	03/05/2025	0.55	35.0	93.30
Q1474-01MS	BU-03-02282025MS	MS	SOLID	03/05/2025	0.53	35.0	93.30
Q1474-01MSD	BU-03-02282025MSD	MSD	SOLID	03/05/2025	0.56	35.0	93.30
Q1485-01	DN-B-41	SAM	SOLID	03/05/2025	0.55	35.0	83.10

metals
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ANALYSIS RUN LOG

Client: JPCL Engineering **Contract:** JPCL01

Lab code: CHEM **Case no.:** Q1485 **Sas no.:** Q1485 **Sdg no.:** Q1485

Instrument id number: **Method:** **Run number:** LB134903

Start date: 03/05/2025 **End date:** 03/05/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1342	HG
S0.2	S0.2	1	1344	HG
S2.5	S2.5	1	1346	HG
S5	S5	1	1349	HG
S7.5	S7.5	1	1351	HG
S10	S10	1	1356	HG
ICV32	ICV32	1	1359	HG
ICB32	ICB32	1	1401	HG
CCV65	CCV65	1	1403	HG
CCB65	CCB65	1	1406	HG
CRA	CRA	1	1408	HG
PB166988BL	PB166988BL	1	1419	HG
PB166988BS	PB166988BS	1	1421	HG
Q1474-01DUP	BU-03-02282025DUP	1	1431	HG
Q1474-01MS	BU-03-02282025MS	1	1434	HG
Q1474-01MSD	BU-03-02282025MSD	1	1436	HG
CCV66	CCV66	1	1440	HG
CCB66	CCB66	1	1443	HG
Q1485-01	DN-B-41	1	1501	HG
CCV67	CCV67	1	1508	HG
CCB67	CCB67	1	1510	HG
Q1474-01L	BU-03-02282025L	5	1522	HG
CCV68	CCV68	1	1529	HG
CCB68	CCB68	1	1531	HG

metals
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ANALYSIS RUN LOG

Client: JPCL Engineering **Contract:** JPCL01

Lab code: CHEM **Case no.:** Q1485 **Sas no.:** Q1485 **Sdg no.:** Q1485

Instrument id number: **Method:** **Run number:** LB134928

Start date: 03/06/2025 **End date:** 03/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1019	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1024	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1028	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1032	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1037	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1041	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1050	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1138	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1143	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1147	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1151	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1204	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1219	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1223	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1310	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1314	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1400	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
Q1482-01DUP	OR-03-030425DUP	1	1426	Ag,As,Ba,Cd,Cr,Pb,Se
Q1482-01L	OR-03-030425L	5	1430	Ag,As,Ba,Cd,Cr,Pb,Se
Q1482-01MS	OR-03-030425MS	1	1434	Ag,As,Ba,Cd,Cr,Pb,Se
Q1482-01MSD	OR-03-030425MSD	1	1438	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1450	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1454	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1553	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1557	Ag,As,Ba,Cd,Cr,Pb,Se

metals
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ANALYSIS RUN LOG

Client: JPCL Engineering **Contract:** JPCL01

Lab code: CHEM **Case no.:** Q1485 **Sas no.:** Q1485 **Sdg no.:** Q1485

Instrument id number: **Method:** **Run number:** LB135011

Start date: 03/12/2025 **End date:** 03/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1027	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1031	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1035	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1039	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1044	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1048	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1052	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1056	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1101	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1105	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1109	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1114	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1129	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1134	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1220	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1224	Ag,As,Ba,Cd,Cr,Pb,Se
PB166977BL	PB166977BL	1	1228	Ag,As,Ba,Cd,Cr,Pb,Se
PB166977BS	PB166977BS	1	1233	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1310	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1314	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1424	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1428	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1525	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1529	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1625	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1630	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1725	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1730	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1823	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1827	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1849	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1853	Ag,As,Ba,Cd,Cr,Pb,Se

metals
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ANALYSIS RUN LOG

Client: JPCL Engineering **Contract:** JPCL01

Lab code: CHEM **Case no.:** Q1485 **Sas no.:** Q1485 **Sdg no.:** Q1485

Instrument id number: **Method:** **Run number:** LB135035

Start date: 03/13/2025 **End date:** 03/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1142	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1146	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1150	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1154	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1159	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1203	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1207	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1213	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1217	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1221	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1225	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1230	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1253	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1258	Ag,As,Ba,Cd,Cr,Pb,Se
Q1485-01	DN-B-41	1	1319	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1349	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1354	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1440	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1448	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1538	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1542	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1632	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1721	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1725	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1812	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1835	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1853	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1903	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1912	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1921	Ag,As,Ba,Cd,Cr,Pb,Se