

LAB CHRONICLE

OrderID: Q3736	OrderDate: 11/26/2025 3:35:00 PM
Client: JPCL Engineering	Project: NYCDPR BGCY Playground - W 145th St
Contact: Jim Lau	Location: A11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3736-01	D1	SOIL			11/26/25			11/26/25
			Mercury	7471B		12/01/25	12/02/25	
			Metals ICP-Group1	6010D		12/01/25	12/01/25	
Q3736-02	D1	TCLP			11/26/25			11/26/25
			TCLP ICP Metals	6010D		12/01/25	12/01/25	
			TCLP Mercury	7470A		12/01/25	12/01/25	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.:	Q3736	Order ID:	Q3736
Client:	JPCL Engineering	Project ID:	NYCDPR BGCY Playground - W 145th St

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : D1								
Q3736-02	D1	TCLP	Barium	3230		72.8	500	ug/L
Q3736-02	D1	TCLP	Cadmium	9.28	J	2.50	30.0	ug/L
Q3736-02	D1	TCLP	Chromium	165		10.6	50.0	ug/L
Q3736-02	D1	TCLP	Lead	267		11.5	60.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	JPCL Engineering	Date Collected:	11/26/25
Project:	NYCDPR BGCY Playground - W 145th St	Date Received:	11/26/25
Client Sample ID:	D1	SDG No.:	Q3736
Lab Sample ID:	Q3736-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	100	U	1	25.6	100	ug/L	12/01/25 12:30	12/01/25 15:53	6010D	M3010A
7440-39-3	Barium	3230	N	1	72.8	500	ug/L	12/01/25 12:30	12/01/25 15:53	6010D	M3010A
7440-43-9	Cadmium	9.28	J	1	2.50	30.0	ug/L	12/01/25 12:30	12/01/25 15:53	6010D	M3010A
7440-47-3	Chromium	165		1	10.6	50.0	ug/L	12/01/25 12:30	12/01/25 15:53	6010D	M3010A
7439-92-1	Lead	267		1	11.5	60.0	ug/L	12/01/25 12:30	12/01/25 15:53	6010D	M3010A
7439-97-6	Mercury	2.00	U	1	0.76	2.00	ug/L	12/01/25 12:30	12/01/25 15:25	7470A	M7470A
7782-49-2	Selenium	100	U	1	48.2	100	ug/L	12/01/25 12:30	12/01/25 15:53	6010D	M3010A
7440-22-4	Silver	50.0	U	1	8.10	50.0	ug/L	12/01/25 12:30	12/01/25 15:53	6010D	M3010A

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

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
ICV132	Mercury	3.68	4.0	92	90 - 110	CV	12/01/2025	14:54	1b138068

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

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
CCV44	Mercury	4.92	5.0	98	90 - 110	CV	12/01/2025	15:02	1b138068
CCV45	Mercury	4.99	5.0	100	90 - 110	CV	12/01/2025	15:34	1b138068
CCV46	Mercury	4.99	5.0	100	90 - 110	CV	12/01/2025	16:06	1b138068
CCV47	Mercury	4.92	5.0	98	90 - 110	CV	12/01/2025	16:24	1b138068

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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	4020	4000	101	90 - 110	P	12/01/2025	13:16	LB138072
	Barium	7850	8000	98	90 - 110	P	12/01/2025	13:16	LB138072
	Cadmium	1940	2000	97	90 - 110	P	12/01/2025	13:16	LB138072
	Chromium	791	800	99	90 - 110	P	12/01/2025	13:16	LB138072
	Lead	3830	4000	96	90 - 110	P	12/01/2025	13:16	LB138072
	Selenium	4190	4000	105	90 - 110	P	12/01/2025	13:16	LB138072
	Silver	1000	1000	100	90 - 110	P	12/01/2025	13:16	LB138072

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

Contract: JPCL01

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3736

Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	23.8	20.0	119	80 - 120	P	12/01/2025	13:42	LB138072
	Barium	105	100	105	80 - 120	P	12/01/2025	13:42	LB138072
	Cadmium	6.23	6.0	104	80 - 120	P	12/01/2025	13:42	LB138072
	Chromium	9.35	10.0	94	80 - 120	P	12/01/2025	13:42	LB138072
	Lead	11.5	12.0	96	80 - 120	P	12/01/2025	13:42	LB138072
	Selenium	20.6	20.0	103	80 - 120	P	12/01/2025	13:42	LB138072
	Silver	9.97	10.0	100	80 - 120	P	12/01/2025	13:42	LB138072

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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	5040	5000	101	90 - 110	P	12/01/2025	14:30	LB138072
	Barium	9960	10000	100	90 - 110	P	12/01/2025	14:30	LB138072
	Cadmium	2470	2500	99	90 - 110	P	12/01/2025	14:30	LB138072
	Chromium	994	1000	99	90 - 110	P	12/01/2025	14:30	LB138072
	Lead	4970	5000	100	90 - 110	P	12/01/2025	14:30	LB138072
	Selenium	5140	5000	103	90 - 110	P	12/01/2025	14:30	LB138072
	Silver	1270	1250	102	90 - 110	P	12/01/2025	14:30	LB138072
CCV02	Arsenic	4990	5000	100	90 - 110	P	12/01/2025	15:26	LB138072
	Barium	10200	10000	102	90 - 110	P	12/01/2025	15:26	LB138072
	Cadmium	2410	2500	97	90 - 110	P	12/01/2025	15:26	LB138072
	Chromium	958	1000	96	90 - 110	P	12/01/2025	15:26	LB138072
	Lead	4870	5000	98	90 - 110	P	12/01/2025	15:26	LB138072
	Selenium	5090	5000	102	90 - 110	P	12/01/2025	15:26	LB138072
	Silver	1250	1250	100	90 - 110	P	12/01/2025	15:26	LB138072
CCV03	Arsenic	5100	5000	102	90 - 110	P	12/01/2025	16:33	LB138072
	Barium	10000	10000	100	90 - 110	P	12/01/2025	16:33	LB138072
	Cadmium	2450	2500	98	90 - 110	P	12/01/2025	16:33	LB138072
	Chromium	995	1000	100	90 - 110	P	12/01/2025	16:33	LB138072
	Lead	4940	5000	99	90 - 110	P	12/01/2025	16:33	LB138072
	Selenium	5180	5000	104	90 - 110	P	12/01/2025	16:33	LB138072
	Silver	1270	1250	102	90 - 110	P	12/01/2025	16:33	LB138072
CCV04	Arsenic	5140	5000	103	90 - 110	P	12/01/2025	17:25	LB138072
	Barium	10500	10000	104	90 - 110	P	12/01/2025	17:25	LB138072
	Cadmium	2500	2500	100	90 - 110	P	12/01/2025	17:25	LB138072
	Chromium	1010	1000	100	90 - 110	P	12/01/2025	17:25	LB138072
	Lead	5050	5000	101	90 - 110	P	12/01/2025	17:25	LB138072
	Selenium	5140	5000	103	90 - 110	P	12/01/2025	17:25	LB138072
	Silver	1310	1250	105	90 - 110	P	12/01/2025	17:25	LB138072
CCV05	Arsenic	5110	5000	102	90 - 110	P	12/01/2025	18:16	LB138072
	Barium	9960	10000	100	90 - 110	P	12/01/2025	18:16	LB138072
	Cadmium	2500	2500	100	90 - 110	P	12/01/2025	18:16	LB138072
	Chromium	1030	1000	103	90 - 110	P	12/01/2025	18:16	LB138072
	Lead	5020	5000	100	90 - 110	P	12/01/2025	18:16	LB138072
	Selenium	5160	5000	103	90 - 110	P	12/01/2025	18:16	LB138072

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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	12/01/2025	18:16	LB138072
CCV06	Arsenic	5230	5000	105	90 - 110	P	12/01/2025	19:07	LB138072
	Barium	10300	10000	102	90 - 110	P	12/01/2025	19:07	LB138072
	Cadmium	2540	2500	102	90 - 110	P	12/01/2025	19:07	LB138072
	Chromium	1020	1000	102	90 - 110	P	12/01/2025	19:07	LB138072
	Lead	5110	5000	102	90 - 110	P	12/01/2025	19:07	LB138072
	Selenium	5320	5000	106	90 - 110	P	12/01/2025	19:07	LB138072
	Silver	1310	1250	105	90 - 110	P	12/01/2025	19:07	LB138072
CCV07	Arsenic	5410	5000	108	90 - 110	P	12/01/2025	19:24	LB138072
	Barium	10300	10000	103	90 - 110	P	12/01/2025	19:24	LB138072
	Cadmium	2630	2500	105	90 - 110	P	12/01/2025	19:24	LB138072
	Chromium	1040	1000	104	90 - 110	P	12/01/2025	19:24	LB138072
	Lead	5280	5000	106	90 - 110	P	12/01/2025	19:24	LB138072
	Selenium	5530	5000	110	90 - 110	P	12/01/2025	19:24	LB138072
	Silver	1340	1250	107	90 - 110	P	12/01/2025	19:24	LB138072

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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	3880	4000	97	90 - 110	P	12/02/2025	11:29	LB138085
	Barium	8280	8000	104	90 - 110	P	12/02/2025	11:29	LB138085
	Cadmium	1920	2000	96	90 - 110	P	12/02/2025	11:29	LB138085
	Chromium	781	800	98	90 - 110	P	12/02/2025	11:29	LB138085
	Lead	3790	4000	95	90 - 110	P	12/02/2025	11:29	LB138085
	Selenium	3970	4000	99	90 - 110	P	12/02/2025	11:29	LB138085
	Silver	1080	1000	108	90 - 110	P	12/02/2025	11:29	LB138085

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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	22.6	20.0	113	80 - 120	P	12/02/2025	11:34	LB138085
	Barium	104	100	104	80 - 120	P	12/02/2025	11:34	LB138085
	Cadmium	6.22	6.0	104	80 - 120	P	12/02/2025	11:34	LB138085
	Chromium	9.91	10.0	99	80 - 120	P	12/02/2025	11:34	LB138085
	Lead	11.3	12.0	94	80 - 120	P	12/02/2025	11:34	LB138085
	Selenium	18.8	20.0	94	80 - 120	P	12/02/2025	11:34	LB138085
	Silver	10.3	10.0	103	80 - 120	P	12/02/2025	11:34	LB138085

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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	4950	5000	99	90 - 110	P	12/02/2025	12:10	LB138085
	Barium	10200	10000	102	90 - 110	P	12/02/2025	12:10	LB138085
	Cadmium	2470	2500	99	90 - 110	P	12/02/2025	12:10	LB138085
	Chromium	1000	1000	100	90 - 110	P	12/02/2025	12:10	LB138085
	Lead	4950	5000	99	90 - 110	P	12/02/2025	12:10	LB138085
	Selenium	4980	5000	100	90 - 110	P	12/02/2025	12:10	LB138085
	Silver	1250	1250	100	90 - 110	P	12/02/2025	12:10	LB138085
CCV02	Arsenic	5050	5000	101	90 - 110	P	12/02/2025	13:13	LB138085
	Barium	9890	10000	99	90 - 110	P	12/02/2025	13:13	LB138085
	Cadmium	2500	2500	100	90 - 110	P	12/02/2025	13:13	LB138085
	Chromium	1020	1000	102	90 - 110	P	12/02/2025	13:13	LB138085
	Lead	5020	5000	100	90 - 110	P	12/02/2025	13:13	LB138085
	Selenium	5180	5000	104	90 - 110	P	12/02/2025	13:13	LB138085
	Silver	1280	1250	103	90 - 110	P	12/02/2025	13:13	LB138085
CCV03	Arsenic	5040	5000	101	90 - 110	P	12/02/2025	14:11	LB138085
	Barium	10100	10000	102	90 - 110	P	12/02/2025	14:11	LB138085
	Cadmium	2470	2500	99	90 - 110	P	12/02/2025	14:11	LB138085
	Chromium	987	1000	99	90 - 110	P	12/02/2025	14:11	LB138085
	Lead	4970	5000	100	90 - 110	P	12/02/2025	14:11	LB138085
	Selenium	5230	5000	105	90 - 110	P	12/02/2025	14:11	LB138085
	Silver	1260	1250	100	90 - 110	P	12/02/2025	14:11	LB138085
CCV04	Arsenic	5140	5000	103	90 - 110	P	12/02/2025	15:15	LB138085
	Barium	10500	10000	105	90 - 110	P	12/02/2025	15:15	LB138085
	Cadmium	2500	2500	100	90 - 110	P	12/02/2025	15:15	LB138085
	Chromium	990	1000	99	90 - 110	P	12/02/2025	15:15	LB138085
	Lead	5050	5000	101	90 - 110	P	12/02/2025	15:15	LB138085
	Selenium	5330	5000	107	90 - 110	P	12/02/2025	15:15	LB138085
	Silver	1280	1250	102	90 - 110	P	12/02/2025	15:15	LB138085
CCV05	Arsenic	5040	5000	101	90 - 110	P	12/02/2025	16:05	LB138085
	Barium	10600	10000	106	90 - 110	P	12/02/2025	16:05	LB138085
	Cadmium	2460	2500	98	90 - 110	P	12/02/2025	16:05	LB138085
	Chromium	968	1000	97	90 - 110	P	12/02/2025	16:05	LB138085
	Lead	4950	5000	99	90 - 110	P	12/02/2025	16:05	LB138085
	Selenium	5220	5000	104	90 - 110	P	12/02/2025	16:05	LB138085

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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	12/02/2025	16:05	LB138085
CCV06	Arsenic	5050	5000	101	90 - 110	P	12/02/2025	16:55	LB138085
	Barium	10400	10000	104	90 - 110	P	12/02/2025	16:55	LB138085
	Cadmium	2470	2500	99	90 - 110	P	12/02/2025	16:55	LB138085
	Chromium	983	1000	98	90 - 110	P	12/02/2025	16:55	LB138085
	Lead	5000	5000	100	90 - 110	P	12/02/2025	16:55	LB138085
	Selenium	5220	5000	104	90 - 110	P	12/02/2025	16:55	LB138085
	Silver	1260	1250	101	90 - 110	P	12/02/2025	16:55	LB138085



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

- 2b -

CRDL STANDARD FOR AA & ICP

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

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
CRI01	Arsenic	22.7	20.0	114	65 - 135	P	12/01/2025	13:50	LB138072
	Barium	102	100	102	65 - 135	P	12/01/2025	13:50	LB138072
	Cadmium	6.21	6.0	104	65 - 135	P	12/01/2025	13:50	LB138072
	Chromium	9.87	10.0	99	65 - 135	P	12/01/2025	13:50	LB138072
	Lead	13.2	12.0	110	65 - 135	P	12/01/2025	13:50	LB138072
	Selenium	22.4	20.0	112	65 - 135	P	12/01/2025	13:50	LB138072
	Silver	10.2	10.0	102	65 - 135	P	12/01/2025	13:50	LB138072
CRA	Mercury	0.15	0.2	73	70 - 130	CV	12/01/2025	15:09	lb138068
CRI01	Arsenic	20.2	20.0	101	65 - 135	P	12/02/2025	11:42	LB138085
	Barium	102	100	102	65 - 135	P	12/02/2025	11:42	LB138085
	Cadmium	6.34	6.0	106	65 - 135	P	12/02/2025	11:42	LB138085
	Chromium	10.6	10.0	106	65 - 135	P	12/02/2025	11:42	LB138085
	Lead	10.2	12.0	85	65 - 135	P	12/02/2025	11:42	LB138085
	Selenium	19.3	20.0	96	65 - 135	P	12/02/2025	11:42	LB138085
	Silver	10.1	10.0	101	65 - 135	P	12/02/2025	11:42	LB138085



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

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB132	Mercury	0.076	+/-0.2	U	0.20	CV	12/01/2025	14:56	lb138068

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB44	Mercury	0.076	+/-0.2	U	0.20	CV	12/01/2025	15:04	lb138068
CCB45	Mercury	0.076	+/-0.2	U	0.20	CV	12/01/2025	15:37	lb138068
CCB46	Mercury	0.076	+/-0.2	U	0.20	CV	12/01/2025	16:08	lb138068
CCB47	Mercury	0.076	+/-0.2	U	0.20	CV	12/01/2025	16:26	lb138068

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	12/01/2025	13:46	LB138072
	Barium	14.6	+/-50	U	100	P	12/01/2025	13:46	LB138072
	Cadmium	0.50	+/-3	U	6.00	P	12/01/2025	13:46	LB138072
	Chromium	2.12	+/-5	U	10.0	P	12/01/2025	13:46	LB138072
	Lead	2.30	+/-6	U	12.0	P	12/01/2025	13:46	LB138072
	Selenium	9.64	+/-10	U	20.0	P	12/01/2025	13:46	LB138072
	Silver	1.62	+/-5	U	10.0	P	12/01/2025	13:46	LB138072

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering **SDG No.:** Q3736
Contract: JPCL01 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	12/01/2025	14:34	LB138072
	Barium	14.6	+/-50	U	100	P	12/01/2025	14:34	LB138072
	Cadmium	0.50	+/-3	U	6.00	P	12/01/2025	14:34	LB138072
	Chromium	2.12	+/-5	U	10.0	P	12/01/2025	14:34	LB138072
	Lead	2.30	+/-6	U	12.0	P	12/01/2025	14:34	LB138072
	Selenium	9.64	+/-10	U	20.0	P	12/01/2025	14:34	LB138072
	Silver	1.62	+/-5	U	10.0	P	12/01/2025	14:34	LB138072
CCB02	Arsenic	5.12	+/-10	U	20.0	P	12/01/2025	15:31	LB138072
	Barium	14.6	+/-50	U	100	P	12/01/2025	15:31	LB138072
	Cadmium	0.50	+/-3	U	6.00	P	12/01/2025	15:31	LB138072
	Chromium	2.12	+/-5	U	10.0	P	12/01/2025	15:31	LB138072
	Lead	2.30	+/-6	U	12.0	P	12/01/2025	15:31	LB138072
	Selenium	9.64	+/-10	U	20.0	P	12/01/2025	15:31	LB138072
	Silver	1.62	+/-5	U	10.0	P	12/01/2025	15:31	LB138072
CCB03	Arsenic	5.12	+/-10	U	20.0	P	12/01/2025	16:38	LB138072
	Barium	14.6	+/-50	U	100	P	12/01/2025	16:38	LB138072
	Cadmium	0.50	+/-3	U	6.00	P	12/01/2025	16:38	LB138072
	Chromium	2.12	+/-5	U	10.0	P	12/01/2025	16:38	LB138072
	Lead	2.30	+/-6	U	12.0	P	12/01/2025	16:38	LB138072
	Selenium	9.64	+/-10	U	20.0	P	12/01/2025	16:38	LB138072
	Silver	1.62	+/-5	U	10.0	P	12/01/2025	16:38	LB138072
CCB04	Arsenic	5.12	+/-10	U	20.0	P	12/01/2025	17:29	LB138072
	Barium	14.6	+/-50	U	100	P	12/01/2025	17:29	LB138072
	Cadmium	0.50	+/-3	U	6.00	P	12/01/2025	17:29	LB138072
	Chromium	2.12	+/-5	U	10.0	P	12/01/2025	17:29	LB138072
	Lead	2.30	+/-6	U	12.0	P	12/01/2025	17:29	LB138072
	Selenium	9.64	+/-10	U	20.0	P	12/01/2025	17:29	LB138072
	Silver	1.62	+/-5	U	10.0	P	12/01/2025	17:29	LB138072
CCB05	Arsenic	5.12	+/-10	U	20.0	P	12/01/2025	18:20	LB138072
	Barium	14.6	+/-50	U	100	P	12/01/2025	18:20	LB138072
	Cadmium	0.50	+/-3	U	6.00	P	12/01/2025	18:20	LB138072
	Chromium	2.12	+/-5	U	10.0	P	12/01/2025	18:20	LB138072
	Lead	2.30	+/-6	U	12.0	P	12/01/2025	18:20	LB138072
	Selenium	9.64	+/-10	U	20.0	P	12/01/2025	18:20	LB138072
	Silver	1.62	+/-5	U	10.0	P	12/01/2025	18:20	LB138072
CCB06	Arsenic	5.12	+/-10	U	20.0	P	12/01/2025	19:11	LB138072
	Barium	14.6	+/-50	U	100	P	12/01/2025	19:11	LB138072
	Cadmium	0.50	+/-3	U	6.00	P	12/01/2025	19:11	LB138072
	Chromium	2.12	+/-5	U	10.0	P	12/01/2025	19:11	LB138072

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	2.30	+/-6	U	12.0	P	12/01/2025	19:11	LB138072
	Selenium	9.64	+/-10	U	20.0	P	12/01/2025	19:11	LB138072
	Silver	1.62	+/-5	U	10.0	P	12/01/2025	19:11	LB138072
CCB07	Arsenic	5.12	+/-10	U	20.0	P	12/01/2025	19:28	LB138072
	Barium	14.6	+/-50	U	100	P	12/01/2025	19:28	LB138072
	Cadmium	0.50	+/-3	U	6.00	P	12/01/2025	19:28	LB138072
	Chromium	2.12	+/-5	U	10.0	P	12/01/2025	19:28	LB138072
	Lead	2.30	+/-6	U	12.0	P	12/01/2025	19:28	LB138072
	Selenium	9.64	+/-10	U	20.0	P	12/01/2025	19:28	LB138072
	Silver	1.62	+/-5	U	10.0	P	12/01/2025	19:28	LB138072

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	12/02/2025	11:38	LB138085
	Barium	14.6	+/-50	U	100	P	12/02/2025	11:38	LB138085
	Cadmium	0.50	+/-3	U	6.00	P	12/02/2025	11:38	LB138085
	Chromium	2.12	+/-5	U	10.0	P	12/02/2025	11:38	LB138085
	Lead	2.30	+/-6	U	12.0	P	12/02/2025	11:38	LB138085
	Selenium	9.64	+/-10	U	20.0	P	12/02/2025	11:38	LB138085
	Silver	1.62	+/-5	U	10.0	P	12/02/2025	11:38	LB138085

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	12/02/2025	12:14	LB138085
	Barium	14.6	+/-50	U	100	P	12/02/2025	12:14	LB138085
	Cadmium	0.50	+/-3	U	6.00	P	12/02/2025	12:14	LB138085
	Chromium	2.12	+/-5	U	10.0	P	12/02/2025	12:14	LB138085
	Lead	2.30	+/-6	U	12.0	P	12/02/2025	12:14	LB138085
	Selenium	9.64	+/-10	U	20.0	P	12/02/2025	12:14	LB138085
	Silver	1.62	+/-5	U	10.0	P	12/02/2025	12:14	LB138085
CCB02	Arsenic	5.12	+/-10	U	20.0	P	12/02/2025	13:17	LB138085
	Barium	14.6	+/-50	U	100	P	12/02/2025	13:17	LB138085
	Cadmium	0.50	+/-3	U	6.00	P	12/02/2025	13:17	LB138085
	Chromium	2.12	+/-5	U	10.0	P	12/02/2025	13:17	LB138085
	Lead	2.30	+/-6	U	12.0	P	12/02/2025	13:17	LB138085
	Selenium	9.64	+/-10	U	20.0	P	12/02/2025	13:17	LB138085
	Silver	1.62	+/-5	U	10.0	P	12/02/2025	13:17	LB138085
CCB03	Arsenic	5.12	+/-10	U	20.0	P	12/02/2025	14:15	LB138085
	Barium	14.6	+/-50	U	100	P	12/02/2025	14:15	LB138085
	Cadmium	0.50	+/-3	U	6.00	P	12/02/2025	14:15	LB138085
	Chromium	2.12	+/-5	U	10.0	P	12/02/2025	14:15	LB138085
	Lead	2.30	+/-6	U	12.0	P	12/02/2025	14:15	LB138085
	Selenium	9.64	+/-10	U	20.0	P	12/02/2025	14:15	LB138085
	Silver	1.62	+/-5	U	10.0	P	12/02/2025	14:15	LB138085
CCB04	Arsenic	5.12	+/-10	U	20.0	P	12/02/2025	15:20	LB138085
	Barium	14.6	+/-50	U	100	P	12/02/2025	15:20	LB138085
	Cadmium	0.50	+/-3	U	6.00	P	12/02/2025	15:20	LB138085
	Chromium	2.12	+/-5	U	10.0	P	12/02/2025	15:20	LB138085
	Lead	2.30	+/-6	U	12.0	P	12/02/2025	15:20	LB138085
	Selenium	9.64	+/-10	U	20.0	P	12/02/2025	15:20	LB138085
	Silver	1.62	+/-5	U	10.0	P	12/02/2025	15:20	LB138085
CCB05	Arsenic	5.12	+/-10	U	20.0	P	12/02/2025	16:09	LB138085
	Barium	14.6	+/-50	U	100	P	12/02/2025	16:09	LB138085
	Cadmium	0.50	+/-3	U	6.00	P	12/02/2025	16:09	LB138085
	Chromium	2.12	+/-5	U	10.0	P	12/02/2025	16:09	LB138085
	Lead	2.30	+/-6	U	12.0	P	12/02/2025	16:09	LB138085
	Selenium	9.64	+/-10	U	20.0	P	12/02/2025	16:09	LB138085
	Silver	1.62	+/-5	U	10.0	P	12/02/2025	16:09	LB138085
CCB06	Arsenic	5.12	+/-10	U	20.0	P	12/02/2025	16:59	LB138085
	Barium	14.6	+/-50	U	100	P	12/02/2025	16:59	LB138085
	Cadmium	0.50	+/-3	U	6.00	P	12/02/2025	16:59	LB138085
	Chromium	2.12	+/-5	U	10.0	P	12/02/2025	16:59	LB138085

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	2.30	+/-6	U	12.0	P	12/02/2025	16:59	LB138085
	Selenium	9.64	+/-10	U	20.0	P	12/02/2025	16:59	LB138085
	Silver	1.62	+/-5	U	10.0	P	12/02/2025	16:59	LB138085

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170754TB		WATER		Batch Number:	PB170770		Prep Date:	12/01/2025	
	Mercury	0.76	<2	U	2.00	CV	12/01/2025	16:13	lb138068
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170770BL		WATER		Batch Number:	PB170770		Prep Date:	12/01/2025	
	Mercury	0.076	<0.2	U	0.20	CV	12/01/2025	15:19	lb138068

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170754TB		WATER		Batch Number:	PB170766		Prep Date:	12/01/2025	
	Arsenic	25.6	<50	U	100	P	12/02/2025	16:46	LB138085
	Barium	72.8	<250	U	500	P	12/02/2025	16:46	LB138085
	Cadmium	2.50	<15	U	30.0	P	12/02/2025	16:46	LB138085
	Chromium	24.4	<25	J	50.0	P	12/02/2025	16:46	LB138085
	Lead	11.5	<30	U	60.0	P	12/02/2025	16:46	LB138085
	Selenium	48.2	<50	U	100	P	12/02/2025	16:46	LB138085
	Silver	8.10	<25	U	50.0	P	12/02/2025	16:46	LB138085
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170755TB		WATER		Batch Number:	PB170766		Prep Date:	12/01/2025	
	Arsenic	25.6	<50	U	100	P	12/02/2025	16:51	LB138085
	Barium	72.8	<250	U	500	P	12/02/2025	16:51	LB138085
	Cadmium	2.50	<15	U	30.0	P	12/02/2025	16:51	LB138085
	Chromium	23.9	<25	J	50.0	P	12/02/2025	16:51	LB138085
	Lead	11.5	<30	U	60.0	P	12/02/2025	16:51	LB138085
	Selenium	48.2	<50	U	100	P	12/02/2025	16:51	LB138085
	Silver	8.10	<25	U	50.0	P	12/02/2025	16:51	LB138085
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170766BL		WATER		Batch Number:	PB170766		Prep Date:	12/01/2025	
	Arsenic	25.6	<50	U	100	P	12/01/2025	16:52	LB138072
	Barium	72.8	<250	U	500	P	12/01/2025	16:52	LB138072
	Cadmium	2.50	<15	U	30.0	P	12/01/2025	16:52	LB138072
	Chromium	10.6	<25	U	50.0	P	12/01/2025	16:52	LB138072
	Lead	11.5	<30	U	60.0	P	12/01/2025	16:52	LB138072
	Selenium	48.2	<50	U	100	P	12/01/2025	16:52	LB138072
	Silver	8.10	<25	U	50.0	P	12/01/2025	16:52	LB138072

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>JPCL Engineering</u>	SDG No.: <u>Q3736</u>
Contract: <u>JPCL01</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</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	Arsenic	4.50			-20	20	12/01/2025	13:55	LB138072
	Barium	4.98	6.0	83	-94	106	12/01/2025	13:55	LB138072
	Cadmium	4.78	1.0	478	-5	7	12/01/2025	13:55	LB138072
	Chromium	59.8	52.0	115	42	62	12/01/2025	13:55	LB138072
	Lead	2.07			-12	12	12/01/2025	13:55	LB138072
	Selenium	-14.4			-20	20	12/01/2025	13:55	LB138072
	Silver	-8.77			-10	10	12/01/2025	13:55	LB138072
ICSAB01	Arsenic	106	104	102	88.4	120	12/01/2025	14:09	LB138072
	Barium	515	537	96	437	637	12/01/2025	14:09	LB138072
	Cadmium	979	972	101	826	1120	12/01/2025	14:09	LB138072
	Chromium	528	542	97	460	624	12/01/2025	14:09	LB138072
	Lead	53.1	49.0	108	37	61	12/01/2025	14:09	LB138072
	Selenium	41.4	46.0	90	26	66	12/01/2025	14:09	LB138072
	Silver	174	201	87	170	232	12/01/2025	14:09	LB138072
ICSA01	Arsenic	2.54			-20	20	12/02/2025	11:52	LB138085
	Barium	4.18	6.0	70	-94	106	12/02/2025	11:52	LB138085
	Cadmium	4.20	1.0	420	-5	7	12/02/2025	11:52	LB138085
	Chromium	46.6	52.0	90	42	62	12/02/2025	11:52	LB138085
	Lead	5.64			-12	12	12/02/2025	11:52	LB138085
	Selenium	-2.16			-20	20	12/02/2025	11:52	LB138085
	Silver	8.41			-10	10	12/02/2025	11:52	LB138085
ICSAB01	Arsenic	108	104	104	88.4	120	12/02/2025	11:57	LB138085
	Barium	500	537	93	437	637	12/02/2025	11:57	LB138085
	Cadmium	1000	972	103	826	1120	12/02/2025	11:57	LB138085
	Chromium	538	542	99	460	624	12/02/2025	11:57	LB138085
	Lead	52.6	49.0	107	37	61	12/02/2025	11:57	LB138085
	Selenium	41.4	46.0	90	26	66	12/02/2025	11:57	LB138085
	Silver	185	201	92	170	232	12/02/2025	11:57	LB138085



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>JPCL Engineering</u>	level: <u>low</u>	sdg no.: <u>Q3736</u>
contract: <u>JPCL01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3736-02</u>	client id: <u>D1MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3736-02MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4000		100	U	4000	100		P
Barium	ug/L	75 - 125	3240		3230		1000	1	N	P
Cadmium	ug/L	75 - 125	938		9.28	J	1000	93		P
Chromium	ug/L	75 - 125	2010		165		2000	92		P
Lead	ug/L	75 - 125	4760		267		5000	90		P
Mercury	ug/L	75 - 125	35.1		2.00	U	40.0	88		CV
Selenium	ug/L	75 - 125	10100		100	U	10000	101		P
Silver	ug/L	75 - 125	358		50.0	U	380	94		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>JPCL Engineering</u>	level: <u>low</u>	sdg no.: <u>Q3736</u>
contract: <u>JPCL01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3736-02</u>	client id: <u>D1MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3736-02MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3930		100	U	4000	98		P
Barium	ug/L	75 - 125	3640		3230		1000	40	N	P
Cadmium	ug/L	75 - 125	932		9.28	J	1000	92		P
Chromium	ug/L	75 - 125	1920		165		2000	88		P
Lead	ug/L	75 - 125	4740		267		5000	90		P
Mercury	ug/L	75 - 125	38.5		2.00	U	40.0	96		CV
Selenium	ug/L	75 - 125	10000		100	U	10000	100		P
Silver	ug/L	75 - 125	351		50.0	U	380	92		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Matrix: Water

Level: LOW

Client ID: D1A

Sample ID: Q3736-02

Spiked ID: Q3736-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	4290		3230		1000	105		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>JPCL Engineering</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3736</u>
Contract:	<u>JPCL01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3736-02</u>	Client ID:	<u>D1DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3736-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	3230		3310		2		P
Cadmium	ug/L	20	9.28	J	9.57	J	3		P
Chromium	ug/L	20	165		162		2		P
Lead	ug/L	20	267		265		1		P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>JPCL Engineering</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3736</u>
Contract:	<u>JPCL01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3736-02MS</u>	Client ID:	<u>D1MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3736-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4000		3930		2		P
Barium	ug/L	20	3240		3640		12		P
Cadmium	ug/L	20	938		932		1		P
Chromium	ug/L	20	2010		1920		5		P
Lead	ug/L	20	4760		4740		0		P
Mercury	ug/L	20	35.1		38.5		9		CV
Selenium	ug/L	20	10100		10000		1		P
Silver	ug/L	20	358		351		2		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170766BS							
Arsenic	ug/L	4000	4120		103	80 - 120	P
Barium	ug/L	1000	1080		108	80 - 120	P
Cadmium	ug/L	1000	1010		101	80 - 120	P
Chromium	ug/L	2000	2060		103	80 - 120	P
Lead	ug/L	5000	5010		100	80 - 120	P
Selenium	ug/L	10000	10400		104	80 - 120	P
Silver	ug/L	380	401		106	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170770BS Mercury	ug/L	4.0	3.77		94	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

DIL

Lab Name: Alliance **Contract:** JPCL01
Lab Code: ACE **Lb No.:** lb138072 **Lab Sample ID :** Q3736-02L **SDG No.:** Q3736
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence		Q	M
		C		C				
Arsenic	100	U	500	U				P
Barium	3230		3230		0			P
Cadmium	9.28	J	150	U	100.0			P
Chromium	165		167	J	1			P
Lead	267		279	J	4			P
Mercury	2.00	U	10.0	U				CV
Selenium	100	U	500	U				P
Silver	50.0	U	250	U				P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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.: Q3736

Contract: JPCL01

Lab Code: ACE

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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

Lab Code: ACE

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.: Q3736

Contract: JPCL01

Lab Code: ACE

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.: Q3736

Contract: JPCL01

Lab Code: ACE

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: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

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: PB170766							
PB170754TB	PB170754TB	MB	WATER	12/01/2025	5.0	25.0	
PB170755TB	PB170755TB	MB	WATER	12/01/2025	5.0	25.0	
PB170766BL	PB170766BL	MB	WATER	12/01/2025	5.0	25.0	
PB170766BS	PB170766BS	LCS	WATER	12/01/2025	5.0	25.0	
Q3736-02	D1	SAM	WATER	12/01/2025	5.0	25.0	
Q3736-02DUP	D1DUP	DUP	WATER	12/01/2025	5.0	25.0	
Q3736-02MS	D1MS	MS	WATER	12/01/2025	5.0	25.0	
Q3736-02MSD	D1MSD	MSD	WATER	12/01/2025	5.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client: JPCL Engineering

SDG No.: Q3736

Contract: JPCL01

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: PB170770							
PB170754TB	PB170754TB	MB	WATER	12/01/2025	3.0	30.0	
PB170770BL	PB170770BL	MB	WATER	12/01/2025	30.0	30.0	
PB170770BS	PB170770BS	LCS	WATER	12/01/2025	30.0	30.0	
Q3736-02	D1	SAM	WATER	12/01/2025	3.0	30.0	
Q3736-02DUP	D1DUP	DUP	WATER	12/01/2025	3.0	30.0	
Q3736-02MS	D1MS	MS	WATER	12/01/2025	3.0	30.0	
Q3736-02MSD	D1MSD	MSD	WATER	12/01/2025	3.0	30.0	

metals
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ANALYSIS RUN LOG

Client: JPCL Engineering

Contract: JPCL01

Lab code: ACE

Sdg no.: Q3736

Instrument id number: _____

Method: _____

Run number: lb138068

Start date: 12/01/2025

End date: 12/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1438	HG
S0.2	S0.2	1	1441	HG
S2.5	S2.5	1	1443	HG
S5	S5	1	1445	HG
S7.5	S7.5	1	1447	HG
S10	S10	1	1450	HG
ICV132	ICV132	1	1454	HG
ICB132	ICB132	1	1456	HG
CCV44	CCV44	1	1502	HG
CCB44	CCB44	1	1504	HG
CRA	CRA	1	1509	HG
PB170770BL	PB170770BL	1	1519	HG
PB170770BS	PB170770BS	1	1521	HG
Q3736-02	D1	1	1525	HG
Q3736-02DUP	D1DUP	1	1528	HG
Q3736-02MS	D1MS	1	1530	HG
Q3736-02MSD	D1MSD	1	1532	HG
CCV45	CCV45	1	1534	HG
CCB45	CCB45	1	1537	HG
CCV46	CCV46	1	1606	HG
CCB46	CCB46	1	1608	HG
PB170754TB	PB170754TB	1	1613	HG
Q3736-02L	D1L	5	1615	HG
CCV47	CCV47	1	1624	HG
CCB47	CCB47	1	1626	HG

metals
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ANALYSIS RUN LOG

Client: JPCL Engineering

Contract: JPCL01

Lab code: ACE

Sdg no.: Q3736

Instrument id number: _____

Method: _____

Run number: LB138072

Start date: 12/01/2025

End date: 12/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1235	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1239	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1243	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1247	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1251	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1256	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1316	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1342	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1346	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1350	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1355	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1409	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1430	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1434	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1526	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1531	Ag,As,Ba,Cd,Cr,Pb,Se
Q3736-02	D1	1	1553	Ag,As,Ba,Cd,Cr,Pb,Se
Q3736-02DUP	D1DUP	1	1558	Ag,As,Ba,Cd,Cr,Pb,Se
Q3736-02L	D1L	5	1611	Ag,As,Ba,Cd,Cr,Pb,Se
Q3736-02MS	D1MS	1	1616	Ag,As,Ba,Cd,Cr,Pb,Se
Q3736-02MSD	D1MSD	1	1620	Ag,As,Ba,Cd,Cr,Pb,Se
Q3736-02A	D1A	1	1624	Ba
CCV03	CCV03	1	1633	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1638	Ag,As,Ba,Cd,Cr,Pb,Se
PB170766BL	PB170766BL	1	1652	Ag,As,Ba,Cd,Cr,Pb,Se
PB170766BS	PB170766BS	1	1656	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1725	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1729	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1816	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1820	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1907	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1911	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1924	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1928	Ag,As,Ba,Cd,Cr,Pb,Se

metals
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ANALYSIS RUN LOG

Client: JPCL Engineering

Contract: JPCL01

Lab code: ACE

Sdg no.: Q3736

Instrument id number: _____

Method: _____

Run number: LB138085

Start date: 12/02/2025

End date: 12/02/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1104	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1108	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1112	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1116	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1121	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1125	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1129	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1134	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1138	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1142	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1152	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1157	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1210	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1214	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1313	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1317	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1411	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1415	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1515	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1520	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1605	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1609	Ag,As,Ba,Cd,Cr,Pb,Se
PB170754TB	PB170754TB	1	1646	Ag,As,Ba,Cd,Cr,Pb,Se
PB170755TB	PB170755TB	1	1651	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1655	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1659	Ag,As,Ba,Cd,Cr,Pb,Se