

LAB CHRONICLE

OrderID:	Q1956	OrderDate:	5/2/2025 3:14:35 PM
Client:	CDM Smith	Project:	Bergen Point Fueling System
Contact:	Marcie Ann Encinas	Location:	L31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1956-01	SB1-3-4	SOIL			05/01/25			05/02/25
			Mercury	7471B		05/05/25	05/05/25	
			Metals ICP-TAL	6010D		05/06/25	05/07/25	
Q1956-02	SB2-4-5	SOIL			05/02/25			05/02/25
			Mercury	7471B		05/05/25	05/05/25	
			Metals ICP-TAL	6010D		05/06/25	05/07/25	
Q1956-05	COMP1	TCLP			05/02/25			05/02/25
			TCLP ICP Metals	6010D		05/06/25	05/07/25	
			TCLP Mercury	7470A		05/06/25	05/07/25	
Q1956-06	SB91-3-4	SOIL			05/01/25			05/02/25
			Mercury	7471B		05/05/25	05/05/25	
			Metals ICP-TAL	6010D		05/06/25	05/07/25	
Q1956-07	FB-05022025	Water			05/02/25			05/02/25
			Mercury	7470A		05/05/25	05/05/25	
			Metals ICP-TAL	6010D		05/05/25	05/05/25	



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Hit Summary Sheet
SW-846

SDG No.:	Q1956	Order ID:	Q1956
Client:	CDM Smith	Project ID:	Bergen Point Fueling System

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP1								
Q1956-05	COMP1	TCLP	Barium	813		72.8	500	ug/L
Q1956-05	COMP1	TCLP	Lead	11.6	J	11.5	60.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/02/25
Project:	Bergen Point Fueling System	Date Received:	05/02/25
Client Sample ID:	COMP1	SDG No.:	Q1956
Lab Sample ID:	Q1956-05	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	05/06/25 12:30	05/07/25 14:53	SW6010	SW3050
7440-39-3	Barium	813		1	72.8	500	ug/L	05/06/25 12:30	05/07/25 14:53	SW6010	SW3050
7440-43-9	Cadmium	30.0	U	1	2.50	30.0	ug/L	05/06/25 12:30	05/07/25 14:53	SW6010	SW3050
7440-47-3	Chromium	50.0	U	1	10.6	50.0	ug/L	05/06/25 12:30	05/07/25 14:53	SW6010	SW3050
7439-92-1	Lead	11.6	J	1	11.5	60.0	ug/L	05/06/25 12:30	05/07/25 14:53	SW6010	SW3050
7439-97-6	Mercury	2.00	U	1	0.76	2.00	ug/L	05/06/25 13:30	05/07/25 09:55	SW7470A	
7782-49-2	Selenium	100	U	1	48.2	100	ug/L	05/06/25 12:30	05/07/25 14:53	SW6010	SW3050
7440-22-4	Silver	50.0	U	1	8.10	50.0	ug/L	05/06/25 12:30	05/07/25 14:53	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

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: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Mercury	3.68	4.0	92	90 - 110	CV	05/07/2025	09:22	LB135690

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956
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
CCV86	Mercury	5.03	5.0	101	90 - 110	CV	05/07/2025	09:27	LB135690
CCV87	Mercury	5.01	5.0	100	90 - 110	CV	05/07/2025	10:00	LB135690
CCV88	Mercury	5.01	5.0	100	90 - 110	CV	05/07/2025	10:22	LB135690



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Client:	<u>CDM Smith</u>	SDG No.:	<u>Q1956</u>				
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1956</u>	SAS No.:	<u>Q1956</u>
Initial Calibration Source:	<u>EPA</u>						
Continuing Calibration Source:	Inorganic Ventures						

Sample ID	Analyte	Result	True Value	%	Acceptance	M	Analysis Date	Analysis Time	Run Number
		ug/L		Recovery	Window (%R)				
ICV01	Arsenic	968	1000	97	90 - 110	P	05/07/2025	12:59	LB135699
	Barium	534	520	103	90 - 110	P	05/07/2025	12:59	LB135699
	Cadmium	501	510	98	90 - 110	P	05/07/2025	12:59	LB135699
	Chromium	503	520	97	90 - 110	P	05/07/2025	12:59	LB135699
	Lead	980	1000	98	90 - 110	P	05/07/2025	12:59	LB135699
	Selenium	996	1000	100	90 - 110	P	05/07/2025	12:59	LB135699
	Silver	231	250	93	90 - 110	P	05/07/2025	12:59	LB135699

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956
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	19.8	20.0	99	80 - 120	P	05/07/2025	13:05	LB135699
	Barium	86.9	100	87	80 - 120	P	05/07/2025	13:05	LB135699
	Cadmium	6.10	6.0	102	80 - 120	P	05/07/2025	13:05	LB135699
	Chromium	9.59	10.0	96	80 - 120	P	05/07/2025	13:05	LB135699
	Lead	12.8	12.0	106	80 - 120	P	05/07/2025	13:05	LB135699
	Selenium	18.3	20.0	91	80 - 120	P	05/07/2025	13:05	LB135699
	Silver	10.3	10.0	103	80 - 120	P	05/07/2025	13:05	LB135699

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q1956
Contract: CAMP02 Lab Code: CHEM Case No.: Q1956 SAS No.: Q1956
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	5080	5000	102	90 - 110	P	05/07/2025	13:39	LB135699
	Barium	9770	10000	98	90 - 110	P	05/07/2025	13:39	LB135699
	Cadmium	2570	2500	103	90 - 110	P	05/07/2025	13:39	LB135699
	Chromium	1050	1000	104	90 - 110	P	05/07/2025	13:39	LB135699
	Lead	5150	5000	103	90 - 110	P	05/07/2025	13:39	LB135699
	Selenium	5050	5000	101	90 - 110	P	05/07/2025	13:39	LB135699
	Silver	1280	1250	102	90 - 110	P	05/07/2025	13:39	LB135699
CCV02	Arsenic	5050	5000	101	90 - 110	P	05/07/2025	14:35	LB135699
	Barium	10000	10000	100	90 - 110	P	05/07/2025	14:35	LB135699
	Cadmium	2490	2500	100	90 - 110	P	05/07/2025	14:35	LB135699
	Chromium	1020	1000	102	90 - 110	P	05/07/2025	14:35	LB135699
	Lead	5030	5000	101	90 - 110	P	05/07/2025	14:35	LB135699
	Selenium	5040	5000	101	90 - 110	P	05/07/2025	14:35	LB135699
	Silver	1270	1250	101	90 - 110	P	05/07/2025	14:35	LB135699
CCV03	Arsenic	4880	5000	98	90 - 110	P	05/07/2025	15:23	LB135699
	Barium	9500	10000	95	90 - 110	P	05/07/2025	15:23	LB135699
	Cadmium	2420	2500	97	90 - 110	P	05/07/2025	15:23	LB135699
	Chromium	993	1000	99	90 - 110	P	05/07/2025	15:23	LB135699
	Lead	4870	5000	97	90 - 110	P	05/07/2025	15:23	LB135699
	Selenium	4900	5000	98	90 - 110	P	05/07/2025	15:23	LB135699
	Silver	1230	1250	98	90 - 110	P	05/07/2025	15:23	LB135699
CCV04	Arsenic	4850	5000	97	90 - 110	P	05/07/2025	16:05	LB135699
	Barium	9490	10000	95	90 - 110	P	05/07/2025	16:05	LB135699
	Cadmium	2400	2500	96	90 - 110	P	05/07/2025	16:05	LB135699
	Chromium	968	1000	97	90 - 110	P	05/07/2025	16:05	LB135699
	Lead	4840	5000	97	90 - 110	P	05/07/2025	16:05	LB135699
	Selenium	4860	5000	97	90 - 110	P	05/07/2025	16:05	LB135699
	Silver	1180	1250	95	90 - 110	P	05/07/2025	16:05	LB135699
CCV05	Arsenic	5140	5000	103	90 - 110	P	05/07/2025	16:47	LB135699
	Barium	9560	10000	96	90 - 110	P	05/07/2025	16:47	LB135699
	Cadmium	2360	2500	95	90 - 110	P	05/07/2025	16:47	LB135699
	Chromium	965	1000	96	90 - 110	P	05/07/2025	16:47	LB135699
	Lead	4800	5000	96	90 - 110	P	05/07/2025	16:47	LB135699
	Selenium	5200	5000	104	90 - 110	P	05/07/2025	16:47	LB135699

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956
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	1220	1250	98	90 - 110	P	05/07/2025	16:47	LB135699



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Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956
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	0.20	0.2	100	40 - 160	CV	05/07/2025	09:31	LB135690
CRI01	Arsenic	19.7	20.0	98	40 - 160	P	05/07/2025	13:16	LB135699
	Barium	88.3	100	88	40 - 160	P	05/07/2025	13:16	LB135699
	Cadmium	6.09	6.0	102	40 - 160	P	05/07/2025	13:16	LB135699
	Chromium	9.49	10.0	95	40 - 160	P	05/07/2025	13:16	LB135699
	Lead	13.4	12.0	112	40 - 160	P	05/07/2025	13:16	LB135699
	Selenium	16.5	20.0	82	40 - 160	P	05/07/2025	13:16	LB135699
	Silver	10.2	10.0	102	40 - 160	P	05/07/2025	13:16	LB135699



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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Mercury	0.20	+/-0.20	U	0.20	CV	05/07/2025	09:25	LB135690

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB86	Mercury	0.20	+/-0.20	U	0.20	CV	05/07/2025	09:29	LB135690
CCB87	Mercury	0.20	+/-0.20	U	0.20	CV	05/07/2025	10:02	LB135690
CCB88	Mercury	0.20	+/-0.20	U	0.20	CV	05/07/2025	10:25	LB135690

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956

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	05/07/2025	13:09	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	13:09	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	13:09	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	13:09	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	13:09	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	13:09	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	13:09	LB135699

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q1956							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q1956	SAS No.: Q1956						
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	05/07/2025	13:43	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	13:43	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	13:43	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	13:43	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	13:43	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	13:43	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	13:43	LB135699
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	14:39	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	14:39	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	14:39	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	14:39	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	14:39	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	14:39	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	14:39	LB135699
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	15:27	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	15:27	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	15:27	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	15:27	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	15:27	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	15:27	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	15:27	LB135699
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	16:09	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	16:09	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	16:09	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	16:09	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	16:09	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	16:09	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	16:09	LB135699
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	05/07/2025	16:52	LB135699
	Barium	100	+/-100	U	100	P	05/07/2025	16:52	LB135699
	Cadmium	6.00	+/-6.00	U	6.00	P	05/07/2025	16:52	LB135699
	Chromium	10.0	+/-10.0	U	10.0	P	05/07/2025	16:52	LB135699
	Lead	12.0	+/-12.0	U	12.0	P	05/07/2025	16:52	LB135699
	Selenium	20.0	+/-20.0	U	20.0	P	05/07/2025	16:52	LB135699
	Silver	10.0	+/-10.0	U	10.0	P	05/07/2025	16:52	LB135699

Metals
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PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q1956

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167851TB		WATER		Batch Number:	PB167883		Prep Date:	05/06/2025	
	Mercury	2.00	<2.00	U	2.00	CV	05/07/2025	10:13	LB135690
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167883BL		WATER		Batch Number:	PB167883		Prep Date:	05/06/2025	
	Mercury	0.20	<0.20	U	0.20	CV	05/07/2025	10:16	LB135690

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q1956

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167851TB		WATER		Batch Number:	PB167882		Prep Date:	05/06/2025	
	Arsenic	100	<100	U	100	P	05/07/2025	14:26	LB135699
	Barium	500	<500	U	500	P	05/07/2025	14:26	LB135699
	Cadmium	30.0	<30.0	U	30.0	P	05/07/2025	14:26	LB135699
	Chromium	50.0	<50.0	U	50.0	P	05/07/2025	14:26	LB135699
	Lead	60.0	<60.0	U	60.0	P	05/07/2025	14:26	LB135699
	Selenium	100	<100	U	100	P	05/07/2025	14:26	LB135699
	Silver	50.0	<50.0	U	50.0	P	05/07/2025	14:26	LB135699
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167882BL		WATER		Batch Number:	PB167882		Prep Date:	05/06/2025	
	Arsenic	100	<100	U	100	P	05/07/2025	13:47	LB135699
	Barium	500	<500	U	500	P	05/07/2025	13:47	LB135699
	Cadmium	30.0	<30.0	U	30.0	P	05/07/2025	13:47	LB135699
	Chromium	50.0	<50.0	U	50.0	P	05/07/2025	13:47	LB135699
	Lead	60.0	<60.0	U	60.0	P	05/07/2025	13:47	LB135699
	Selenium	100	<100	U	100	P	05/07/2025	13:47	LB135699
	Silver	50.0	<50.0	U	50.0	P	05/07/2025	13:47	LB135699

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>CDM Smith</u>	SDG No.: <u>Q1956</u>
Contract: <u>CAMP02</u>	Lab Code: <u>CHEM</u>
ICS Source: <u>EPA</u>	Case No.: <u>Q1956</u>
	SAS No.: <u>Q1956</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	-1.60			-20	20	05/07/2025	13:21	LB135699
	Barium	-1.29	6.0	22	-94	106	05/07/2025	13:21	LB135699
	Cadmium	-2.63	1.0	263	-5	7	05/07/2025	13:21	LB135699
	Chromium	54.1	52.0	104	42	62	05/07/2025	13:21	LB135699
	Lead	-2.88			-12	12	05/07/2025	13:21	LB135699
	Selenium	-9.82			-20	20	05/07/2025	13:21	LB135699
	Silver	1.08			-10	10	05/07/2025	13:21	LB135699
ICSAB01	Arsenic	117	104	112	88.4	120	05/07/2025	13:25	LB135699
	Barium	502	537	94	437	637	05/07/2025	13:25	LB135699
	Cadmium	1070	972	110	826	1120	05/07/2025	13:25	LB135699
	Chromium	586	542	108	460	624	05/07/2025	13:25	LB135699
	Lead	55.5	49.0	113	37	61	05/07/2025	13:25	LB135699
	Selenium	41.2	46.0	90	26	66	05/07/2025	13:25	LB135699
	Silver	197	201	98	170	232	05/07/2025	13:25	LB135699



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith	level: low	sdg no.: Q1956
contract: CAMP02	lab code: CHEM	case no.: Q1956 sas no.: Q1956
matrix: Water	sample id: Q1960-03	client id: 72-11933MS
Percent Solids for Sample: NA	Spiked ID: Q1960-03MS	Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3970		100	U	4000	99		P
Barium	ug/L	75 - 125	2160		1320		1000	84		P
Cadmium	ug/L	75 - 125	998		5.41	J	1000	99		P
Chromium	ug/L	75 - 125	1950		50.0	U	2000	98		P
Lead	ug/L	75 - 125	5290		601		5000	94		P
Mercury	ug/L	75 - 125	41.3		2.00	U	40.0	103		CV
Selenium	ug/L	75 - 125	9840		100	U	10000	98		P
Silver	ug/L	75 - 125	364		50.0	U	380	96		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>CDM Smith</u>	level: <u>low</u>	sdg no.: <u>Q1956</u>
contract: <u>CAMP02</u>	lab code: <u>CHEM</u>	case no.: <u>Q1956</u> sas no.: <u>Q1956</u>
matrix: <u>Water</u>	sample id: <u>Q1960-03</u>	client id: <u>72-11933MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1960-03MSD</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	3820		100	U	4000	96		P
Barium	ug/L	75 - 125	2150		1320		1000	83		P
Cadmium	ug/L	75 - 125	957		5.41	J	1000	95		P
Chromium	ug/L	75 - 125	1910		50.0	U	2000	96		P
Lead	ug/L	75 - 125	5090		601		5000	90		P
Mercury	ug/L	75 - 125	38.1		2.00	U	40.0	95		CV
Selenium	ug/L	75 - 125	9430		100	U	10000	94		P
Silver	ug/L	75 - 125	358		50.0	U	380	94		P

Metals
- 5b -

Client: CDM Smith

SDG No.: Q1956

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1956

SAS No.: Q1956

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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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956
Matrix: Water **Sample ID:** Q1960-03 **Client ID:** 72-11933DUP
Percent Solids for Sample: NA **Duplicate ID** Q1960-03DUP **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	1320		1140		15		P
Cadmium	ug/L	20	5.41	J	4.13	J	27		P
Chromium	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	601		535		12		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

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956
Matrix: Water **Sample ID:** Q1960-03MS **Client ID:** 72-11933MSD
Percent Solids for Sample: NA **Duplicate ID** Q1960-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3970		3820		4		P
Barium	ug/L	20	2160		2150		0		P
Cadmium	ug/L	20	998		957		4		P
Chromium	ug/L	20	1950		1910		2		P
Lead	ug/L	20	5290		5090		4		P
Mercury	ug/L	20	41.3		38.1		8		CV
Selenium	ug/L	20	9840		9430		4		P
Silver	ug/L	20	364		358		2		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167882BS							
Arsenic	ug/L	4000	3680		92	80 - 120	P
Barium	ug/L	1000	828		83	80 - 120	P
Cadmium	ug/L	1000	940		94	80 - 120	P
Chromium	ug/L	2000	1900		95	80 - 120	P
Lead	ug/L	5000	4630		93	80 - 120	P
Selenium	ug/L	10000	9090		91	80 - 120	P
Silver	ug/L	380	349		92	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167883BS Mercury	ug/L	4.0	4.14		104	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

72-11933L

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM **Lb No.:** lb135699

Lab Sample ID : Q1960-03L **SDG No.:** Q1956

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Arsenic	100	U	500	U			P
Barium	1320		1160	J	12		P
Cadmium	5.41	J	150	U	100.0		P
Chromium	50.0	U	250	U			P
Lead	601		614		2		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: CDM Smith

SDG No.: Q1956

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1956

SAS No.: Q1956

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: CDM Smith

SDG No.: Q1956

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1956

SAS No.: Q1956

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: CDM Smith

SDG No.: Q1956

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1956

SAS No.: Q1956

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: CDM Smith **SDG No.:** Q1956
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1956 **SAS No.:** Q1956
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: CDM Smith

SDG No.: Q1956

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1956

SAS No.: Q1956

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>CDM Smith</u>	SDG No.:	<u>Q1956</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1956</u>
		SAS No.:	<u>Q1956</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167882							
PB167851TB	PB167851TB	MB	WATER	05/06/2025	5.0	25.0	
PB167882BL	PB167882BL	MB	WATER	05/06/2025	5.0	25.0	
PB167882BS	PB167882BS	LCS	WATER	05/06/2025	5.0	25.0	
Q1956-05	COMP1	SAM	WATER	05/06/2025	5.0	25.0	
Q1960-03DUP	72-11933DUP	DUP	WATER	05/06/2025	5.0	25.0	
Q1960-03MS	72-11933MS	MS	WATER	05/06/2025	5.0	25.0	
Q1960-03MSD	72-11933MSD	MSD	WATER	05/06/2025	5.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q1956</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1956</u>
		SAS No.:	<u>Q1956</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167883							
PB167851TB	PB167851TB	MB	WATER	05/06/2025	3.0	30.0	
PB167883BL	PB167883BL	MB	WATER	05/06/2025	30.0	30.0	
PB167883BS	PB167883BS	LCS	WATER	05/06/2025	30.0	30.0	
Q1956-05	COMP1	SAM	WATER	05/06/2025	3.0	30.0	
Q1960-03DUP	72-11933DUP	DUP	WATER	05/06/2025	3.0	30.0	
Q1960-03MS	72-11933MS	MS	WATER	05/06/2025	3.0	30.0	
Q1960-03MSD	72-11933MSD	MSD	WATER	05/06/2025	3.0	30.0	

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q1956 **Sas no.:** Q1956 **Sdg no.:** Q1956

Instrument id number: **Method:** **Run number:** LB135690

Start date: 05/07/2025 **End date:** 05/07/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0905	HG
S0.2	S0.2	1	0907	HG
S2.5	S2.5	1	0910	HG
S5	S5	1	0915	HG
S7.5	S7.5	1	0917	HG
S10	S10	1	0919	HG
ICV01	ICV01	1	0922	HG
ICB01	ICB01	1	0925	HG
CCV86	CCV86	1	0927	HG
CCB86	CCB86	1	0929	HG
CRA	CRA	1	0931	HG
PB167883BS	PB167883BS	1	0946	HG
Q1956-05	COMP1	1	0955	HG
CCV87	CCV87	1	1000	HG
CCB87	CCB87	1	1002	HG
Q1960-03DUP	72-11933DUP	1	1006	HG
Q1960-03MS	72-11933MS	1	1009	HG
Q1960-03MSD	72-11933MSD	1	1011	HG
PB167851TB	PB167851TB	1	1013	HG
PB167883BL	PB167883BL	1	1016	HG
Q1960-03L	72-11933L	5	1018	HG
CCV88	CCV88	1	1022	HG
CCB88	CCB88	1	1025	HG

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q1956 **Sas no.:** Q1956 **Sdg no.:** Q1956

Instrument id number: **Method:** **Run number:** LB135699

Start date: 05/07/2025 **End date:** 05/07/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1234	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1238	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	1255	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1259	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1305	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1309	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1316	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1321	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1325	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1339	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1343	Ag,As,Ba,Cd,Cr,Pb,Se
PB167882BL	PB167882BL	1	1347	Ag,As,Ba,Cd,Cr,Pb,Se
PB167882BS	PB167882BS	1	1358	Ag,As,Ba,Cd,Cr,Pb,Se
PB167851TB	PB167851TB	1	1426	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1435	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1439	Ag,As,Ba,Cd,Cr,Pb,Se
Q1956-05	COMP1	1	1453	Ag,As,Ba,Cd,Cr,Pb,Se
Q1960-03DUP	72-11933DUP	1	1506	Ag,As,Ba,Cd,Cr,Pb,Se
Q1960-03L	72-11933L	5	1510	Ag,As,Ba,Cd,Cr,Pb,Se
Q1960-03MS	72-11933MS	1	1515	Ag,As,Ba,Cd,Cr,Pb,Se
Q1960-03MSD	72-11933MSD	1	1519	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1523	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1527	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1605	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1609	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1647	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1652	Ag,As,Ba,Cd,Cr,Pb,Se