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LAB CHRONICLE

OrderID:	Q2072	**OrderDate:**	5/16/2025 2:45:18 PM
Client:	First Environment, Inc.	**Project:**	Somerset Hills Memorial Park
Contact:	Ken Cwieka	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2072-01	**MW-2**	**Water**			**05/16/25**			**05/16/25**
			Metals Group3	6010D		05/20/25	05/28/25	
Q2072-02	**MW-3**	**Water**			**05/16/25**			**05/16/25**
			Metals Group3	6010D		05/20/25	05/28/25	
Q2072-03	**MW-4**	**Water**			**05/16/25**			**05/16/25**
			Metals Group3	6010D		05/20/25	05/28/25	
Q2072-04	**MW-6**	**Water**			**05/16/25**			**05/16/25**
			Metals Group3	6010D		05/20/25	05/28/25	
Q2072-05	**FB**	**Water**			**05/16/25**			**05/16/25**
			Metals Group3	6010D		05/20/25	05/28/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2072 **Order ID:** Q2072

Client: First Environment, Inc. **Project ID:** Somerset Hills Memorial Park

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-2								
Q2072-01	MW-2	Water	Iron	267		11.7	50.0	ug/L
Q2072-01	MW-2	Water	Sodium	40100		434	1000	ug/L
Client ID : MW-3								
Q2072-02	MW-3	Water	Iron	15200		11.7	50.0	ug/L
Q2072-02	MW-3	Water	Sodium	36200		434	1000	ug/L
Client ID : MW-4								
Q2072-03	MW-4	Water	Iron	1400		11.7	50.0	ug/L
Q2072-03	MW-4	Water	Sodium	30400		434	1000	ug/L
Client ID : MW-6								
Q2072-04	MW-6	Water	Iron	475		11.7	50.0	ug/L
Q2072-04	MW-6	Water	Sodium	14100		434	1000	ug/L
Client ID : FB								
Q2072-05	FB	Water	Iron	13.5	J	11.7	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	05/16/25
Project:	Somerset Hills Memorial Park	Date Received:	05/16/25
Client Sample ID:	MW-2	SDG No.:	Q2072
Lab Sample ID:	Q2072-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	267		1	11.7	50.0	ug/L	05/20/25 10:05	05/28/25 20:10	6010D	SW3010
7440-23-5	Sodium	40100		1	434	1000	ug/L	05/20/25 10:05	05/28/25 20:10	6010D	SW3010

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

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = 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

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	05/16/25
Project:	Somerset Hills Memorial Park	Date Received:	05/16/25
Client Sample ID:	MW-3	SDG No.:	Q2072
Lab Sample ID:	Q2072-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	15200		1	11.7	50.0	ug/L	05/20/25 10:05	05/28/25 20:14	6010D	SW3010
7440-23-5	Sodium	36200		1	434	1000	ug/L	05/20/25 10:05	05/28/25 20:14	6010D	SW3010

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

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = 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

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	05/16/25
Project:	Somerset Hills Memorial Park	Date Received:	05/16/25
Client Sample ID:	MW-4	SDG No.:	Q2072
Lab Sample ID:	Q2072-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	1400		1	11.7	50.0	ug/L	05/20/25 10:05	05/28/25 20:18	6010D	SW3010
7440-23-5	Sodium	30400		1	434	1000	ug/L	05/20/25 10:05	05/28/25 20:18	6010D	SW3010

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

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = 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

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	05/16/25
Project:	Somerset Hills Memorial Park	Date Received:	05/16/25
Client Sample ID:	MW-6	SDG No.:	Q2072
Lab Sample ID:	Q2072-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	475		1	11.7	50.0	ug/L	05/20/25 10:05	05/28/25 20:31	6010D	SW3010
7440-23-5	Sodium	14100		1	434	1000	ug/L	05/20/25 10:05	05/28/25 20:31	6010D	SW3010

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

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = 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

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	05/16/25
Project:	Somerset Hills Memorial Park	Date Received:	05/16/25
Client Sample ID:	FB	SDG No.:	Q2072
Lab Sample ID:	Q2072-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	13.5	J	1	11.7	50.0	ug/L	05/20/25 10:05	05/28/25 20:55	6010D	SW3010
7440-23-5	Sodium	434	U	1	434	1000	ug/L	05/20/25 10:05	05/28/25 20:55	6010D	SW3010

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

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

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N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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	Iron	10400	10000	104	90 - 110	P	05/21/2025	13:19	LB135868
	Sodium	10100	10000	101	90 - 110	P	05/21/2025	13:19	LB135868

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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	Iron	105	100	105	80 - 120	P	05/21/2025	13:29	LB135868
	Sodium	1900	2000	95	80 - 120	P	05/21/2025	13:29	LB135868

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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	Iron	5060	5000	101	90 - 110	P	05/21/2025	14:09	LB135868
	Sodium	25300	25000	101	90 - 110	P	05/21/2025	14:09	LB135868
CCV02	Iron	4930	5000	99	90 - 110	P	05/21/2025	15:00	LB135868
	Sodium	24000	25000	96	90 - 110	P	05/21/2025	15:00	LB135868
CCV03	Iron	4860	5000	97	90 - 110	P	05/21/2025	16:02	LB135868
	Sodium	23600	25000	94	90 - 110	P	05/21/2025	16:02	LB135868
CCV04	Iron	4790	5000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Sodium	23500	25000	94	90 - 110	P	05/21/2025	17:27	LB135868
CCV05	Iron	4870	5000	97	90 - 110	P	05/21/2025	18:16	LB135868
	Sodium	23400	25000	94	90 - 110	P	05/21/2025	18:16	LB135868
CCV06	Iron	4970	5000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Sodium	23600	25000	95	90 - 110	P	05/21/2025	19:08	LB135868
CCV07	Iron	4920	5000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Sodium	23600	25000	94	90 - 110	P	05/21/2025	19:57	LB135868
CCV08	Iron	4720	5000	94	90 - 110	P	05/21/2025	20:43	LB135868
	Sodium	22600	25000	90	90 - 110	P	05/21/2025	20:43	LB135868
CCV09	Iron	4750	5000	95	90 - 110	P	05/21/2025	21:29	LB135868
	Sodium	22400	25000	90	90 - 110	P	05/21/2025	21:29	LB135868
CCV10	Iron	4730	5000	95	90 - 110	P	05/21/2025	21:50	LB135868
	Sodium	22500	25000	90	90 - 110	P	05/21/2025	21:50	LB135868

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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	Iron	9400	10000	94	90 - 110	P	05/28/2025	12:37	LB135935
	Sodium	9550	10000	96	90 - 110	P	05/28/2025	12:37	LB135935

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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	Iron	100	100	100	80 - 120	P	05/28/2025	12:41	LB135935
	Sodium	1630	2000	81	80 - 120	P	05/28/2025	12:41	LB135935

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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	Iron	4760	5000	95	90 - 110	P	05/28/2025	13:21	LB135935
	Sodium	23800	25000	95	90 - 110	P	05/28/2025	13:21	LB135935
CCV02	Iron	5050	5000	101	90 - 110	P	05/28/2025	14:06	LB135935
	Sodium	25600	25000	103	90 - 110	P	05/28/2025	14:06	LB135935
CCV03	Iron	4680	5000	94	90 - 110	P	05/28/2025	14:52	LB135935
	Sodium	23600	25000	94	90 - 110	P	05/28/2025	14:52	LB135935
CCV04	Iron	5300	5000	106	90 - 110	P	05/28/2025	15:45	LB135935
	Sodium	26500	25000	106	90 - 110	P	05/28/2025	15:45	LB135935
CCV05	Iron	5000	5000	100	90 - 110	P	05/28/2025	16:38	LB135935
	Sodium	25100	25000	100	90 - 110	P	05/28/2025	16:38	LB135935
CCV06	Iron	5020	5000	100	90 - 110	P	05/28/2025	18:01	LB135935
	Sodium	24200	25000	97	90 - 110	P	05/28/2025	18:01	LB135935
CCV07	Iron	5290	5000	106	90 - 110	P	05/28/2025	18:51	LB135935
	Sodium	26400	25000	106	90 - 110	P	05/28/2025	18:51	LB135935
CCV08	Iron	5270	5000	106	90 - 110	P	05/28/2025	19:37	LB135935
	Sodium	26600	25000	106	90 - 110	P	05/28/2025	19:37	LB135935
CCV09	Iron	5210	5000	104	90 - 110	P	05/28/2025	20:22	LB135935
	Sodium	26100	25000	104	90 - 110	P	05/28/2025	20:22	LB135935
CCV10	Iron	5060	5000	101	90 - 110	P	05/28/2025	21:09	LB135935
	Sodium	24700	25000	99	90 - 110	P	05/28/2025	21:09	LB135935
CCV11	Iron	5000	5000	100	90 - 110	P	05/28/2025	22:15	LB135935
	Sodium	24500	25000	98	90 - 110	P	05/28/2025	22:15	LB135935

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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	Iron	106	100	106	65 - 135	P	05/21/2025	13:43	LB135868
	Sodium	1940	2000	97	65 - 135	P	05/21/2025	13:43	LB135868
CRI01	Iron	93.8	100	94	65 - 135	P	05/28/2025	12:53	LB135935
	Sodium	1580	2000	79	65 - 135	P	05/28/2025	12:53	LB135935

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	26.9	+/-100	J	100	P	05/21/2025	13:36	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	100	+/-100	U	100	P	05/21/2025	14:13	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
CCB02	Iron	100	+/-100	U	100	P	05/21/2025	15:04	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
CCB03	Iron	100	+/-100	U	100	P	05/21/2025	16:25	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
CCB04	Iron	100	+/-100	U	100	P	05/21/2025	17:32	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	17:32	LB135868
CCB05	Iron	100	+/-100	U	100	P	05/21/2025	18:20	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
CCB06	Iron	100	+/-100	U	100	P	05/21/2025	19:16	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868
CCB07	Iron	100	+/-100	U	100	P	05/21/2025	20:02	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
CCB08	Iron	100	+/-100	U	100	P	05/21/2025	20:48	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
CCB09	Iron	100	+/-100	U	100	P	05/21/2025	21:34	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868
CCB10	Iron	100	+/-100	U	100	P	05/21/2025	21:54	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	44.9	+/-100	J	100	P	05/28/2025	12:45	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	12:45	LB135935

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	100	+/-100	U	100	P	05/28/2025	13:26	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	13:26	LB135935
CCB02	Iron	100	+/-100	U	100	P	05/28/2025	14:10	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	14:10	LB135935
CCB03	Iron	100	+/-100	U	100	P	05/28/2025	14:56	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	14:56	LB135935
CCB04	Iron	100	+/-100	U	100	P	05/28/2025	15:49	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	15:49	LB135935
CCB05	Iron	100	+/-100	U	100	P	05/28/2025	16:43	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	16:43	LB135935
CCB06	Iron	100	+/-100	U	100	P	05/28/2025	18:05	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	18:05	LB135935
CCB07	Iron	32.2	+/-100	J	100	P	05/28/2025	18:55	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	18:55	LB135935
CCB08	Iron	100	+/-100	U	100	P	05/28/2025	19:41	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	19:41	LB135935
CCB09	Iron	100	+/-100	U	100	P	05/28/2025	20:26	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	20:26	LB135935
CCB10	Iron	100	+/-100	U	100	P	05/28/2025	21:23	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	21:23	LB135935
CCB11	Iron	100	+/-100	U	100	P	05/28/2025	22:19	LB135935
	Sodium	2000	+/-2000	U	2000	P	05/28/2025	22:19	LB135935

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Metals
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PREPARATION BLANK SUMMARY

Client: First Environment, Inc. **SDG No.:** Q2072

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168086BL		**WATER**		**Batch Number:**	**PB168086**		**Prep Date:**	**05/20/2025**	
	Iron	50.0	<50.0	U	50.0	P	05/21/2025	17:22	LB135868
	Sodium	1000	<1000	U	1000	P	05/21/2025	17:22	LB135868

Alliance TECHNICAL GROUP
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Metals
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INTERFERENCE CHECK SAMPLE

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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	Iron	91300	101000	90	85600	116500	05/21/2025	13:52	LB135868
	Sodium	4.13			0	0	05/21/2025	13:52	LB135868
ICSAB01	Iron	91200	99300	92	84400	114500	05/21/2025	13:56	LB135868
	Sodium	-38.7			0	0	05/21/2025	13:56	LB135868
ICSA01	Iron	109000	101000	108	85600	116500	05/28/2025	13:03	LB135935
	Sodium	8.77			0	0	05/28/2025	13:03	LB135935
ICSAB01	Iron	93500	99300	94	84400	114500	05/28/2025	13:08	LB135935
	Sodium	-21.6			0	0	05/28/2025	13:08	LB135935

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: First Environment, Inc. **level:** low **sdg no.:** Q2072

contract: FIRS02 **lab code:** CHEM **case no.:** Q2072 **sas no.:** Q2072

matrix: Water **sample id:** Q2072-04 **client id:** MW-6MS

Percent Solids for Sample: NA **Spiked ID:** Q2072-04MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	2170		475		1500	113		P
Sodium	ug/L	75 - 125	16200		14100		1500	139		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: First Environment, Inc. **level:** low **sdg no.:** Q2072

contract: FIRS02 **lab code:** CHEM **case no.:** Q2072 **sas no.:** Q2072

matrix: Water **sample id:** Q2072-04 **client id:** MW-6MSD

Percent Solids for Sample: NA **Spiked ID:** Q2072-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	2210		475		1500	116		P
Sodium	ug/L	75 - 125	17000		14100		1500	191		P

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Metals
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Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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: First Environment, Inc. **Level:** LOW **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

Matrix: Water **Sample ID:** Q2072-04 **Client ID:** MW-6DUP

Percent Solids for Sample: NA **Duplicate ID** Q2072-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	475		469		1		P
Sodium	ug/L	20	14100		14400		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: First Environment, Inc. **Level:** LOW **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

Matrix: Water **Sample ID:** Q2072-04MS **Client ID:** MW-6MSD

Percent Solids for Sample: NA **Duplicate ID** Q2072-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	2170		2210		2		P
Sodium	ug/L	20	16200		17000		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168086BS							
Iron	ug/L	1500	1360		91	80 - 120	P
Sodium	ug/L	1500	1300		87	80 - 120	P

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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-6L

Lab Name: Chemtech Consulting Group **Contract:** FIRS02

Lab Code: CHEM **Lb No.:** lb135935 **Lab Sample ID :** Q2072-04L **SDG No.:** Q2072

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	475		526		11		P
Sodium	14100		12700		10		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Case No.:** Q2072 **SAS No.:** Q2072

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
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: First Environment, Inc. **SDG No.:** Q2072

Contract: FIRS02 **Lab Code:** CHEM **Method:**

Case No.: Q2072 **SAS No.:** Q2072

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168086**						
PB168086BL	PB168086BL	MB	WATER	05/20/2025	50.0	25.0	
PB168086BS	PB168086BS	LCS	WATER	05/20/2025	50.0	25.0	
Q2072-01	MW-2	SAM	WATER	05/20/2025	50.0	25.0	
Q2072-02	MW-3	SAM	WATER	05/20/2025	50.0	25.0	
Q2072-03	MW-4	SAM	WATER	05/20/2025	50.0	25.0	
Q2072-04	MW-6	SAM	WATER	05/20/2025	50.0	25.0	
Q2072-04DUP	MW-6DUP	DUP	WATER	05/20/2025	50.0	25.0	
Q2072-04MS	MW-6MS	MS	WATER	05/20/2025	50.0	25.0	
Q2072-04MSD	MW-6MSD	MSD	WATER	05/20/2025	50.0	25.0	
Q2072-05	FB	SAM	WATER	05/20/2025	50.0	25.0	

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ANALYSIS RUN LOG

Client: First Environment, Inc. **Contract:** FIRS02

Lab code: CHEM **Case no.:** Q2072 **Sas no.:** Q2072 **Sdg no.:** Q2072

Instrument id number: **Method:** **Run number:** LB135868

Start date: 05/21/2025 **End date:** 05/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1205	Fe,Na
S1	S1	1	1209	Fe,Na
S2	S2	1	1213	Fe,Na
S3	S3	1	1217	Fe,Na
S4	S4	1	1222	Fe,Na
S5	S5	1	1226	Fe,Na
ICV01	ICV01	1	1319	Fe,Na
LLICV01	LLICV01	1	1329	Fe,Na
ICB01	ICB01	1	1336	Fe,Na
CRI01	CRI01	1	1343	Fe,Na
ICSA01	ICSA01	1	1352	Fe,Na
ICSAB01	ICSAB01	1	1356	Fe,Na
CCV01	CCV01	1	1409	Fe,Na
CCB01	CCB01	1	1413	Fe,Na
CCV02	CCV02	1	1500	Fe,Na
CCB02	CCB02	1	1504	Fe,Na
CCV03	CCV03	1	1602	Fe,Na
CCB03	CCB03	1	1625	Fe,Na
PB168086BL	PB168086BL	1	1722	Fe,Na
CCV04	CCV04	1	1727	Fe,Na
CCB04	CCB04	1	1732	Fe,Na
PB168086BS	PB168086BS	1	1737	Fe,Na
CCV05	CCV05	1	1816	Fe,Na
CCB05	CCB05	1	1820	Fe,Na
CCV06	CCV06	1	1908	Fe,Na
CCB06	CCB06	1	1916	Fe,Na
CCV07	CCV07	1	1957	Fe,Na
CCB07	CCB07	1	2002	Fe,Na
CCV08	CCV08	1	2043	Fe,Na
CCB08	CCB08	1	2048	Fe,Na
CCV09	CCV09	1	2129	Fe,Na
CCB09	CCB09	1	2134	Fe,Na
CCV10	CCV10	1	2150	Fe,Na
CCB10	CCB10	1	2154	Fe,Na

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ANALYSIS RUN LOG

Client: First Environment, Inc. **Contract:** FIRS02

Lab code: CHEM **Case no.:** Q2072 **Sas no.:** Q2072 **Sdg no.:** Q2072

Instrument id number: **Method:** **Run number:** LB135935

Start date: 05/28/2025 **End date:** 05/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1159	Fe,Na
S1	S1	1	1203	Fe,Na
S2	S2	1	1207	Fe,Na
S3	S3	1	1211	Fe,Na
S4	S4	1	1216	Fe,Na
S5	S5	1	1220	Fe,Na
ICV01	ICV01	1	1237	Fe,Na
LLICV01	LLICV01	1	1241	Fe,Na
ICB01	ICB01	1	1245	Fe,Na
CRI01	CRI01	1	1253	Fe,Na
ICSA01	ICSA01	1	1303	Fe,Na
ICSAB01	ICSAB01	1	1308	Fe,Na
CCV01	CCV01	1	1321	Fe,Na
CCB01	CCB01	1	1326	Fe,Na
CCV02	CCV02	1	1406	Fe,Na
CCB02	CCB02	1	1410	Fe,Na
CCV03	CCV03	1	1452	Fe,Na
CCB03	CCB03	1	1456	Fe,Na
CCV04	CCV04	1	1545	Fe,Na
CCB04	CCB04	1	1549	Fe,Na
CCV05	CCV05	1	1638	Fe,Na
CCB05	CCB05	1	1643	Fe,Na
CCV06	CCV06	1	1801	Fe,Na
CCB06	CCB06	1	1805	Fe,Na
CCV07	CCV07	1	1851	Fe,Na
CCB07	CCB07	1	1855	Fe,Na
CCV08	CCV08	1	1937	Fe,Na
CCB08	CCB08	1	1941	Fe,Na
Q2072-01	MW-2	1	2010	Fe,Na
Q2072-02	MW-3	1	2014	Fe,Na
Q2072-03	MW-4	1	2018	Fe,Na
CCV09	CCV09	1	2022	Fe,Na
CCB09	CCB09	1	2026	Fe,Na
Q2072-04	MW-6	1	2031	Fe,Na
Q2072-04DUP	MW-6DUP	1	2035	Fe,Na
Q2072-04L	MW-6L	5	2039	Fe,Na
Q2072-04MS	MW-6MS	1	2044	Fe,Na
Q2072-04MSD	MW-6MSD	1	2047	Fe,Na
Q2072-05	FB	1	2055	Fe,Na
CCV10	CCV10	1	2109	Fe,Na
CCB10	CCB10	1	2123	Fe,Na

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ANALYSIS RUN LOG

Client: First Environment, Inc. **Contract:** FIRS02

Lab code: CHEM **Case no.:** Q2072 **Sas no.:** Q2072 **Sdg no.:** Q2072

Instrument id number: **Method:** **Run number:** LB135935

Start date: 05/28/2025 **End date:** 05/28/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV11	CCV11	1	2215	Fe,Na
CCB11	CCB11	1	2219	Fe,Na