The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Fulcrum Energy Operating

GWA_FEO_REU_1_23H2

FID:757002 Reg:609 Freq.:2SUB

SGS Job Number: DA58911

Sampling Date: 09/26/23

Report to:

Fulcrum Energy Operating
277 JCR 28
Coalmont, CO 80434
tayna.cude@absarokasolutions.com

ATTN: Tayna Cude

Total number of pages in report: **41**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Eric Hoffman

Client Service contact: Parna Payandeh 303-425-6021
Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

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SGS North America Inc.

Sample Summary

Fulcrum Energy Operating

Job No: DA58911

GWA_FEO_REU_1_23H2
Project No: FID:757002 Reg:609 Freq.:2SUB

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
DA58911-1	09/26/23	12:39	EF	09/27/23	AQ	Ground Water	BW_VALKENBURG_91638 SENE_23_6N_81W
DA58911-1A	09/26/23	12:39	EF	09/27/23	AQ	Ground Water	BW_VALKENBURG_91638 SENE_23_6N_81W
DA58911-1B	09/26/23	12:39	EF	09/27/23	AQ	Ground Water	BW_VALKENBURG_91638 SENE_23_6N_81W
DA58911-1F	09/26/23	12:39	EF	09/27/23	AQ	Groundwater Filtered	BW_VALKENBURG_91638 SENE_23_6N_81W

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fulcrum Energy Operating **Job No:** DA58911

Site: GWA_FEO_REU_1_23H2 **Report Date** 10/13/2023 10:25:22 A

On 09/27/2023, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA58911 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V7V4565

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method RSK175 MOD

Matrix: AQ **Batch ID:** GFK305

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- DA58911-1A: The pH of the sample was >2 at time of analysis.

GC Volatiles By Method SW846 8015D

Matrix: AQ **Batch ID:** GGA2785

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846-8015D

Matrix: AQ **Batch ID:** OP24440

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) DA58910-1MS, DA58910-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP38205

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA58880-1FMS, DA58880-1FMSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Calcium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

General Chemistry By Method EPA 300.0

Matrix: AQ **Batch ID:** GP35180

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA58889-1MS, DA58889-1MSD were used as the QC samples for the Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride analysis.

Matrix: AQ **Batch ID:** R61838

- The data for EPA 300.0 meets quality control requirements.
- DA58911-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix: AQ **Batch ID:** GP35202

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA58821-9DUP, DA58821-9MS, DA58821-9MSD were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method HACH IRB-BART

Matrix: AQ **Batch ID:** MB1697

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA58983-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.

General Chemistry By Method HACH SLYM-BART

Matrix: AQ **Batch ID:** MB1698

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA58983-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.

General Chemistry By Method HACH SRB-BART

Matrix: AQ **Batch ID:** MB1696

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA58983-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.

General Chemistry By Method SM 2320B-2011

Matrix:	AQ	Batch ID:	GN61432

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA58893-5DUP, DA58893-5MS, DA58893-5MSD were used as the QC samples for the Alkalinity, Total as CaCO3 analysis.

Matrix:	AQ	Batch ID:	GN61433

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix:	AQ	Batch ID:	GN61434

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 2510B-2011

Matrix:	AQ	Batch ID:	GP35185

- Sample(s) DA58951-1DUP were used as the QC samples for the Specific Conductivity analysis.

General Chemistry By Method SM 2540C-2011

Matrix:	AQ	Batch ID:	GN61430

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA58954-3DUP were used as the QC samples for the Solids, Total Dissolved analysis.

General Chemistry By Method SM1030E-2011

Matrix:	AQ	Batch ID:	GN61459

- The data for SM1030E-2011 meets quality control requirements.

General Chemistry By Method SM4500HB+-2011/9040C

Matrix:	AQ	Batch ID:	GN61431

- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA58911-1
- DA58911-1 for pH: Field parameter analyzed by the laboratory upon request.

Field Data By Method FIELD

Matrix:	AQ	Batch ID:	R61861

- The data for FIELD meets quality control requirements.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: DA58911
Account: Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2
Collected: 09/26/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA58911-1	**BW_VALKENBURG_91638 SENE_23_6N_81W**					
Fluoride		0.28	0.10		mg/l	EPA 300.0
Chloride		4.6	0.50		mg/l	EPA 300.0
Nitrogen, Nitrite		0.0086	0.0040		mg/l	EPA 300.0
Bromide		0.054	0.050		mg/l	EPA 300.0
Nitrogen, Nitrate		0.58	0.050		mg/l	EPA 300.0
Sulfate		27.1	0.50		mg/l	EPA 300.0
Nitrogen, Nitrate + Nitrite [a]		0.59	0.054		mg/l	EPA 300.0
Alkalinity, Bicarbonate as CaCO3		225	5.0		mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3		225	5.0		mg/l	SM 2320B-2011
Cation Anion Balance		2.5			%	SM1030E-2011
Phosphorus, Total		0.028	0.010		mg/l	EPA 365.1
Solids, Total Dissolved		300	10		mg/l	SM 2540C-2011
Specific Conductivity		531	1.0		umhos/cm	SM 2510B-2011
pH [b]		7.18			su	SM4500HB+-2011/9040C
Specific Conductivity (Field)		596	0.50		umhos/cm	FIELD
pH (Field)		6.93			su	FIELD
Temperature (Field)		9.4			Deg. C	FIELD
Turbidity		7.73			NTU	FIELD
Redox Potential Vs H2		40.8			mv	FIELD
Oxygen, Dissolved (Field)		1.08			mg/l	FIELD
DA58911-1A	**BW_VALKENBURG_91638 SENE_23_6N_81W**					
No hits reported in this sample.						
DA58911-1B	**BW_VALKENBURG_91638 SENE_23_6N_81W**					
Iron-Related Bacteria		500	25		CFU/ml	HACH IRB-BART
Slime Forming Bacteria		500	500		CFU/ml	HACH SLYM-BART
Sulfate Reducing Bacteria		< 200	200		CFU/ml	HACH SRB-BART
DA58911-1F	**BW_VALKENBURG_91638 SENE_23_6N_81W**					
Barium		75.4	2.0		ug/l	EPA 200.8
Calcium		59400	800		ug/l	EPA 200.8
Magnesium		18100	100		ug/l	EPA 200.8
Manganese		11.6	1.0		ug/l	EPA 200.8
Potassium		1220	200		ug/l	EPA 200.8
Selenium		1.4	0.40		ug/l	EPA 200.8
Sodium		11700	500		ug/l	EPA 200.8
Strontium		643	20		ug/l	EPA 200.8

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

Summary of Hits

Job Number: DA58911
Account: Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2
Collected: 09/26/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						

(b) Field parameter analyzed by the laboratory upon request.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BW_VALKENBURG_91638 SENE_23_6N_81W		
Lab Sample ID:	DA58911-1	**Date Sampled:**	09/26/23
Matrix:	AQ - Ground Water	**Date Received:**	09/27/23
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GWA_FEO_REU_1_23H2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V92123.D	1	10/02/23 02:11	MB	n/a	n/a	V7V4565
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
17060-07-0	1,2-Dichloroethane-D4	97%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_VALKENBURG_91638 SENE_23_6N_81W		
Lab Sample ID:	DA58911-1	**Date Sampled:**	09/26/23
Matrix:	AQ - Ground Water	**Date Received:**	09/27/23
Method:	SW846 8015D	**Percent Solids:**	n/a
Project:	GWA_FEO_REU_1_23H2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA62578.D	1	10/02/23 20:08	MB	n/a	n/a	GGA2785
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	106%		60-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_VALKENBURG_91638 SENE_23_6N_81W		
Lab Sample ID:	DA58911-1	**Date Sampled:**	09/26/23
Matrix:	AQ - Ground Water	**Date Received:**	09/27/23
Method:	SW846-8015D SW846 3510C	**Percent Solids:**	n/a
Project:	GWA_FEO_REU_1_23H2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH068349.D	1	10/04/23 14:52	JB	10/03/23 19:00	OP24440	GFH23728
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.19	0.18	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		10-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_VALKENBURG_91638 SENE_23_6N_81W		
Lab Sample ID:	DA58911-1	**Date Sampled:**	09/26/23
Matrix:	AQ - Ground Water	**Date Received:**	09/27/23
		Percent Solids:	n/a
Project:	GWA_FEO_REU_1_23H2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
300.0							
Fluoride	0.28	0.10	mg/l	1	09/27/23 16:19	MB	EPA 300.0
Chloride	4.6	0.50	mg/l	1	09/27/23 16:19	MB	EPA 300.0
Nitrogen, Nitrite	0.0086	0.0040	mg/l	1	09/27/23 16:19	MB	EPA 300.0
Bromide	0.054	0.050	mg/l	1	09/27/23 16:19	MB	EPA 300.0
Nitrogen, Nitrate	0.58	0.050	mg/l	5	09/27/23 16:28	MB	EPA 300.0
Sulfate	27.1	0.50	mg/l	1	09/27/23 16:19	MB	EPA 300.0
300.0 NO2 + NO3O							
Nitrogen, Nitrate + Nitrite [a]	0.59	0.054	mg/l	1	09/27/23 16:28	MB	EPA 300.0
Alkalinity, Bicarbonate as CaC	225	5.0	mg/l	1	09/28/23 12:00	JW	SM 2320B-2011
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	09/28/23 12:00	JW	SM 2320B-2011
Alkalinity, Total as CaCO3	225	5.0	mg/l	1	09/28/23 12:00	JW	SM 2320B-2011
Cation Anion Balance	2.5		%	1	10/03/23	MB	SM1030E-2011
Phosphorus, Total	0.028	0.010	mg/l	1	10/02/23 12:52	MB	EPA 365.1
Solids, Total Dissolved	300	10	mg/l	1	09/29/23 07:00	JW	SM 2540C-2011
Specific Conductivity	531	1.0	umhos/cm	1	09/29/23 12:00	JW	SM 2510B-2011
pH [b]	7.18		su	1	09/28/23 12:00	JW	SM4500HB+-2011/9040C

Field Parameters

Oxygen, Dissolved (Field)	1.08		mg/l	1	09/26/23 12:39	SUB	FIELD
Redox Potential Vs H2	40.8		mv	1	09/26/23 12:39	SUB	FIELD
Specific Conductivity (Field)	596	0.50	umhos/cm	1	09/26/23 12:39	SUB	FIELD
Temperature (Field)	9.4		Deg. C	1	09/26/23 12:39	SUB	FIELD
Turbidity	7.73		NTU	1	09/26/23 12:39	SUB	FIELD
pH (Field)	6.93		su	1	09/26/23 12:39	SUB	FIELD

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Field parameter analyzed by the laboratory upon request.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_VALKENBURG_91638 SENE_23_6N_81W		
Lab Sample ID:	DA58911-1A	**Date Sampled:**	09/26/23
Matrix:	AQ - Ground Water	**Date Received:**	09/27/23
Method:	RSK175 MOD	**Percent Solids:**	n/a
Project:	GWA_FEO_REU_1_23H2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	FK4197.D	1	10/03/23 11:24	MB	n/a	n/a	GFK305
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	20.8 Deg. C
Run #2				

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

(a) The pH of the sample was > 2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BW_VALKENBURG_91638 SENE_23_6N_81W		
Lab Sample ID:	DA58911-1B	**Date Sampled:**	09/26/23
Matrix:	AQ - Ground Water	**Date Received:**	09/27/23
		Percent Solids:	n/a
Project:	GWA_FEO_REU_1_23H2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron-Related Bacteria	500	25	CFU/ml	1	10/04/23 04:00	CS	HACH IRB-BART
Slime Forming Bacteria	500	500	CFU/ml	1	10/11/23	CS	HACH SLYM-BART
Sulfate Reducing Bacteria	< 200	200	CFU/ml	1	10/04/23 08:00	CS	HACH SRB-BART

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BW_VALKENBURG_91638 SENE_23_6N_81W		
Lab Sample ID:	DA58911-1F	**Date Sampled:**	09/26/23
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/23
		Percent Solids:	n/a
Project:	GWA_FEO_REU_1_23H2		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Barium	75.4	2.0	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Boron	< 40	40	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Calcium	59400	800	ug/l	2	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Iron	< 20	20	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Magnesium	18100	100	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Manganese	11.6	1.0	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Potassium	1220	200	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Selenium	1.4	0.40	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Sodium	11700	500	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]
Strontium	643	20	ug/l	1	09/28/23	09/29/23	DU	EPA 200.8 [1]	EPA 200.8 [2]

(1) Instrument QC Batch: MA17166
(2) Prep QC Batch: MP38205

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

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Bottle Order Control #: | FED-EX Tracking #:
SGS Quote #: | SGS Job #: DA58911

Client / Reporting Information

Company: (Report to) **Absaroka Solutions**
Street: 112 High Street
City, State: Buffalo, WY 82834
Project Contact: Joel Mason
Phone: 307-262-8975
Email: Joel.Mason@Absarokasolutions.com
Sampler(s) Name(s): Emily Fitzjohn

Project Information

Project Name: GWA_FEO_REU_1_23H2
Frequency: ~~IN~~ 2nd
Regulation: 609
Facility ID: 757002
EQuIS Facility Code:
Client Purchase Order #: FEO_CO_0702
Project Manager: Joel Mason

Billing Information (if different from Report to)

Company: Absaroka Solutions, LLC.
Street Address: 112 High Street
City, State ZIP: Buffalo, WY, 80824
Attention:

Requested Analysis (see TEST CODE sheet)

Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Na2S2O4	Other	PH, SCON, TDS	XCARBICALK	BRO, CHL, F, NO2, XNO3O, NO32, SO4	TPO4	Dissolved Metals - Lab Filtered*	VRSK175DGMEP	V8260BTX	B8015DRO	V8015GRO	IRBAC, SFBAC, SO4RBAC	CABAL	LAB USE ONLY
BW_Valkenburg_91638	9/26/2023	12:39	EF	GW	17	9	6			1					1	X	X	X	X	X	X	X	X	X	X	X	C1
SENE_23_6N_81W																											
Temperature, field	9.4	°C																									
pH, field	6.93	s.u.																									
Specific Conductivity, field	596.0	uS/cm																									
Oxidation Reduction Potential, field	40.4	mV																									
Dissolved Oxygen, field	1.08	mg/L																									
Turbidity, field	7.73	NTU																									

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day Emergency
- [ ] 2 Day Emergency
- [ ] 1 Day Emergency

Emergency & Rush T/A data available VIA LabLink. RUSH TAT approval needed.

Special Reporting Instructions

- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ [Results/QC/Narrative (+ chromatograms)]
- [ ] REDT2
- [ ] FULT1
- [x] EDD Format: COGCC Compatible

Comments / Special Instructions

*Dissolved Metals (200.7/200.8): BaMS, B, Ca, Fe,Mg, Mn, K, SeMS, Na, Sr

Please also send reports to Joel.Mason@Absarokasolutions.com and Max.Moran@Absarokasolutions.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
1	9/26/23 18:00	1	2		2
Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
3		3	4		4

Custody Seal # | Intact [ ] | Not Intact [ ] | Absent [ ]
Preserved where applicable [x] | Cooler Temp. °C: 4.0 | Therm. ID: FRW | On Ice [ ]

Form MSQA 064-01, RV 6/19/17
http://www.sgs.com/terms-and-conditions

DA58911: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: da58911 **Client:** ABSAROKA **Project:** GWA

Date / Time Received: 9/27/2023 12:30:00 PM **Delivery Method:** co **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

Cooler Information	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐

	W	or	S	N/A
3. Type of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly	☑		☐	
3. Suffiient volume/containers recv'd for analysis	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample label	☐		☐	
7. VOCs have headspace	☑		☐	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☐
11. % Solids Jar Received?	☐		☐	☐
12. Residual Chlorine Present?	☐		☐	☐

Misc Information

Number of Encores: 25 Gram 5 Gram Number of Lab Filtered Metals:

Test Strip Lot #s: pH 0-3: pH 10-12: Other: (Specify)

Residual Chlorine Test Strip Lot #

Comments

SM001
Rev. Date 05/04/17

Technician: JEREMYD Date: 9/27/2023 12:40:45 PM Reviewer: Date:

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V4565-MB	7V92109.D	1	10/01/23	MB	n/a	n/a	V7V4565

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA58911-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	70-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	96%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V4565-BS	7V92106.D	1	10/01/23	MB	n/a	n/a	V7V4565
V7V4565-BSD	7V92107.D	1	10/01/23	MB	n/a	n/a	V7V4565

The QC reported here applies to the following samples: **Method:** SW846 8260B

DA58911-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	50.0	100	50.8	102	2	70-130/30
100-41-4	Ethylbenzene	50	52.8	106	52.1	104	1	70-130/30
108-88-3	Toluene	50	52.0	104	51.0	102	2	70-130/30
1330-20-7	Xylene (total)	150	161	107	157	105	3	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	98%	100%	70-130%
2037-26-5	Toluene-D8	100%	99%	70-130%
460-00-4	4-Bromofluorobenzene	97%	99%	70-130%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2785-MB	GA62570.D	1	10/02/23	MB	n/a	n/a	GGA2785

The QC reported here applies to the following samples: **Method:** SW846 8015D

DA58911-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	108%	60-140%

Method Blank Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK305-MB	FK4193.D	1	10/03/23	MB	n/a	n/a	GFK305

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA58911-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2785-BS	GA62567.D	1	10/02/23	MB	n/a	n/a	GGA2785
GGA2785-BSD	GA62568.D	1	10/02/23	MB	n/a	n/a	GGA2785

The QC reported here applies to the following samples: **Method:** SW846 8015D

DA58911-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	2.2	1.90	86	1.88	85	1	64-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
120-82-1	1,2,4-Trichlorobenzene	113%	114%	60-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK305-BS	FK4194.D	10	10/03/23	MB	n/a	n/a	GFK305
GFK305-BSD	FK4195.D	10	10/03/23	MB	n/a	n/a	GFK305

The QC reported here applies to the following samples: **Method:** RSK175 MOD

DA58911-1A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	0.512	0.611	119	0.612	120	0	70-135/30
74-84-0	Ethane	0.923	1.22	132	1.22	132	0	70-147/30
74-98-6	Propane	1.38	1.73	126	1.73	126	0	70-140/30

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24440-MB	FH068344.D	1	10/04/23	JB	10/03/23	OP24440	GFH23728

The QC reported here applies to the following samples: **Method:** SW846-8015D

DA58911-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.20	0.19	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	72%	10-131%

Blank Spike Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24440-BS	FH068345.D	1	10/04/23	JB	10/03/23	OP24440	GFH23728

The QC reported here applies to the following samples: **Method:** SW846-8015D

DA58911-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	5	3.71	74	20-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	75%	10-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA58911
Account: FUEOCOC Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP24440-MS	FH068346.D	1	10/04/23	JB	10/03/23	OP24440	GFH23728
OP24440-MSD	FH068347.D	1	10/04/23	JB	10/03/23	OP24440	GFH23728
DA58910-1	FH068348.D	1	10/04/23	JB	10/03/23	OP24440	GFH23728

The QC reported here applies to the following samples: **Method:** SW846-8015D

DA58911-1

CAS No.	Compound	DA58910-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		10	7.46	75	10	6.85	69	9	20-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA58910-1	Limits
84-15-1	o-Terphenyl	76%	68%	82%	10-131%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA58911
Account: FUEOCOC - Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

QC Batch ID: MP38205
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 09/28/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.52	13		
Antimony	0.40	.01	.3		
Arsenic	0.20	.05	.05		
Barium	2.0	.096	.25	0.059	<2.0
Beryllium	0.20	.077	.1		
Boron	40	18	20	1.7	<40
Cadmium	0.10	.03	.04		
Calcium	400	25	100	12.2	<400
Chromium	2.0	.087	.25		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	.81		
Iron	20	1.6	10	4.4	<20
Lead	0.50	.094	.13		
Magnesium	100	10	25	4.2	<100
Manganese	1.0	.079	.51	0.068	<1.0
Molybdenum	1.0	.037	.27		
Nickel	2.0	.098	.35		
Phosphorus	60	7.6	25		
Potassium	200	2	50	-2.2	<200
Selenium	0.40	.05	.1	0.030	<0.40
Silver	0.10	.0081	.025		
Sodium	500	10	130	27.0	<500
Strontium	20	.1	5	0.031	<20
Thallium	0.20	.032	.05		
Tin	10	.22	2.5		
Titanium	2.0	.05	.37		
Uranium	0.20	.015	.05		
Vanadium	1.0	.14	.2		
Zinc	10	.05	2.1		

Associated samples MP38205: DA58911-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA58911
Account: FUEOCOC - Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

QC Batch ID: MP38205
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 09/28/23

Metal	DA58880-1F Original	MS	Spikelot ICPMS5	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	32.5	447	400	103.6	70-130
Beryllium					
Boron	202	635	400	108.3	70-130
Cadmium	anr				
Calcium	152000	169000	5000	340.0(a)	70-130
Chromium	anr				
Cobalt					
Copper	anr				
Iron	7.6	998	1000	99.0	70-130
Lead	anr				
Magnesium	28000	31900	5000	78.0	70-130
Manganese	36.4	239	200	101.3	70-130
Molybdenum	anr				
Nickel	anr				
Phosphorus					
Potassium	1920	6460	5000	90.8	70-130
Selenium	3.1	202	200	99.5	70-130
Silver	anr				
Sodium	99000	110000	5000	220.0(a)	70-130
Strontium	869	966	100	97.0	70-130
Thallium	anr				
Tin					
Titanium					
Uranium	anr				
Vanadium					
Zinc	anr				

Associated samples MP38205: DA58911-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA58911
Account: FUEOCOC - Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

QC Batch ID: MP38205
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 09/28/23

Metal	DA58880-1F Original	MSD	Spikelot ICPMS5	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	32.5	448	400	103.9	1.8	20
Beryllium						
Boron	202	654	400	113.0	1.5	20
Cadmium	anr					
Calcium	152000	170000	5000	360.0(a)	8.6	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	7.6	957	1000	94.9	5.4	20
Lead	anr					
Magnesium	28000	33500	5000	110.0	1.5	20
Manganese	36.4	236	200	99.8	2.9	20
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium	1920	6550	5000	92.6	2.6	20
Selenium	3.1	206	200	101.5	1.4	20
Silver	anr					
Sodium	99000	113000	5000	280.0(a)	4.5	20
Strontium	869	962	100	93.0	0.4	20
Thallium	anr					
Tin						
Titanium						
Uranium	anr					
Vanadium						
Zinc	anr					

Associated samples MP38205: DA58911-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA58911
Account: FUEOCOC - Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

QC Batch ID: MP38205
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 09/28/23

Metal	BSP Result	Spikelot ICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	420	400	105.0	85-115
Beryllium				
Boron	444	400	111.0	85-115
Cadmium	anr			
Calcium	5270	5000	105.4	85-115
Chromium	anr			
Cobalt				
Copper	anr			
Iron	1060	1000	106.0	85-115
Lead	anr			
Magnesium	5020	5000	100.4	85-115
Manganese	214	200	107.0	85-115
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium	5000	5000	100.0	85-115
Selenium	208	200	104.0	85-115
Silver	anr			
Sodium	5140	5000	102.8	85-115
Strontium	103	100	103.0	85-115
Thallium	anr			
Tin				
Titanium				
Uranium	anr			
Vanadium				
Zinc	anr			

Associated samples MP38205: DA58911-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA58911
Account: FUEOCOC - Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN61433	5.0	0.0	mg/l	100	97.5	97.5	90-110%
Alkalinity, Carbonate	GN61434	5.0	0.0	mg/l	100	97.5	97.5	90-110%
Alkalinity, Total as CaCO3	GN61432	5.0	0.0	mg/l	100	97.5	97.5	90-110%
Bromide	GP35180/GN61423	0.050	0.0	mg/l	0.5	0.510	102.0	90-110%
Chloride	GP35180/GN61423	0.50	0.0	mg/l	5	4.91	98.2	90-110%
Fluoride	GP35180/GN61423	0.10	0.0	mg/l	1	0.982	98.2	90-110%
Iron-Related Bacteria	MB1697	25	<25	CFU/ml				
Nitrogen, Nitrate	GP35180/GN61423	0.010	0.0	mg/l	0.1	0.102	102.0	90-110%
Nitrogen, Nitrite	GP35180/GN61423	0.0040	0.0	mg/l	0.05	0.0516	103.2	90-110%
Phosphorus, Total	GP35202/GN61447	0.010	0.0	mg/l	0.2	0.202	101.0	90-110%
Slime Forming Bacteria	MB1698	500	<500	CFU/ml				
Solids, Total Dissolved	GN61430	10	0.0	mg/l	250	248	99.2	90-110%
Specific Conductivity	GP35185/GN61435			umhos/cm	10000	1070	107.0	90-110%
Sulfate	GP35180/GN61423	0.50	0.0	mg/l	5	5.02	100.4	90-110%
Sulfate Reducing Bacteria	MB1696	200	<200	CFU/ml				

Associated Samples:
Batch MB1696: DA58911-1B
Batch MB1697: DA58911-1B
Batch MB1698: DA58911-1B
Batch GN61430: DA58911-1
Batch GN61432: DA58911-1
Batch GN61433: DA58911-1
Batch GN61434: DA58911-1
Batch GP35180: DA58911-1
Batch GP35185: DA58911-1
Batch GP35202: DA58911-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA58911
Account: FUEOCOC - Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN61432	DA58893-5	mg/l	275	278	0.9	0-20%
Iron-Related Bacteria	MB1697	DA58983-1B	CFU/ml	500	500	0.0	0-%
Phosphorus, Total	GP35202/GN61447	DA58821-9	mg/l	0.061	0.061	0.0	0-20%
Slime Forming Bacteria	MB1698	DA58983-1B	CFU/ml	500	500	0.0	0-%
Solids, Total Dissolved	GN61430	DA58954-3	mg/l	13200	13400	1.6	0-5.44%
Specific Conductivity	GP35185/GN61435	DA58951-1	umhos/cm	945	946	0.1	0-20%
Sulfate Reducing Bacteria	MB1696	DA58983-1B	CFU/ml	1400	1400	0.0	0-%

Associated Samples:
Batch MB1696: DA58911-1B
Batch MB1697: DA58911-1B
Batch MB1698: DA58911-1B
Batch GN61430: DA58911-1
Batch GN61432: DA58911-1
Batch GP35185: DA58911-1
Batch GP35202: DA58911-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA58911
Account: FUEOCOC - Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN61432	DA58893-5	mg/l	275	100	365	90.0	80-120%
Bromide	GP35180/GN61423	DA58889-1	mg/l	0.042	0.5	0.55	101.6	80-120%
Chloride	GP35180/GN61423	DA58889-1	mg/l	3.5	5	8.6	102.0	80-120%
Fluoride	GP35180/GN61423	DA58889-1	mg/l	0.27	1	1.3	103.0	80-120%
Nitrogen, Nitrate	GP35180/GN61423	DA58889-1	mg/l	0.16	0.1	0.26	100.0	80-120%
Nitrogen, Nitrite	GP35180/GN61423	DA58889-1	mg/l	0.0030 U	0.05	0.048	96.0	80-120%
Phosphorus, Total	GP35202/GN61447	DA58821-9	mg/l	0.061	0.2	0.26	99.5	90-110%
Sulfate	GP35180/GN61423	DA58889-1	mg/l	22.8	5	27.5	94.0	80-120%

Associated Samples:
Batch GN61432: DA58911-1
Batch GP35180: DA58911-1
Batch GP35202: DA58911-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA58911
Account: FUEOCOC - Fulcrum Energy Operating
Project: GWA_FEO_REU_1_23H2

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN61432	DA58893-5	mg/l	275	100	365	0.0	20%
Bromide	GP35180/GN61423	DA58889-1	mg/l	0.042	0.5	0.55	0.0	20%
Chloride	GP35180/GN61423	DA58889-1	mg/l	3.5	5	8.6	0.0	20%
Fluoride	GP35180/GN61423	DA58889-1	mg/l	0.27	1	1.3	0.0	20%
Nitrogen, Nitrate	GP35180/GN61423	DA58889-1	mg/l	0.16	0.1	0.26	0.0	20%
Nitrogen, Nitrite	GP35180/GN61423	DA58889-1	mg/l	0.0030 U	0.05	0.048	0.0	20%
Phosphorus, Total	GP35202/GN61447	DA58821-9	mg/l	0.061	0.2	0.27	3.8	20%
Sulfate	GP35180/GN61423	DA58889-1	mg/l	22.8	5	27.5	0.0	20%

Associated Samples:
Batch GN61432: DA58911-1
Batch GP35180: DA58911-1
Batch GP35202: DA58911-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits