

November 18, 2022

Foundation Energy Inc.

Alyssa Beard

1775 Sherman Street, Suite 1800

Denver CO 80203

Project Name - State 36-16 Injection Water

Project Number - [none]

Attached are your analytical results for State 36-16 Injection Water received by Origins Laboratory, Inc. November 02, 2022. This project is associated with Origins project number Y211097-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Foundation Energy Inc.
1775 Sherman Street, Suite 1800
Denver CO 80203

Alyssa Beard
Project Number: [none]
Project: State 36-16 Injection Water

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Injection Water State 36-16	Y211097-01	Water	November 2, 2022 12:30	11/02/2022 16:20

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Foundation Energy Inc.
 1775 Sherman Street, Suite 1800
 Denver CO 80203

Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4211097

Client: Foundation Energy
 Client Project ID: State 36-16 Injection Water

Checklist Completed by: TSM/OE

Shipped Via: HP
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/03/12

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1, 10-2°C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			NO2/NO3
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	X			not checked
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) HP

Date/Time Reviewed 11-3-12

Origins Laboratory, Inc.



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Foundation Energy Inc.
 1775 Sherman Street, Suite 1800
 Denver CO 80203

Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Iniection Water State 36-16

11/2/2022 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y211097-01 (Water)

Alkalinity by SM 2320B

Alkalinity, Total as CaCO3	1040	4.00	mg/L	1	2339347	HH2	11/02/2022	11/08/2022	
Bicarbonate alkalinity (CaCO3)	1040	4.00	"	"	"	HH2	"	"	
Carbonate alkalinity (CaCO3)	ND	4.00	"	"	"	HH2	"	"	U

Anions by IC 300.0

Chloride	6670	125	mg/L	501	B2K0323	ACC	11/03/2022	11/03/2022	
Fluoride	97.1	2.50	"	25	"	ACC	"	11/03/2022	
Bromide	70.3	2.50	"	"	"	ACC	"	"	
Sulfate	77.5	6.25	"	"	"	ACC	"	"	
Nitrate	ND	2.50	"	"	"	ACC	"	"	
Nitrite	ND	2.50	"	"	"	ACC	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	9.99	5.00	mg/L	1	B2K0716	ADM	11/07/2022	11/09/2022	
Residual Range Organics (C28-C40)	ND	10.0	"	"	"	ADM	"	"	Ua

Surrogate: o-Terphenyl 93.9% 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Benzene	2.82	1.00	ug/L	1	B2K0326	JMA	11/03/2022	11/04/2022	
Ethylbenzene	ND	1.00	"	"	"	JMA	"	"	Ua

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Foundation Energy Inc.
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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Injection Water State 36-16

11/2/2022 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211097-01 (Water)

GBTEX + Naphthalene by EPA 8260D

Toluene	6.29	1.00	ug/L	1	B2K0326	JMA	11/03/2022	11/04/2022	
Naphthalene	ND	10.0	"	"	"	JMA	"	"	Ua
Gasoline Range Hydrocarbons	231	200	"	"	"	JMA	"	"	
Xylenes, total	4.13	2.00	"	"	"	JMA	"	"	

Surrogate: 1,2-Dichloroethane-d4	88.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

pH in Water by EPA 9040C

pH	7.26		pH Units	1	B2K0325	HJD	11/03/2022	11/03/2022	
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Radium 226 by EPA 903.1 Modified

Radium-226	46.5	1.00	pCi/L	1	2338805	LXP1	11/02/2022	11/17/2022	
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Radium 228 by EPA 904.0 Modified

Radium-228	67.3	3.00	pCi/L	1	2338814	JE1	"	11/10/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	18800	5.00	uS/cm	1	B2K0325	HJD	11/03/2022	11/03/2022	
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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Iniection Water State 36-16

11/2/2022 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211097-01 (Water)

Total Dissolved Solids by 2540C

Total Dissolved Solids	11800	5.00	mg/L	"	B2K0711	SCL	11/07/2022	11/07/2022	
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Total Metals by EPA 200.8

Barium	0.975	0.100	mg/L	100	B2K0429	CIH	11/04/2022	11/08/2022	
Boron	21.4	1.00	"	"	"	CIH	"	"	
Calcium	33.5	10.0	"	"	"	CIH	"	"	
Iron	31.2	1.00	"	"	"	CIH	"	"	
Magnesium	3.84	1.00	"	"	"	CIH	"	"	
Manganese	0.451	0.100	"	"	"	CIH	"	"	
Potassium	11.2	10.0	"	"	"	CIH	"	"	
Selenium	ND	0.0100	"	"	"	CIH	"	"	Ua
Sodium	4490	10.0	"	"	"	CIH	"	"	
Strontium	7.70	1.00	"	"	"	CIH	"	"	

Total Phosphorus by EPA 365.4

Phosphorus, Total as P	5.35	0.250	mg/L	5	2338854	KLP1	11/07/2022	11/07/2022	
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Total Suspended Solids by 2540D

Total Suspended Solids	49.0	5.00	mg/L	1	B2K0713	SCL	11/07/2022	11/07/2022	
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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0326 - EPA 5030B (Water)

Blank (B2K0326-BLK1)

Prepared: 11/03/2022 Analyzed: 11/03/2022

Benzene	ND	1.00	ug/L							Ua
Ethylbenzene	ND	1.00	"							Ua
Toluene	ND	1.00	"							Ua
Naphthalene	ND	10.0	"							Ua
Gasoline Range Hydrocarbons	ND	200	"							Ua
Xylenes, total	ND	2.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0326 - EPA 5030B (Water)

LCS (B2K0326-BS1)

Prepared: 11/03/2022 Analyzed: 11/03/2022

Benzene	43.5	1.00	ug/L	50.0		86.9	70-130			
Ethylbenzene	47.1	1.00	"	50.0		94.1	70-130			
m,p-Xylene	93.6	2.00	"	100		93.6	70-130			
o-Xylene	43.1	1.00	"	50.0		86.2	70-130			
Toluene	47.9	1.00	"	50.0		95.8	70-130			
Naphthalene	42.6	10.0	"	50.0		85.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.0	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0326 - EPA 5030B (Water)

Matrix Spike (B2K0326-MS1)	Source: Y211092-02			Prepared: 11/03/2022 Analyzed: 11/03/2022						
Benzene	43.8	1.00	ug/L	50.0	ND	87.7	70-130			
Ethylbenzene	47.4	1.00	"	50.0	ND	94.9	70-130			
m,p-Xylene	94.2	2.00	"	100	ND	94.2	70-130			
o-Xylene	44.6	1.00	"	50.0	ND	89.1	70-130			
Toluene	47.8	1.00	"	50.0	ND	95.5	70-130			
Naphthalene	44.5	10.0	"	50.0	ND	89.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.7	70-130			

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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0326 - EPA 5030B (Water)

Matrix Spike Dup (B2K0326-MSD1)	Source: Y211092-02			Prepared: 11/03/2022 Analyzed: 11/03/2022						
Benzene	42.5	1.00	ug/L	50.0	ND	85.1	70-130	3.06	20	
Ethylbenzene	47.7	1.00	"	50.0	ND	95.3	70-130	0.484	20	
m,p-Xylene	94.2	2.00	"	100	ND	94.2	70-130	0.0425	20	
o-Xylene	44.7	1.00	"	50.0	ND	89.3	70-130	0.224	20	
Toluene	47.1	1.00	"	50.0	ND	94.1	70-130	1.48	20	
Naphthalene	44.4	10.0	"	50.0	ND	88.7	70-130	0.248	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.2	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.2	70-130			

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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2K0716 - EPA 3511 Mod.										
Blank (B2K0716-BLK1)										
					Prepared: 11/07/2022 Analyzed: 11/09/2022					
Diesel (C10-C28)	ND	5.00	mg/L							Ua
Residual Range Organics (C28-C40)	ND	10.0	"							Ua
Surrogate: o-Terphenyl	5.2		"	4.98		105	50-150			

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Foundation Energy Inc.
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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0716 - EPA 3511 Mod.

LCS (B2K0716-BS1)

Prepared: 11/07/2022 Analyzed: 11/09/2022

Diesel (C10-C28)	109	5.00	mg/L	100		109	70-130			
Residual Range Organics (C28-C40)	103	10.0	"	100		103	70-130			
Surrogate: o-Terphenyl	5.1		"	4.98		103	50-150			

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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0716 - EPA 3511 Mod.

LCS Dup (B2K0716-BSD1)

Prepared: 11/07/2022 Analyzed: 11/09/2022

Diesel (C10-C28)	107	5.00	mg/L	100		107	70-130	1.60	20	
Residual Range Organics (C28-C40)	107	10.0	"	100		107	70-130	4.18	20	
Surrogate: o-Terphenyl	5.2		"	4.98		104	50-150			

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 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 200 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0429 - EPA 200.8 Preparation

Blank (B2K0429-BLK1)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Barium	ND	0.00100	mg/L							Ua
Boron	ND	0.0100	"							Ua
Calcium	ND	0.100	"							Ua
Iron	ND	0.0100	"							Ua
Magnesium	ND	0.0100	"							Ua
Manganese	ND	0.00100	"							Ua
Potassium	ND	0.100	"							Ua
Selenium	ND	0.000100	"							Ua
Sodium	ND	0.100	"							Ua
Strontium	ND	0.0100	"							Ua

LCS (B2K0429-BS1)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Barium	5.31	0.00100	mg/L	5.00		106	85-115			
Boron	0.0477	0.0100	"	0.0500		95.5	85-115			
Calcium	5.40	0.100	"	5.00		108	85-115			
Iron	5.25	0.0100	"	5.00		105	85-115			
Magnesium	5.03	0.0100	"	5.00		101	85-115			
Manganese	0.0525	0.00100	"	0.0500		105	85-115			
Potassium	5.22	0.100	"	5.00		104	85-115			
Selenium	0.0491	0.000100	"	0.0500		98.3	85-115			
Sodium	5.20	0.100	"	5.00		104	85-115			
Strontium	0.522	0.0100	"	0.500		104	85-115			

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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Metals by EPA 200 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0429 - EPA 200.8 Preparation

LCS (B2K0429-BS1)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Matrix Spike (B2K0429-MS1)

Source: Y211055-01

Prepared: 11/04/2022 Analyzed: 11/07/2022

Barium	5.77	0.0100	mg/L	5.00	0.651	102	70-130			
Boron	0.660	0.100	"	0.0500	0.672	NR	70-130			QM-02
Calcium	310	1.00	"	5.00	302	160	70-130			QM-02
Iron	7.11	0.100	"	5.00	2.04	101	70-130			
Magnesium	5.78	0.100	"	5.00	0.809	99.4	70-130			
Manganese	0.0830	0.0100	"	0.0500	0.0322	102	70-130			
Potassium	29.3	1.00	"	5.00	23.8	110	70-130			
Selenium	0.0508	0.00100	"	0.0500	0.00235	97.0	70-130			
Sodium	387	1.00	"	5.00	422	NR	70-130			QM-02
Strontium	4.59	0.100	"	0.500	4.03	112	70-130			

Matrix Spike Dup (B2K0429-MSD1)

Source: Y211055-01

Prepared: 11/04/2022 Analyzed: 11/07/2022

Barium	5.63	0.0100	mg/L	5.00	0.651	99.6	70-130	2.45	25	
Boron	0.798	0.100	"	0.0500	0.672	253	70-130	18.9	25	QM-02
Calcium	301	1.00	"	5.00	302	NR	70-130	2.98	25	QM-02
Iron	6.89	0.100	"	5.00	2.04	97.0	70-130	3.09	25	
Magnesium	5.33	0.100	"	5.00	0.809	90.5	70-130	8.05	25	
Manganese	0.0802	0.0100	"	0.0500	0.0322	96.0	70-130	3.40	25	
Potassium	28.2	1.00	"	5.00	23.8	87.8	70-130	3.88	25	
Selenium	0.0486	0.00100	"	0.0500	0.00235	92.4	70-130	4.61	25	
Sodium	463	1.00	"	5.00	422	828	70-130	17.8	25	QM-02
Strontium	4.47	0.100	"	0.500	4.03	87.2	70-130	2.76	25	

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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0323 - Filter .45um non acidified

Blank (B2K0323-BLK1)

Prepared: 11/03/2022 Analyzed: 11/03/2022

Chloride	ND	0.250	mg/L							
Fluoride	ND	0.100	"							
Bromide	ND	0.100	"							
Sulfate	ND	0.250	"							
Nitrate	ND	0.100	"							
Nitrite	ND	0.100	"							

LCS (B2K0323-BS1)

Prepared: 11/03/2022 Analyzed: 11/03/2022

Chloride	3.74	0.250	mg/L	4.00		93.6	90-110			
Fluoride	3.70	0.100	"	4.00		92.5	90-110			
Bromide	3.72	0.100	"	4.00		93.1	90-110			
Sulfate	3.85	0.250	"	4.00		96.3	90-110			
Nitrate	3.84	0.100	"	4.00		95.9	90-110			
Nitrite	3.99	0.100	"	4.00		99.7	90-110			

Matrix Spike (B2K0323-MS1)

Source: Y211095-01

Prepared: 11/03/2022 Analyzed: 11/03/2022

Chloride	543		mg/L	500	59.4	96.8	90-110			
Fluoride	475		"	500	1.29	94.8	90-110			
Bromide	485		"	500	0.456	96.9	90-110			
Sulfate	497		"	500	0.00	99.4	90-110			
Nitrate	489		"	500	0.00	97.8	90-110			
Nitrite	446		"	500	0.00	89.1	90-110			QM-07

Matrix Spike Dup (B2K0323-MSD1)

Source: Y211095-01

Prepared: 11/03/2022 Analyzed: 11/03/2022

Chloride	576		mg/L	500	59.4	103	90-110	5.87	5	QR-02
Fluoride	492		"	500	1.29	98.0	90-110	3.40	5	
Bromide	490		"	500	0.456	98.0	90-110	1.13	5	

Origins Laboratory, Inc.



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Foundation Energy Inc.
 1775 Sherman Street, Suite 1800
 Denver CO 80203

Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2K0323 - Filter .45um non acidified										
Matrix Spike Dup (B2K0323-MSD1)			Source: Y211095-01		Prepared: 11/03/2022 Analyzed: 11/03/2022					
Sulfate	513		mg/L	500	0.00	103	90-110	3.19	5	
Nitrate	513		"	500	0.00	103	90-110	4.73	5	
Nitrite	456		"	500	0.00	91.2	90-110	2.28	5	
Batch B2K0325 - Default Prep GenChem										
Blank (B2K0325-BLK1)			Prepared: 11/03/2022 Analyzed: 11/03/2022							
Specific Conductance (EC)	4.50	5.00	uS/cm							
Duplicate (B2K0325-DUP1)			Source: Y211095-01		Prepared: 11/03/2022 Analyzed: 11/03/2022					
Specific Conductance (EC)	969	5.00	uS/cm		956			1.39	10	
pH	8.51		pH Units		8.55			0.469	2.51	
Batch B2K0711 - NO PREP										
Blank (B2K0711-BLK1)			Prepared: 11/07/2022 Analyzed: 11/07/2022							
Total Dissolved Solids	ND	5.00	mg/L							Ua
LCS (B2K0711-BS1)			Prepared: 11/07/2022 Analyzed: 11/07/2022							
Total Dissolved Solids	998	5.00	mg/L	1000		99.8	90-110			
Duplicate (B2K0711-DUP1)			Source: Y211089-16		Prepared: 11/07/2022 Analyzed: 11/07/2022					
Total Dissolved Solids	1070	5.00	mg/L		1070			0.281	10	
Batch B2K0713 - NO PREP										
Blank (B2K0713-BLK1)			Prepared: 11/07/2022 Analyzed: 11/07/2022							
Total Suspended Solids	ND	5.00	mg/L							Ua

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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Classical Chemistry Parameters - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2K0713 - NO PREP										
LCS (B2K0713-BS1)					Prepared: 11/07/2022 Analyzed: 11/07/2022					
Total Suspended Solids	88.0	5.00	mg/L	100		88.0	75-110			
Duplicate (B2K0713-DUP1)		Source: Y211083-01			Prepared: 11/07/2022 Analyzed: 11/07/2022					
Total Suspended Solids	4.00	5.00	mg/L		4.00			0.00	20	Ua

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 Project: State 36-16 Injection Water

Alkalinity by SM 2320B - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2339347 -										
LCS (1205238681-BKS)					Prepared: Analyzed: 11/08/2022					
Alkalinity, Total as CaCO3	101	4.00	mg/L	100		101	90-110			
DUP (1205238682 D)		Source: 598584001			Prepared: Analyzed: 11/08/2022					
Carbonate alkalinity (CaCO3)	ND	4.00	mg/L		<1.45		0-20	0	20	U
Bicarbonate alkalinity (CaCO3)	1610	4.00	"		1610		0-20	0.187	20	
Alkalinity, Total as CaCO3	1610	4.00	"		1610		0-20	0.187	20	
MS (1205238683 S)		Source: 598584001			Prepared: Analyzed: 11/08/2022					
Alkalinity, Total as CaCO3	1700	4.00	mg/L	100	1610	0	80-120			

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 Project: State 36-16 Injection Water

Radium 226 by EPA 903.1 Modified - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2338805 -										
BLANK (1205237413-BLK)					Prepared: Analyzed: 11/17/2022					
Radium-226	0.174	1.00	pCi/L				-			U
DUP (1205237414 D)					Source: Y211097-01 Prepared: Analyzed: 11/17/2022					
Radium-226	47.4	1.00	pCi/L		46.5		0-20	1.98	20	
MS (1205237415 S)					Source: Y211097-01 Prepared: Analyzed: 11/17/2022					
Radium-226	176	1.00	pCi/L	133	46.5	97.4	75-125			
LCS (1205237416-BKS)					Prepared: Analyzed: 11/17/2022					
Radium-226	22.1	1.00	pCi/L	26.6		83.1	75-125			

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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Radium 228 by EPA 904.0 Modified - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2338814 -										
BLANK (1205237447-BLK)					Prepared: Analyzed: 11/10/2022					
Radium-228	-1.04	3.00	pCi/L				-			U
DUP (1205237448 D)		Source: Y211097-01			Prepared: Analyzed: 11/10/2022					
Radium-228	52.0	3.00	pCi/L		67.3		0-20	25.6	20	
LCS (1205237449-BKS)					Prepared: Analyzed: 11/10/2022					
Radium-228	61.6	3.00	pCi/L	65.9		93.4	75-125			

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Alyssa Beard
 Project Number: [none]
 Project: State 36-16 Injection Water

Total Phosphorus by EPA 365.4 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2338854 - EPA 365.4 Prep										
BLANK (1205237528-BLK)					Prepared: 11/07/2022 Analyzed: 11/07/2022					
Phosphorus, Total as P	0.0275	0.0500	mg/L				-			J
LCS (1205237529-BKS)					Prepared: 11/07/2022 Analyzed: 11/07/2022					
Phosphorus, Total as P	0.909	0.0500	mg/L	1.00		90.9	80-123			
DUP (1205237530 D)					Prepared: 11/07/2022 Analyzed: 11/07/2022					
Phosphorus, Total as P	0.165	0.0500	mg/L		0.167		0-36	1.2	36	
MS (1205237531 S)					Prepared: 11/07/2022 Analyzed: 11/07/2022					
Phosphorus, Total as P	1.07	0.0500	mg/L	1.00	0.167	90.3	66-140			

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Foundation Energy Inc.
1775 Sherman Street, Suite 1800
Denver CO 80203

Alyssa Beard
Project Number: [none]
Project: State 36-16 Injection Water

Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- J Greater than the detection limit but less than the reporting limit
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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