



8000 West 44th Ave., Wheat Ridge, CO 80033 • Phone: 303-433-0479 • Fax: 303-325-5449 • www.eagle-enviro.com

January 25, 2024

Christopher Banks & Jessica Kern
4412 E. Mulberry Street, #386
Fort Collins, CO 80524

**RE: CECMC Rule 615: Groundwater Sampling Results
Subsequent Water Well Sampling: Bayswater – Ruby 7-J Pad
Water Well Receipt #: 3670354**

Dear Christopher & Jessica,

On January 3, 2024, Eagle Environmental Consulting LLC (EAGLE) collected a subsequent groundwater sample from water well receipt number 3670354 on your property at 40527 County Road 37, Ault, CO 80610 located in SENE, Section 12, T7N, R66W, Weld County, Colorado on behalf of Bayswater Exploration and Production LLC (Bayswater). Using the Colorado Energy & Carbon Management Commission (CECMC) Rule 615 guidelines, EAGLE collected the subsequent groundwater sample as part of a mandatory sampling program to provide assurance to water well owners and the general public that groundwater is not being impacted by oil and gas operations from Bayswater's nearby Ruby 7-J Pad. Groundwater samples were collected by qualified EAGLE personnel with your consent and sent to Origins Laboratory in Denver, Colorado for the required analysis.

The purpose of this letter is to provide you, the owner of water well 3670354, with the water quality analysis results presented on Table 1 as required by the CECMC pertaining to Rule 615.f. Water quality analysis results are compared to previous samples collected on July 19, 2022, as well as Colorado Primary Drinking Water Standards (5 CCR 1002-11) and National Safe Drinking Water Act Drinking Water Standards (40 CFR 141). Based on the subsequent groundwater sampling results, your water well has not been impacted by Bayswater's nearby oil and gas operations.

In accordance with CECMC Rule 615.d.(2), EAGLE has collected one (1) subsequent sample from the same water well for comparison with previous analyte levels. This subsequent sampling event was within six (6) to twelve (12) months following completion of the oil and gas well, dedicated injection well, or the last well on a multi-well site. Wells that are drilled and abandoned without ever producing hydrocarbons are exempt from subsequent monitoring sampling. At the appropriate time, EAGLE will contact you to schedule a convenient time to collect a second subsequent sampling event between 60 and 72 months following completion of the oil and gas well, dedicated injection well, or the last well on a multi-well site. Additional subsequent samples will be collected every 5 years for the life of the well pad. A post abandonment sample will be collected 6 to 12 months after the oil and gas well, dedicated injection well, or the last well on a multi-well site has been plugged and abandoned.

EAGLE would like to thank you on behalf of Bayswater for your cooperation with this sampling program. If you have any questions or concerns, please feel free to contact EAGLE at (303) 433-0479.

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING LLC



David Castro
Senior Project Scientist

ADDITIONAL RESOURCES

For information on drinking water standards, please visit the EPA's website at <https://www.epa.gov/dwreginfo/drinking-water-regulations>

The Colorado Department of Public Health and the Environment (CDPHE) also maintains a webpage on ground water at <https://cdphe.colorado.gov/dwinfo>

Other sources of information on private water well testing and maintenance can be found online at: <https://ecmc.state.co.us/documents/library/Presentations/General/waterwellbooklet.pdf>

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
BANKS 3670354
615 SUBSEQUENT SAMPLE 01/03/2024
SE¼ NE¼ SEC.12 T7N R66W 6PM
WELD COUNTY, COLORADO
COGCC FACILITY ID 769076
RUBY 7-J PAD

Method	Parameter	Unit	07/19/2022 Baseline Sample Result	01/03/2023 Subsequent Sample Result	Colorado Primary Drinking Water Standards (5 CCR 1002-11)	National Drinking Water Standards (40 CFR 141)
SW8260D	Benzene	ug/L	<1	<1.00	5	5
SW8260D	Toluene	ug/L	<1	<1.00	1,000	1,000
SW8260D	Ethylbenzene	ug/L	<1	<1.00	700	700
SW8260D	Xylenes, Total	ug/L	<1	<1.00	10,000	10,000
RSK 175	Methane	ug/L	<0.8	<10.0	-	-
RSK 175	Ethane	ug/L	<1.6	<10.0	-	-
RSK 175	Propane	ug/L	<2.2	<10.0	-	-
8015D	TPH-GRO	mg/L	<0.05	<0.100	-	-
8015D	TPH-DRO	mg/L	<0.19	<0.200	-	-
EPA 200.8	Barium	ug/L	48.2	36.9	2,000	2,000
EPA 200.8	Boron	ug/L	165	142	-	-
EPA 200.8	Calcium	ug/L	126,000	121,000	-	-
EPA 200.8	Iron	ug/L	16.3	65.3	-	300
EPA 200.8	Magnesium	ug/L	37,900	36,500	-	-
EPA 200.8	Manganese	ug/L	<5	1.99	-	50
EPA 200.8	Potassium	ug/L	6,630	6,390	-	-
EPA 200.8	Selenium	ug/L	3.4	3.01	50	50
EPA 200.8	Sodium	ug/L	60,500	56,300	-	-
EPA 200.8	Strontium	ug/L	1,120	1,090	-	-
SM2320B	Alkalinity, Total as CaCO3	mg/L	278	256	-	-
SM2320B	Alkalinity, Bicarbonate as CaCO3	mg/L	278	256	-	-
SM2320B	Alkalinity, Carbonate as CaCO3	mg/L	<5	<2.00	-	-
EPA 300.0	Bromide	mg/L	0.22	<0.500	-	-
EPA 300.0	Chloride	mg/L	44.2	31.4	-	250
EPA 300.0	Fluoride	mg/L	0.4	0.405	4	4
EPA 300.0	Nitrate	mg/L	10.3	8.44	10	10
EPA 300.0	Nitrite	mg/L	<0.1	<0.100	1	1
EPA 300.0	Sulfate	mg/L	251	223	-	250
EPA 353.2	Nitrogen, Nitrate/Nitrite	mg/L		9.48	10	-
EPA 365.4	Phosphorus, Total	mg/L	0.013	<0.05	-	-





January 23, 2024

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Ruby 7-J Pad 615

Project Number - [none]

Attached are your analytical results for Ruby 7-J Pad 615 received by Origins Laboratory, Inc. January 03, 2024. This project is associated with Origins project number Y401045-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Ruby 7-J Pad 615

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Banks 3670354	Y401045-01	Water	January 3, 2024 14:20	01/03/2024 16:47

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401045

Client: Eagle
 Client Project ID: Ruby 7-J Pad 615

Checklist Completed by: JHV/ew
 Date/time completed: 1/3/24

Shipped Via: TD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1-2 °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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			NO ₂ -INO ₃ (BARE)
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	/			NC
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) [Signature]

Date/Time Reviewed 1/4/24

Origins Laboratory, Inc.
[Signature]

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

Banks 3670354

1/3/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y401045-01 (Water)
Origins Laboratory, Inc.

Anions by IC 300.0

Chloride	31.4	1.25	mg/L	5	B4A0405	STW	01/04/2024	01/05/2024	
Fluoride	0.405	0.100	"	1	"	STW	"	01/05/2024	
Bromide	ND	0.500	"	5	"	STW	"	01/05/2024	
Sulfate	223	2.50	"	10	"	STW	"	01/09/2024	

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4A0323	JSM	01/03/2024	01/04/2024	Ua
Toluene	ND	1.00	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	87.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Dissolved Metals by EPA 200.8

Barium	36.9	1.00	ug/L	1	B4A2221	ZZZ	01/22/2024	01/22/2024	
Iron	65.3	10.0	"	"	"	ZZZ	"	"	
Magnesium	36500	10.0	"	"	"	ZZZ	"	"	
Manganese	1.99	1.00	"	"	"	ZZZ	"	"	
Potassium	6390	100	"	"	"	ZZZ	"	"	
Selenium	3.01	0.100	"	"	"	ZZZ	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

Banks 3670354

1/3/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y401045-01 (Water)
Origins Laboratory, Inc.

Dissolved Metals by EPA 200.8

Strontium	1090	10.0	ug/L	1	B4A2221	ZZZ	01/22/2024	01/22/2024	
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pH in Water by EPA 9040C

pH	7.85		pH Units	1	B4A0404	EAL	01/04/2024	01/04/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1070	5.00	uS/cm	"	"	EAL	"	"	
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Total Dissolved Solids by 2540C

Total Dissolved Solids	684	5.00	mg/L	"	B4A0330	KRM	01/03/2024	01/05/2024	
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Pace Analytical

Dissolved Gasses by RSK 175

Ethane	ND	10.0	ug/L	1	11111		01/03/2024	01/08/2024	
Methane	ND	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	

GEL Laboratories, LLC

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

Banks 3670354

1/3/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y401045-01 (Water)
GEL Laboratories, LLC

Alkalinity by SM 2320B

Alkalinity, Total as CaCO3	256	2.00	mg/L	1	2549833	JW2	01/03/2024	01/08/2024	
Bicarbonate alkalinity (CaCO3)	256	2.00	"	"	"	JW2	"	"	
Carbonate alkalinity (CaCO3)	ND	2.00	"	"	"	JW2	"	"	U

Anions by EPA 300.0

Nitrate	8.44	0.500	mg/L	5	2548947	LXA2	"	01/05/2024	H
Nitrite	ND	0.100	"	1	"	LXA2	"	"	U

Dissolved Metals by 200.8

Boron	142	15.0	ug/L	1	2555152	PRB	01/19/2024	01/22/2024	
Calcium	121000	2000	"	10	"	PRB	"	01/23/2024	
Sodium	56300	2500	"	"	"	PRB	"	"	

DRO by 8015D

Diesel Range Organics	ND	0.200	mg/L	1	2549947	RXC1	01/09/2024	01/09/2024	U
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Surrogate: o-Terphenyl 97 % 35-112 " " "

GRO by 8015D

Gasoline Range Organics	ND	0.100	mg/L	1	2550398	JEB	01/03/2024	01/09/2024	U
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Surrogate: Bromofluorobenzene 87 % 73-125 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

Banks 3670354

1/3/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y401045-01 (Water)
GEL Laboratories, LLC

Nitrate/Nitrite by EPA 353.2

Nitrogen, Nitrate/Nitrite	9.48	0.500	mg/L	25	2549758	AXH3	"	01/08/2024	
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Total Phosphorus by EPA 365.4

Phosphorus, Total as P	ND	50.0	ug/L	1	2549590	KLP1	01/08/2024	01/08/2024	U
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Origins Laboratory

Bacterial Activity Reaction Tests

Iron Related Bacteria	~9000		CFU/mL	1	11111	EHS	01/03/2023	01/13/2024	
Slime Forming Bacteria	<20		"	"	"	EHS	"	"	
Sulfate Reducing Bacteria	<5		"	"	"	EHS	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 B4A0323 - EPA 5030B (Water)

Blank (B4A0323-BLK1)

Prepared: 01/03/2024 Analyzed: 01/03/2024

Benzene	ND	1.00	ug/L							Ua
Toluene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 B4A0323 - EPA 5030B (Water)

LCS (B4A0323-BS1)

Prepared: 01/03/2024 Analyzed: 01/03/2024

Benzene	44.1	1.00	ug/L	50.0		88.3	70-130			
Toluene	46.9	1.00	"	50.0		93.7	70-130			
Ethylbenzene	45.6	1.00	"	50.0		91.1	70-130			
m,p-Xylene	88.3	2.00	"	100		88.3	70-130			
o-Xylene	40.6	1.00	"	50.0		81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 B4A0323 - EPA 5030B (Water)

Matrix Spike (B4A0323-MS1)	Source: Y401041-14			Prepared: 01/03/2024 Analyzed: 01/03/2024						
Benzene	51.3	1.00	ug/L	50.0	ND	103	70-130			
Toluene	53.7	1.00	"	50.0	0.580	106	70-130			
Ethylbenzene	52.8	1.00	"	50.0	ND	106	70-130			
m,p-Xylene	106	2.00	"	100	1.34	104	70-130			
o-Xylene	51.4	1.00	"	50.0	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5		82.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 B4A0323 - EPA 5030B (Water)

Matrix Spike Dup (B4A0323-MSD1)	Source: Y401041-14			Prepared: 01/03/2024 Analyzed: 01/03/2024						
Benzene	47.2	1.00	ug/L	50.0	ND	94.5	70-130	8.16	20	
Toluene	49.7	1.00	"	50.0	0.580	98.1	70-130	7.82	20	
Ethylbenzene	48.7	1.00	"	50.0	ND	97.5	70-130	8.02	20	
m,p-Xylene	97.2	2.00	"	100	1.34	95.8	70-130	8.44	20	
o-Xylene	46.4	1.00	"	50.0	ND	92.9	70-130	10.2	20	
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5		81.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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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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 B4A2221 - EPA 200.8 Preparation

Blank (B4A2221-BLK1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

Barium	ND	1.00	ug/L							
Iron	ND	10.0	"							
Magnesium	ND	10.0	"							
Manganese	ND	1.00	"							
Potassium	ND	100	"							
Selenium	ND	0.100	"							
Strontium	ND	10.0	"							

LCS (B4A2221-BS1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

Barium	5430	1.00	ug/L	5560	36.9	102	70-130
Iron	5660	10.0	"	5560	65.3	101	70-130
Magnesium	5460	10.0	"	5560	36500	96.3	70-130
Manganese	55.7	1.00	"	55.6	1.99	102	70-130
Potassium	5370	100	"	5560			
Selenium	56.0	0.100	"	55.6			
Strontium	569	10.0	"	556			

Matrix Spike (B4A2221-MS1)

Source: Y401045-01

Prepared: 01/22/2024 Analyzed: 01/22/2024

Barium	5700	1.00	ug/L	5560	36.9	102	70-130
Iron	5670	10.0	"	5560	65.3	101	70-130
Magnesium	41800	10.0	"	5560	36500	96.3	70-130
Manganese	58.6	1.00	"	55.6	1.99	102	70-130

Origins Laboratory, Inc.



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David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 B4A2221 - EPA 200.8 Preparation

Matrix Spike (B4A2221-MS1)		Source: Y401045-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
Potassium	12100	100	ug/L	5560	6390	104	70-130			
Selenium	61.8	0.100	"	55.6	3.01	106	70-130			
Strontium	1660	10.0	"	556	1090	103	70-130			
Matrix Spike Dup (B4A2221-MSD1)		Source: Y401045-01			Prepared: 01/22/2024 Analyzed: 01/22/2024					
Barium	5820	1.00	ug/L	5560	36.9	104	70-130	1.95	25	
Iron	5610	10.0	"	5560	65.3	99.8	70-130	1.06	25	
Magnesium	41700	10.0	"	5560	36500	95.2	70-130	0.146	25	
Manganese	58.2	1.00	"	55.6	1.99	101	70-130	0.580	25	
Potassium	11800	100	"	5560	6390	96.9	70-130	3.08	25	
Selenium	61.4	0.100	"	55.6	3.01	105	70-130	0.653	25	
Strontium	1660	10.0	"	556	1090	104	70-130	0.434	25	

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 B4A0330 - NO PREP										
Blank (B4A0330-BLK1)					Prepared: 01/03/2024 Analyzed: 01/05/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4A0330-BS1)					Prepared: 01/03/2024 Analyzed: 01/05/2024					
Total Dissolved Solids	1030	5.00	mg/L	1030		99.8	90-110			
Duplicate (B4A0330-DUP1)		Source: Y401042-01			Prepared: 01/03/2024 Analyzed: 01/05/2024					
Total Dissolved Solids	3380	5.00	mg/L		3380			0.0592	10	
Batch B4A0404 - Default Prep GenChem										
Blank (B4A0404-BLK1)					Prepared: 01/04/2024 Analyzed: 01/04/2024					
Specific Conductance (EC)	ND	5.00	uS/cm							
Duplicate (B4A0404-DUP1)		Source: Y401045-01			Prepared: 01/04/2024 Analyzed: 01/04/2024					
Specific Conductance (EC)	1080	5.00	uS/cm		1070			0.456	10	
pH	7.74		pH Units		7.85			1.41	2.51	
Batch B4A0405 - Filter .45um non acidified										
Blank (B4A0405-BLK1)					Prepared: 01/04/2024 Analyzed: 01/05/2024					
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	"							

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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 B4A0405 - Filter .45um non acidified

LCS (B4A0405-BS1)

Prepared: 01/04/2024 Analyzed: 01/05/2024

Chloride	3.90	0.250	mg/L	4.00		97.6	90-110			
Fluoride	3.78	0.100	"	4.00		94.4	90-110			
Bromide	3.89	0.100	"	4.00		97.4	90-110			
Sulfate	3.92	0.250	"	4.00		98.0	90-110			
Nitrate	3.88	0.100	"	4.00		97.0	90-110			
Nitrite	3.92	0.100	"	4.00		97.9	90-110			

Matrix Spike (B4A0405-MS1)

Source: Y401045-01

Prepared: 01/04/2024 Analyzed: 01/05/2024

Chloride	530		mg/L	500	31.4	99.7	90-110			
Fluoride	485		"	500	0.405	97.0	90-110			
Bromide	500		"	500	0.192	100	90-110			
Sulfate	731		"	500	223	102	90-110			
Nitrate	537		"	500	37.3	99.9	90-110			
Nitrite	502		"	500	0.00	100	90-110			

Matrix Spike Dup (B4A0405-MSD1)

Source: Y401045-01

Prepared: 01/04/2024 Analyzed: 01/05/2024

Chloride	536		mg/L	500	31.4	101	90-110	1.20	5	
Fluoride	490		"	500	0.405	98.0	90-110	1.07	5	
Bromide	503		"	500	0.192	101	90-110	0.501	5	
Sulfate	737		"	500	223	103	90-110	0.801	5	
Nitrate	542		"	500	37.3	101	90-110	0.994	5	
Nitrite	507		"	500	0.00	101	90-110	1.03	5	

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 Project Number: [none]
 Project: Ruby 7-J Pad 615

Dissolved Metals by 200.8 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2555152 -										
FLTB (1205626226-BLK)					Prepared: 01/19/2024 Analyzed: 01/22/2024					
Boron	ND	15.0	ug/L				-			U
Sodium	98.1	250	"				-			J
Calcium	216	200	"				-			
BLANK (1205626290-BLK)					Prepared: 01/19/2024 Analyzed: 01/23/2024					
Sodium	ND	250	ug/L				-			U
Calcium	89.8	200	"				-			J
Boron	ND	15.0	"				-			U
LCS (1205626291-BKS)					Prepared: 01/19/2024 Analyzed: 01/22/2024					
Boron	106	15.0	ug/L	100		106	85-115			
Calcium	2190	200	"	2000		109	85-115			
Sodium	2210	250	"	2000		110	85-115			
MS (1205626292 S)					Source: Y401045-01		Prepared: 01/19/2024 Analyzed: 01/23/2024			
Sodium	58800	2500	ug/L	2000	56300	0	75-125			
Boron	243	15.0	"	100	142	101	75-125			
Calcium	123000	2000	"	2000	121000	0	75-125			
MSD (1205626293 SD)					Source: Y401045-01		Prepared: 01/19/2024 Analyzed: 01/23/2024			
Sodium	56800	2500	ug/L	2000	56300	0	75-125	3.47	20	
Boron	246	15.0	"	100	142	104	75-125	1.31	20	
Calcium	119000	2000	"	2000	121000	0	75-125	3.66	20	

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David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 2549833 -										
LCS (1205617828-BKS)					Prepared: Analyzed: 01/08/2024					
Alkalinity, Total as CaCO3	50.5	2.00	mg/L	50.0		101	90-110			
DUP (1205617829 D)		Source: 650418003			Prepared: Analyzed: 01/08/2024					
Alkalinity, Total as CaCO3	198	2.00	mg/L		199		0-20	0.504	20	
Bicarbonate alkalinity (CaCO3)	198	2.00	"		199		0-20	0.504	20	
Carbonate alkalinity (CaCO3)	ND	2.00	"		<0.725		0-20	N/A	20	U
MS (1205617830 S)		Source: 650418003			Prepared: Analyzed: 01/08/2024					
Alkalinity, Total as CaCO3	248	2.00	mg/L	50.0	199	97	80-120			

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 Project: Ruby 7-J Pad 615

Anions by EPA 300.0 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2548947 -										
BLANK (1205616651-BLK)					Prepared: Analyzed: 01/05/2024					
Nitrite	ND	0.100	mg/L				-			U
Nitrate	ND	0.100	"				-			U
LCS (1205616652-BKS)					Prepared: Analyzed: 01/05/2024					
Nitrate	2.49	0.100	mg/L	2.50		99.5	90-110			
Nitrite	2.51	0.100	"	2.50		101	90-110			
DUP (1205616655 D)		Source: 650583017			Prepared: Analyzed: 01/05/2024					
Nitrite	ND	0.100	mg/L		<0.0330		0-20	N/A	20	U
Nitrate	ND	0.100	"		<0.0330		0-20	N/A	20	U
PS (1205616656 S)		Source: 650583017			Prepared: Analyzed: 01/05/2024					
Nitrate	0.620	0.100	mg/L	2.50		24.8	90-110			
Nitrite	2.50	0.100	"	2.50		100	90-110			

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David Castro
 Project Number: [none]
 Project: Ruby 7-J Pad 615

DRO by 8015D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2549947 - SW846 3535A										
BLANK (1205618062-BLK)					Prepared: 01/09/2024 Analyzed: 01/09/2024					
Diesel Range Organics	ND	0.200	mg/L				-			U
Surrogate: o-Terphenyl	0.0191		"	0.0200		96	35-112			
LCS (1205618063-BKS)					Prepared: 01/09/2024 Analyzed: 01/09/2024					
Diesel Range Organics	0.902	0.200	mg/L	1.00		90	36-109			
Surrogate: o-Terphenyl	0.0183		"	0.0200		91	35-112			
MS (1205618064 S)					Source: 650950008 Prepared: 01/09/2024 Analyzed: 01/10/2024					
Diesel Range Organics	0.982	0.200	mg/L	1.00	0.125	86	35-102			
Surrogate: o-Terphenyl	0.0191		"	0.0200	0.0187	95	35-112			
MSD (1205618065 SD)					Source: 650950008 Prepared: 01/09/2024 Analyzed: 01/10/2024					
Diesel Range Organics	1.61	0.200	mg/L	1.00	0.125	148	35-102	48	20	
Surrogate: o-Terphenyl	0.0194		"	0.0200	0.0187	97	35-112			

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 Project Number: [none]
 Project: Ruby 7-J Pad 615

GRO by 8015D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2550398 -										
LCS (1205618731-BKS)					Prepared: Analyzed: 01/09/2024					
Gasoline Range Organics	0.573	0.100	mg/L	0.500		115	84-116			
Surrogate: Bromofluorobenzene	0.0502		"	0.0500		100	73-125			
BLANK (1205618732-BLK)					Prepared: Analyzed: 01/09/2024					
Gasoline Range Organics	ND	0.100	mg/L				-			U
Surrogate: Bromofluorobenzene	0.0520		"	0.0500		104	73-125			
PS (1205618733 S)					Source: Y401045-01 Prepared: Analyzed: 01/09/2024					
Gasoline Range Organics	0.508	0.100	mg/L	0.500		102	66-128			
Surrogate: Bromofluorobenzene	0.0481		"	0.0500		96	73-125			
PSD (1205618734 SD)					Source: Y401045-01 Prepared: Analyzed: 01/09/2024					
Gasoline Range Organics	0.544	0.100	mg/L	0.500		109	66-128	7	30	
Surrogate: Bromofluorobenzene	0.0549		"	0.0500		110	73-125			

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 Project: Ruby 7-J Pad 615

Nitrate/Nitrite by EPA 353.2 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2549758 -										
BLANK (1205617665-BLK)					Prepared: Analyzed: 01/08/2024					
Nitrogen, Nitrate/Nitrite	ND	0.0200	mg/L				-			U
LCS (1205617666-BKS)					Prepared: Analyzed: 01/08/2024					
Nitrogen, Nitrate/Nitrite	1.02	0.0200	mg/L	1.00		102	90-110			
DUP (1205617667 D)					Source: Y401045-01 Prepared: Analyzed: 01/08/2024					
Nitrogen, Nitrate/Nitrite	9.40	0.500	mg/L		9.48		0-20	0.795	20	
PS (1205617668 S)					Source: Y401045-01 Prepared: Analyzed: 01/08/2024					
Nitrogen, Nitrate/Nitrite	34.3	0.500	mg/L	1.00		99.1	90-110			

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 Project Number: [none]
 Project: Ruby 7-J Pad 615

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 2549590 - EPA 365.4 Prep										
BLANK (1205617372-BLK)					Prepared: 01/08/2024 Analyzed: 01/08/2024					
Phosphorus, Total as P	ND	50.0	ug/L				-			U
LCS (1205617373-BKS)					Prepared: 01/08/2024 Analyzed: 01/08/2024					
Phosphorus, Total as P	1080	50.0	ug/L	1000		108	83-122			
DUP (1205617374 D)					Source: 649505002 Prepared: 01/08/2024 Analyzed: 01/08/2024					
Phosphorus, Total as P	ND	50.0	ug/L		<20.0		0-35	N/A	35	U
MS (1205617375 S)					Source: 649505002 Prepared: 01/08/2024 Analyzed: 01/08/2024					
Phosphorus, Total as P	725	50.0	ug/L	1000	<20.0	72.5	66-137			

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David Castro
Project Number: [none]
Project: Ruby 7-J Pad 615

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

J Greater than the detection limit but less than the reporting limit

H Holding time exceeded

<5 <5

<20 <20

~9000 ~9000

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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Jordan A. Bynon, Project Manager