



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

August 09, 2023

Certified Mail 7022 1670 0001 4159 3912

Roy Dow
602 10th Avenue
Ackley, IA 50601

**RE: CECMC Rule 615: Groundwater Sampling Results
Subsequent Water Well Sampling: Bayswater – Blehm 18-I Pad
Water Well Receipt #: 3671342**

Dear Roy,

On July 28, 2023, Eagle Environmental Consulting LLC (EAGLE) collected a subsequent groundwater sample from water well receipt number 3671342 on your property located in SWSE, Section 18, 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 Blehm 18-1 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 3671342, 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 the pre-drilling baseline sample collected on November 3, 2021 as well as Colorado Primary Drinking Water Standards (5 CCR 1002-11) and National Safe Drinking Water Act Drinking Water Standards (40 CFR 141). If results were to exceed the recommended limits, a notice of the results would have been immediately provided to you. 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 baseline 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

A handwritten signature in blue ink, appearing to read 'David Castro', with a stylized flourish extending to the right.

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://cogcc.state.co.us/documents/library/Presentations/General/waterwellbooklet.pdf>

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
DOW 3671342
615 SUBSEQUENT SAMPLE 07/28/2023
SW¼ SE¼ SEC.18 T7N R66W 6PM
WELD COUNTY, COLORADO
COGCC FACILITY ID 752740
BLEHM 18-I PAD

Method	Parameter	Unit	11/03/2021 Baseline Sample Result	07/28/2023 Subsequent Sample Result	Colorado Primary Drinking Water Standards (5 CCR 1002-11)	National Drinking Water Standards (40 CFR 141)
SW8260D	Benzene	ug/L	<1.0	<1.00	5	5
SW8260D	Toluene	ug/L	<1.0	<1.00	1,000	1,000
SW8260D	Ethylbenzene	ug/L	<1.0	<1.00	700	700
SW8260D	Xylenes, Total	ug/L	<1.0	<1.00	10,000	10,000
RSK 175	Methane	ug/L	<0.80	<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	<0.050	<0.100	-	-
8015D	TPH-DRO	mg/L	<0.20	<0.192	-	-
EPA 200.8	Barium	ug/L	68.5	39.4	2,000	2,000
EPA 200.8	Boron	ug/L	<80	42.6	-	-
EPA 200.8	Calcium	ug/L	71,800	46,900	-	-
EPA 200.8	Iron	ug/L	<40	<11.1	-	300
EPA 200.8	Magnesium	ug/L	29,500	16,100	-	-
EPA 200.8	Manganese	ug/L	2.5	<1.11	-	50
EPA 200.8	Potassium	ug/L	1,650	1,330	-	-
EPA 200.8	Selenium	ug/L	1.6	0.264	50	50
EPA 200.8	Sodium	ug/L	27,200	14,200	-	-
EPA 200.8	Strontium	ug/L	721	431	-	-
SM2320B	Alkalinity, Total as CaCO3	mg/L	175	129	-	-
SM2320B	Alkalinity, Bicarbonate as CaCO3	mg/L	175	129	-	-
SM2320B	Alkalinity, Carbonate as CaCO3	mg/L	<5.0	<2.00	-	-
EPA 300.0	Bromide	mg/L	0.087	<0.100	-	-
EPA 300.0	Chloride	mg/L	8.5	4.59	-	250
EPA 300.0	Fluoride	mg/L	0.48	0.442	4	4
EPA 300.0	Nitrate	mg/L	0.15	<0.100	10	10
EPA 300.0	Nitrite	mg/L	<0.0040	<0.100	1	1
EPA 300.0	Sulfate	mg/L	152	104	-	250
EPA 353.2	Nitrogen, Nitrate/Nitrite	mg/L	NA	<0.0200	10	-
EPA 365.4	Phosphorus, Total	mg/L	0.020	<0.0500	-	-

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DOW 3671342
615 SUBSEQUENT SAMPLE 07/28/2023
SW¼ SE¼ SEC.18 T7N R66W 6PM
WELD COUNTY, COLORADO
COGCC FACILITY ID 752740
BLEHM 18-I PAD

Method	Parameter	Unit	11/03/2021 Baseline Sample Result	07/28/2023 Subsequent Sample Result	Colorado Primary Drinking Water Standards (5 CCR 1002-11)	National Drinking Water Standards (40 CFR 141)
EPA 9040C	pH	SU	7.64	7.99	-	-
9050A MOD	Specific Conductance	uS/cm	664	751	-	-
SM2540C	Total Dissolved Solids	mg/L	409	258	-	500
BART	Bacteria, Iron Related	CFU/mL	9,000	140,000	-	-
BART	Bacteria, Slime Forming	CFU/mL	440,000	13,000	-	-
BART	Bacteria, Sulfate Reducing	CFU/mL	<200	1,400	-	-
Field	Temperature	C	19.7	19.72	-	-
Field	pH	SU	7.53	7.59	-	-
Field	Specific Conductance	uS/cm	652	423	-	-
Field	Oxidation-Reduction Potential	mV	unknown	126.4	-	-
Field	Dissolved Oxygen	mg/L	0.41	2.92	-	-
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics ug/L = micrograms per liter mg/L = milligrams per liter C = Celsius uS/cm = microsiemens per centimeter CFU/mL = colony forming unit per milliliter NA = Not Analyzed SU = standard unit mV = millivolt Values presented with a less than symbol (<) indicate concentrations were not observed at or above laboratory reporting limits.						



August 09, 2023

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bayswater - Blehm 18-I Pad 615
Subsequent 1**

Project Number - [none]

Attached are your analytical results for Bayswater - Blehm 18-I Pad 615 Subsequent 1 received by Origins Laboratory, Inc. July 28, 2023. This project is associated with Origins project number Y307649-01.

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: Bayswater - Blehm 18-I Pad 615
Subsequent 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Dow 3671342	Y307649-01	Water	July 28, 2023 11:45	07/28/2023 15:44

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: Bayswater - Blehm 18-I Pad 615
Subsequent 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: W007049

Client: Eagle

Client Project ID: Blehm 18-I Pad

Checklist Completed by: TSN/CHS

Shipped Via: HP

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/28/23

Airbill #: N/A

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

Cooler Number/Temperature: 1, 21 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>NO2, NO3, BAR</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>NC</u>
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 8/1/23

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: Bayswater - Blehm 18-I Pad 615
Subsequent 1

Dow 3671342

7/28/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y307649-01 (Water)
Origins Laboratory, Inc.

Anions by IC 300.0

Chloride	4.59	0.250	mg/L	1	B3G2728	ACC	07/28/2023	08/02/2023	
Fluoride	0.442	0.100	"	"	"	ACC	"	"	
Bromide	ND	0.100	"	"	"	ACC	"	"	
Sulfate	104	1.25	"	5	"	ACC	"	08/02/2023	
Nitrate	ND	0.100	"	1	"	ACC	"	08/02/2023	
Nitrite	ND	0.100	"	"	"	ACC	"	"	

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B3G3109	JSM	07/31/2023	07/31/2023	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	93.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

Dissolved Metals by EPA 200.8

Barium	39.4	11.1	ug/L	10	B3G3104	CIH	07/31/2023	08/02/2023	
Boron	42.6	11.1	"	1	"	CIH	"	08/02/2023	
Calcium	46900	5560	"	10	"	CIH	"	08/02/2023	
Iron	ND	11.1	"	1	"	CIH	"	08/02/2023	

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: Bayswater - Blehm 18-I Pad 615
Subsequent 1

Dow 3671342

7/28/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y307649-01 (Water)
Origins Laboratory, Inc.

Dissolved Metals by EPA 200.8

Magnesium	16100	111	ug/L	10	B3G3104	CIH	07/31/2023	08/02/2023
Manganese	ND	1.11	"	1	"	CIH	"	08/02/2023
Potassium	1330	1110	"	10	"	CIH	"	08/02/2023
Selenium	0.264	0.111	"	1	"	CIH	"	08/02/2023
Sodium	14200	11100	"	100	"	CIH	"	08/02/2023
Strontium	431	111	"	10	"	CIH	"	08/02/2023

pH in Water by EPA 9040C

pH	7.99		pH Units	1	B3G2801	HJD	07/28/2023	07/29/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	751	5.00	uS/cm	"	"	HJD	"	"
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Total Dissolved Solids by 2540C

Total Dissolved Solids	258	5.00	mg/L	"	B3H0225	EC	08/02/2023	08/04/2023
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Pace Analytical

Dissolved Gasses by RSK 175

Ethane	ND	10.0	ug/L	1	11111		07/28/2023	08/04/2023
Methane	ND	10.0	"	"	"		"	"

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Bayswater - Blehm 18-I Pad 615
Subsequent 1

Dow 3671342

7/28/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y307649-01 (Water)
Pace Analytical

Dissolved Gasses by RSK 175

n-Propane	ND	10.0	ug/L	1	11111		07/28/2023	08/04/2023	
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GEL Laboratories, LLC

Alkalinity by SM 2320B

Alkalinity, Total as CaCO ₃	129	2.00	mg/L	1	2469205	JW2	"	08/01/2023	
Bicarbonate alkalinity (CaCO ₃)	129	2.00	"	"	"	JW2	"	"	
Carbonate alkalinity (CaCO ₃)	ND	2.00	"	"	"	JW2	"	"	U

DRO by 8015D

Diesel Range Organics	ND	0.192	mg/L	1	2470106	RXC1	08/03/2023	08/03/2023	U
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Surrogate: o-Terphenyl	82 %	37-112			"	"	"		
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GRO by 8015D

Gasoline Range Organics	ND	0.100	mg/L	1	2469807	JEB	07/28/2023	08/03/2023	U
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Surrogate: Bromofluorobenzene	95 %	72-129			"	"	"		
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Nitrate/Nitrite by EPA 353.2

Nitrogen, Nitrate/Nitrite	ND	0.0200	mg/L	1	2468272	AXH3	"	08/02/2023	U
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Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Bayswater - Blehm 18-I Pad 615
Subsequent 1

Dow 3671342

7/28/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y307649-01 (Water)
GEL Laboratories, LLC

Total Phosphorus by EPA 365.4

Phosphorus, Total as P	ND	0.0500	mg/L	1	2469253	AXH3	08/02/2023	08/03/2023	U
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Origins Laboratory

Bacterial Activity Reaction Tests

Iron Related Bacteria	~14000 0	CFU/mL	1	11111	TSH	07/28/2023	08/03/2023
Slime Forming Bacteria	~13000	"	"	"	TSH	"	"
Sulfate Reducing Bacteria	~1400	"	"	"	TSH	"	"

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

David Castro
Project Number: [none]
Project: Bayswater - Blehm 18-I Pad 615
Subsequent 1

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 B3G3109 - EPA 5030B (Water)

Blank (B3G3109-BLK1)

Prepared: 07/31/2023 Analyzed: 07/31/2023

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	60		"	62.5	95.7		70-130			
Surrogate: Toluene-d8	65		"	62.5	104		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		70-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
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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
Batch B3G3109 - EPA 5030B (Water)										
LCS (B3G3109-BS1)					Prepared: 07/31/2023 Analyzed: 07/31/2023					
Benzene	54.9	1.00	ug/L	50.0		110	70-130			
Toluene	54.9	1.00	"	50.0		110	70-130			
Ethylbenzene	54.4	1.00	"	50.0		109	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
o-Xylene	48.7	1.00	"	50.0		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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David Castro
Project Number: [none]
Project: Bayswater - Blehm 18-I Pad 615
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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 B3G3109 - EPA 5030B (Water)

Matrix Spike (B3G3109-MS1)		Source: Y307631-01			Prepared: 07/31/2023 Analyzed: 07/31/2023					
Benzene	176	1.00	ug/L	50.0	0.990	350	70-130			QM-07
Toluene	43.8	1.00	"	50.0	ND	87.6	70-130			
Ethylbenzene	44.1	1.00	"	50.0	ND	88.2	70-130			
m,p-Xylene	92.2	2.00	"	100	2.60	89.6	70-130			
o-Xylene	39.2	1.00	"	50.0	ND	78.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	70-130			
Surrogate: Toluene-d8	73		"	62.5		117	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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David Castro
Project Number: [none]
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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 B3G3109 - EPA 5030B (Water)

Matrix Spike Dup (B3G3109-MSD1)		Source: Y307631-01			Prepared: 07/31/2023 Analyzed: 07/31/2023					
Benzene	143	1.00	ug/L	50.0	0.990	284	70-130	20.9	20	QM-07
Toluene	56.0	1.00	"	50.0	ND	112	70-130	24.4	20	QR-02
Ethylbenzene	55.4	1.00	"	50.0	ND	111	70-130	22.8	20	QR-02
m,p-Xylene	116	2.00	"	100	2.60	113	70-130	22.5	20	QR-02
o-Xylene	50.4	1.00	"	50.0	ND	101	70-130	25.0	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	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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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 B3G3104 - EPA 200.8 Preparation

Blank (B3G3104-BLK1)

Prepared: 07/31/2023 Analyzed: 08/02/2023

Barium	ND	1.00	ug/L
Boron	ND	10.0	"
Calcium	ND	500	"
Iron	ND	10.0	"
Magnesium	ND	10.0	"
Manganese	ND	1.00	"
Potassium	ND	100	"
Selenium	ND	0.100	"
Sodium	ND	100	"
Strontium	ND	10.0	"

LCS (B3G3104-BS1)

Prepared: 07/31/2023 Analyzed: 08/02/2023

Barium	5440	1.00	ug/L	5000	109	85-115
Boron	46.5	10.0	"	50.0	92.9	85-115
Calcium	5110	500	"	5000	102	85-115
Iron	5540	10.0	"	5000	111	85-115
Magnesium	4940	10.0	"	5000	98.9	85-115
Manganese	53.7	1.00	"	50.0	107	85-115
Potassium	5050	100	"	5000	101	85-115
Selenium	52.3	0.100	"	50.0	105	85-115
Sodium	4850	100	"	5000	97.0	85-115
Strontium	539	10.0	"	500	108	85-115

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Subsequent 1

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
Batch B3G3104 - EPA 200.8 Preparation										
LCS (B3G3104-BS1)					Prepared: 07/31/2023 Analyzed: 08/02/2023					
Matrix Spike (B3G3104-MS1)					Source: Y307638-02		Prepared: 07/31/2023 Analyzed: 08/02/2023			
Barium	7600	55.6	ug/L	5560	1030	118	70-130			
Boron	8770	556	"	55.6	10500	NR	70-130			QM-02
Calcium	311000	27800	"	5560	293000	327	70-130			QM-02
Iron	26700	556	"	5560	18100	155	70-130			QM-02
Magnesium	65200	556	"	5560	56900	149	70-130			QM-02
Manganese	3710	55.6	"	55.6	3340	652	70-130			QM-02
Potassium	23400	5560	"	5560	16800	119	70-130			
Selenium	65.9	5.56	"	55.6	ND	119	70-130			
Sodium	1880000	5560	"	5560	1810000	NR	70-130			QM-02
Strontium	11900	556	"	556	10700	219	70-130			QM-02
Matrix Spike Dup (B3G3104-MSD1)					Source: Y307638-02		Prepared: 07/31/2023 Analyzed: 08/02/2023			
Barium	6970	55.6	ug/L	5560	1030	107	70-130	8.63	25	
Boron	8560	556	"	55.6	10500	NR	70-130	2.40	25	QM-02
Calcium	286000	27800	"	5560	293000	NR	70-130	8.17	25	QM-02
Iron	24300	556	"	5560	18100	112	70-130	9.47	25	
Magnesium	59700	556	"	5560	56900	50.5	70-130	8.78	25	QM-02
Manganese	3390	55.6	"	55.6	3340	83.3	70-130	8.91	25	
Potassium	21900	5560	"	5560	16800	91.3	70-130	6.78	25	
Selenium	57.2	5.56	"	55.6	ND	103	70-130	14.2	25	
Sodium	1720000	5560	"	5560	1810000	NR	70-130	8.76	25	QM-02
Strontium	11100	556	"	556	10700	77.9	70-130	6.80	25	

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Subsequent 1

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 B3G2728 - Filter .45um non acidified										
Blank (B3G2728-BLK1)					Prepared: 07/27/2023 Analyzed: 08/02/2023					
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 (B3G2728-BS1)					Prepared: 07/27/2023 Analyzed: 08/02/2023					
Chloride	4.04	0.250	mg/L	4.00		101	90-110			
Fluoride	4.01	0.100	"	4.00		100	90-110			
Bromide	4.00	0.100	"	4.00		100	90-110			
Sulfate	3.95	0.250	"	4.00		98.6	90-110			
Nitrate	4.07	0.100	"	4.00		102	90-110			
Nitrite	ND	0.100	"	4.00			90-110			
Matrix Spike (B3G2728-MS1)					Source: Y307609-05		Prepared: 07/27/2023 Analyzed: 08/02/2023			
Chloride	840		mg/L	500	342	99.6	90-110			
Fluoride	512		"	500	1.10	102	90-110			
Bromide	381		"	500	4.34	75.3	90-110			
Sulfate	4780		"	500	4520	51.5	90-110			QM-02
Nitrate	553		"	500	57.5	99.1	90-110			
Nitrite	0.00		"	500	0.00		90-110			
Matrix Spike Dup (B3G2728-MSD1)					Source: Y307609-05		Prepared: 07/27/2023 Analyzed: 08/02/2023			
Chloride	815		mg/L	500	342	94.6	90-110	3.02	5	
Fluoride	491		"	500	1.10	97.9	90-110	4.36	5	
Bromide	368		"	500	4.34	72.8	90-110	3.40	5	

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Subsequent 1

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 B3G2728 - Filter .45um non acidified										
Matrix Spike Dup (B3G2728-MSD1)			Source: Y307609-05		Prepared: 07/27/2023 Analyzed: 08/02/2023					
Sulfate	4470		mg/L	500	4520	NR	90-110	6.66	5	QM-02
Nitrate	533		"	500	57.5	95.1	90-110	3.74	5	
Nitrite	0.00		"	500	0.00		90-110		5	
Batch B3G2801 - Default Prep GenChem										
Blank (B3G2801-BLK1)			Prepared: 07/28/2023 Analyzed: 08/01/2023							
Specific Conductance (EC)	ND	5.00	uS/cm							
Duplicate (B3G2801-DUP1)			Source: Y307647-01		Prepared: 07/28/2023 Analyzed: 07/29/2023					
pH	8.77		pH Units		8.73			0.457	2.51	
Specific Conductance (EC)	731	5.00	uS/cm		738			0.967	10	
Batch B3H0225 - NO PREP										
Blank (B3H0225-BLK1)			Prepared: 08/02/2023 Analyzed: 08/04/2023							
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B3H0225-BS1)			Prepared: 08/02/2023 Analyzed: 08/04/2023							
Total Dissolved Solids	979	5.00	mg/L	999		98.0	90-110			
Duplicate (B3H0225-DUP1)			Source: Y307647-01		Prepared: 08/02/2023 Analyzed: 08/04/2023					
Total Dissolved Solids	470	5.00	mg/L		471			0.213	10	

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Subsequent 1

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 2469205 -										
LCS (1205475013-BKS)					Prepared: Analyzed: 08/01/2023					
Alkalinity, Total as CaCO ₃	50.5	2.00	mg/L	50.0		101	90-110			
DUP (1205475014 D)					Source: 631400003 Prepared: Analyzed: 08/01/2023					
Bicarbonate alkalinity (CaCO ₃)	227	2.00	mg/L		225		0-20	0.664	20	
Carbonate alkalinity (CaCO ₃)	ND	2.00	"		<0.725		0-20	0	20	U
Alkalinity, Total as CaCO ₃	227	2.00	"		225		0-20	0.664	20	
MS (1205475015 S)					Source: 631400003 Prepared: Analyzed: 08/01/2023					
Alkalinity, Total as CaCO ₃	276	2.00	mg/L	50.0	225	0	80-120			

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Project: Bayswater - Blehm 18-I Pad 615
Subsequent 1

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 2470106 - SW846 3535A										
BLANK (1205476785-BLK)					Prepared: 08/03/2023 Analyzed: 08/03/2023					
Diesel Range Organics	ND	0.200	mg/L				-			U
Surrogate: o-Terphenyl	0.0149		"	0.0200		75	37-112			
LCS (1205476786-BKS)					Prepared: 08/03/2023 Analyzed: 08/03/2023					
Diesel Range Organics	0.790	0.200	mg/L	1.00		79	40-107			
Surrogate: o-Terphenyl	0.0171		"	0.0200		86	37-112			
LCSD (1205476787-BKSD)					Prepared: 08/03/2023 Analyzed: 08/03/2023					
Diesel Range Organics	0.769	0.200	mg/L	1.00		77	40-107	3	32	
Surrogate: o-Terphenyl	0.0177		"	0.0200		88	37-112			

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Project: Bayswater - Blehm 18-I Pad 615
Subsequent 1

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 2469807 -										
LCS (1205476150-BKS)					Prepared: Analyzed: 08/03/2023					
Gasoline Range Organics	0.478	0.100	mg/L	0.500		96	80-120			
Surrogate: Bromofluorobenzene	0.0488		"	0.0500		98	72-129			
BLANK (1205476151-BLK)					Prepared: Analyzed: 08/03/2023					
Gasoline Range Organics	ND	0.100	mg/L				-			U
Surrogate: Bromofluorobenzene	0.0507		"	0.0500		101	72-129			
PS (1205476152 S)					Source: Y307649-01 Prepared: Analyzed: 08/03/2023					
Gasoline Range Organics	0.505	0.100	mg/L	0.500		101	63-131			
Surrogate: Bromofluorobenzene	0.0504		"	0.0500		101	72-129			
PSD (1205476153 SD)					Source: Y307649-01 Prepared: Analyzed: 08/03/2023					
Gasoline Range Organics	0.521	0.100	mg/L	0.500		104	63-131	3	30	
Surrogate: Bromofluorobenzene	0.0507		"	0.0500		101	72-129			

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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 2468272 -										
BLANK (1205473183-BLK)					Prepared: Analyzed: 08/02/2023					
Nitrogen, Nitrate/Nitrite	ND	0.0200	mg/L				-			U
LCS (1205473184-BKS)					Prepared: Analyzed: 08/02/2023					
Nitrogen, Nitrate/Nitrite	1.03	0.0200	mg/L	1.00		103	90-110			
DUP (1205473185 D)					Source: 631015001 Prepared: Analyzed: 08/02/2023					
Nitrogen, Nitrate/Nitrite	ND	0.100	mg/L		<0.0350		0-20	18.7	20	U
PS (1205473186 S)					Source: 631015001 Prepared: Analyzed: 08/02/2023					
Nitrogen, Nitrate/Nitrite	5.20	0.100	mg/L	1.00		104	90-110			

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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 2469253 - EPA 365.4 Prep										
BLANK (1205475036-BLK)					Prepared: 08/02/2023 Analyzed: 08/03/2023					
Phosphorus, Total as P	ND	0.0500	mg/L				-			U
LCS (1205475037-BKS)					Prepared: 08/02/2023 Analyzed: 08/03/2023					
Phosphorus, Total as P	1.04	0.0500	mg/L	1.00		104	80-123			
DUP (1205475038 D)					Prepared: 08/02/2023 Analyzed: 08/03/2023					
Phosphorus, Total as P	0.154	0.0500	mg/L		0.106		0-36	36.9	36	
MS (1205475039 S)					Prepared: 08/02/2023 Analyzed: 08/03/2023					
Phosphorus, Total as P	1.15	0.0500	mg/L	1.00	0.106	104	66-140			

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David Castro

Project Number: [none]

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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.

~140000 ~140000

~1400 ~1400

~13000 ~13000

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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