



**Division of Environmental Testing**

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

May 24, 2024

1301 Academy St.  
Fort Collins, CO 80525  
800-288-2657  
lglazier@cgrs.com

**Project Manager :** Lauren Glazier  
**Project Name :** Western Operating 909J 2024  
**Project Number :** 28158

Attached are the analytical results for Western Operating 909J 2024 28158 received by Elevation Diagnostics, Division of Environmental Testing on May 02, 2024. This is associated with Elevation's number AA07647 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Reichel  
Laboratory Director  
CSO,CCO

# Chain of Custody Form

# Elevation Diagnostics

2115 North Scranton Street Suite 3040A Aurora, CO 80043  
800.440.5184

Client: CGRS, INC  
 Address: 1301 ACADEMY CT  
 City/State/ZIP: FORT COLLINS / CO / 80525  
 Phone: 315-657-4720  
 Project Contact: LGLAZIER@CGRS.COM

Project Name/Number: WESTERN OPERATING 909J 2024 / #2815 0  
 Project Location: \_\_\_\_\_  
 Collector Name: \_\_\_\_\_

Sample ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Interim report requested				
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Other	ECMC Rule 909J							Yes	No		
1	KNUTZEN 1,2,3	5/1/2024 <sup>①</sup>	8:30 am <sup>①</sup>	12	6	5	1		✓			✓									Notes	ECMC FACILITY ID#
2	KENNEDY J	5/1/2024	9:15 am	12 <sup>②</sup>	6	5	1		✓			✓										771165
3	XENIA	5/1/2024	10:30 am	12 <sup>②</sup>	6	5	1		✓			✓										234842
4																						770984
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished By: [Signature]  
 Date/Time: 5-1-24 1:30

Relinquished By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Scan to Deliver Samples

Lab Use Only  
 Observed Temperature Upon Receipt: 7.5°C  
 Corrected Temperature Upon Receipt: 8.8°C  
 Thermometer #: EDVEQ248  
 Correction Factor: +1.3°C

Samples Intact:  Yes  No  
 pH Checked:  Yes  No  
 pH Adjusted:  Yes  No  
 Name/Lot Number of Adjustment: \_\_\_\_\_  
 Lot/EQM Number: 2024-05-02-004  
205423



<sup>①</sup> collection date and time pulled from sample containers SAS.2.2024

<sup>②</sup> samples 2 + 3 came with 3 extra vials, unlabeled

EFOR-008.004



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**Report Date :** 5/24/2024

**Report Time :** 10:37

**FINAL RESULTS REPORT**

**Project Manager:** Lauren Glazier

**Project Name:** Western Operating 909J 2024 **Project Number:** 28158

Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name	Analysis Start	Recovery					
<b>AA07647-1</b>	Xenia	<b>Collected :</b> 05/01/2024	10:30				
Anions - Bromide		05/15/2024	09:45	5.00	9.7694	mg/L	0.1 EPA 300.0
Anions - Chloride		05/15/2024	09:45	501.00	1236.5576	mg/L	0.2 EPA 300.0
Anions - Fluoride		05/15/2024	09:45	5.00	4.5172	mg/L	0.1 EPA 300.0
Anions - Nitrate		05/15/2024	09:45	5.00	<0.5 - RL1	mg/L	0.5 EPA 300.0
Anions - Nitrite		05/15/2024	09:45	5.00	<0.5 - RL1	mg/L	0.5 EPA 300.0
Anions - Sulfate		05/15/2024	09:45	5.00	5.6940	mg/L	0.2 EPA 300.0
Bicarbonate Alkalinity		05/03/2024	14:23		1291.49	mg/L	SM 2320B
Carbonate Alkalinity		05/03/2024	14:04		0	mg/L	SM 2320B
Conductivity		05/02/2024	15:04		5360	µS/cm	20 EPA 9050A & 120.1
Nitrate as Nitrogen		05/06/2024	14:35		<0.1129		
Nitrate, Anions		05/06/2024	14:35	5.00	<0.5		
Nitrite as Nitrogen		05/06/2024	14:35		<0.1522		
Nitrite, Anions		05/06/2024	14:35	5.00	<0.5		
pH, Water Temperature		05/02/2024	15:01		18.7	°C	
pH, Water		05/02/2024	15:01		7.91 - H1	S.U.	0.01 EPA9040C, EPA150.1
Sum of Nitrate and Nitrite as Nitrogen		05/06/2024	14:35		<0.1522		
Total Alkalinity		05/03/2024	13:39		1291.49	mg/L	SM 2320B
Total Dissolved Solids		05/15/2024	09:12		3222	mg/L	10.00 SM2540C, EPA160.1
Total Suspended Solids		05/06/2024	17:34		31	mg/L	4.00 SM2540D, EPA160.2
<b>AA07647-2</b>	Xenia	<b>Collected :</b> 05/01/2024	10:30				
Total Metals, Aqueous - Barium		05/09/2024	09:40	10.00	576.717	µg/L	0.283 EPA3010A&3005A
Total Metals, Aqueous - Boron		05/09/2024	09:40	10.00	2847.450	µg/L	10.000 EPA3010A&3005A
Total Metals, Aqueous - Calcium		05/09/2024	09:40	100.00	22106.237	µg/L	20.000 EPA3010A&3005A
Total Metals, Aqueous - Iron		05/09/2024	09:40	10.00	667.196	µg/L	10.000 EPA3010A&3005A
Total Metals, Aqueous - Magnesium		05/09/2024	09:40	10.00	1703.870	µg/L	20.000 EPA3010A&3005A
Total Metals, Aqueous - Manganese		05/09/2024	09:40	10.00	17.323	µg/L	0.500 EPA3010A&3005A
Total Metals, Aqueous - Phosphorus		05/09/2024	09:40	10.00	<100.000 - RL1	µg/L	100.000 EPA3010A&3005A
Total Metals, Aqueous - Potassium		05/09/2024	09:40	100.00	9411.803	µg/L	25.000 EPA3010A&3005A
Total Metals, Aqueous - Selenium		05/09/2024	09:40	10.00	<9.850 - RL1	µg/L	9.850 EPA3010A&3005A
Total Metals, Aqueous - Sodium		05/09/2024	09:40	10,000.00	1431309.151	µg/L	20.000 EPA3010A&3005A
Total Metals, Aqueous - Strontium		05/09/2024	09:40	10.00	714.373	µg/L	0.250 EPA3010A&3005A
<b>AA07647-3</b>	Xenia	<b>Collected :</b> 05/01/2024	10:30				
DRO/ORO, Aqueous - DRO		05/06/2024	10:30		16.287	mg/L	0.613 A 8015D, TCEQ Method TX1
DRO/ORO, Aqueous - ORO		05/06/2024	10:30		Not Detected	mg/L	12.264 A 8015D, TCEQ Method TX1
Gasoline Range Organics, Aqueous		05/13/2024	19:18	10.00	7482.15	µg/L	225.80 EPA 8260
Volatile Organic Compounds - Benzene		05/08/2024	09:19	10.00	73.61	µg/L	0.72 EPA 8260d
Volatile Organic Compounds - Ethylbenzene		05/08/2024	09:19	100.00	81.23	µg/L	0.78 EPA 8260d
Volatile Organic Compounds - m&p-Xylene		05/08/2024	09:19	100.00	367.05	µg/L	1.81 EPA 8260d
Volatile Organic Compounds - Naphthalene		05/08/2024	09:19	10.00	58.67	µg/L	1.00 EPA 8260d
Volatile Organic Compounds - o-Xylene		05/08/2024	09:19	100.00	106.73	µg/L	0.99 EPA 8260d
Volatile Organic Compounds - Toluene		05/08/2024	09:19	100.00	250.57	µg/L	0.70 EPA 8260d
Volatile Organic Compounds - Xylenes, total		05/08/2024	09:19	100.00	473.78	µg/L	2.80 EPA 8260d
<b>AA07647-4</b>	Xenia	<b>Collected :</b> 05/01/2024	10:30				
Radium-226		05/21/2024	10:27		1.56 - I	pCi/L	1.00 EPA 903.1



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Sample ID	Customer ID	Collected	Dilution	Result	Units	RL	Method Ref.
Analyte Name		Analysis Start					Recovery
Radium-228		05/21/2024	10:27	4.68 - I	pCi/L	3.00	EPA 904.0

**QC Report**

ALKALINITY-2875		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07643	1341.94		mg CaCO3/L		1348.00			0.45057	
LCS AA07684	39.35		mg CaCO3/L	40		98.4			
LCS AA07685	976.69		mg CaCO3/L	1000		97.7			
CONDUCTANCE EPA-2868		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07644	5080	20	µS/cm		5090			0.19666	-5 - 5
LCS AA07664	26100	20	µS/cm	25000		104	80 -		
LCS AA07665	25800	20	µS/cm	25000		103	80 -		
GRO-2981		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07644	11881.87		µg/L		2553.50			9.2515	
Matrix Spike AA07644	13034.43		µg/L	10750	2553.50	97.5			
MB AA07917	<225.80		µg/L						
LCS AA07918	869.80		µg/L	1075		80.9			
LCS AA07919	977.78		µg/L	1075		91.0			
PH_W-2870		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
DUP AA07644	7.87	0.01	S.U.		7.86			0.12715	-5 - 5
LCS AA07670	6.86	0.01	S.U.	6.86		100	95 - 105		
LCS AA07671	6.78	0.01	S.U.	6.86		98.8	95 - 105		
TDS-2971		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
MB AA07913	<10.00	10.00	mg/L						
LCS AA07914	2888	10	mg/L	3000		96.3	85 - 115		
DUP AA07915	2888		mg/L					3.5374	
LCS AA07915	2992	10	mg/L	3000		99.7	85 - 115		
TSS-2900		Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Analyte	Result								
MB AA07713	<4	4	mg/L						
LCS AA07714	470		mg/L	500		94.0	85 - 115		
DUP AA07715	470		mg/L					4.7930	
LCS AA07715	448		mg/L	500		89.6	85 - 115		



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**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
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**ANIONS-2866**

**AA07643**

**DUP**

Bromide	94.7558		ppm		50.1404			0.831	
Chloride	6196.0602		ppm		5204.9331			0.841	
Fluoride	39.0768		ppm		<2.1			2.14	
Iodide	Not Tested		ppm						
Nitrate	38.2312		ppm		<2.1			2.56	
Nitrite	959.8247		ppm		<2.1			2.20	
Phosphate	Not Tested		ppm						
Sulfate	44.6880		ppm		<4.2			1.71	

**Matrix Spike**

Bromide	95.5468		ppm	42.0000	50.1404	108			
Chloride	6144.1655		ppm	1004.0000	5204.9331	93.5			
Fluoride	39.9227		ppm	42.0000	<2.1	95.1			
Iodide	Not Tested		ppm						
Nitrate	39.2208		ppm	42.0000	<2.1	93.4			
Nitrite	938.8997		ppm	1004.0000	<2.1	93.5			
Phosphate	Not Tested		ppm						
Sulfate	45.461		ppm	45.4610	<4.2	100			

**AA07660**

**MB**

Bromide	Not Detected		ppm						
Chloride	0.0178		ppm						
Fluoride	Not Detected		ppm						
Iodide	Not Tested		ppm						
Nitrate	Not Detected		ppm						
Nitrite	Not Detected		ppm						
Phosphate	Not Tested		ppm						
Sulfate	Not Detected		ppm						

**AA07661**

**LCS**

Bromide	1.9398		ppm			97.0			
Chloride	1.9019		ppm			95.1			
Fluoride	1.9618		ppm			98.1			
Iodide	Not Tested		ppm						
Nitrate	1.9326		ppm			96.6			
Nitrite	1.9543		ppm			97.7			
Phosphate	Not Tested		ppm						
Sulfate	2.0240		ppm			101			

**AA07662**

Bromide	1.9323		ppm			96.6			
Chloride	1.9027		ppm			95.1			
Fluoride	1.9415		ppm			97.1			



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**QC Report**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Iodide	Not Tested		ppm						
Nitrate	1.9251		ppm			96.3			
Nitrite	1.9426		ppm			97.1			
Phosphate	Not Tested		ppm						
Sulfate	2.0250		ppm			101			

**DRO\_ORO\_AQUEOUS-2901**

**AA07716**

**MB**

DRO	Not Detected		mg/L						
ORO	Not Detected		mg/L						

**AA07717**

**LCS**

DRO	31.342		mg/L			78.4			
ORO	27.699		mg/L			69.2			

**AA07718**

DRO	37.305		mg/L			93.3			
ORO	46.084		mg/L			115			

**METALS\_W-2887**

**AA07691**

**MB**

Arsenic	-0.008		µg/L						
Barium	-0.054		µg/L						
Boron	1.209		µg/L						
Calcium	-131.554		µg/L						
Iron	0.280		µg/L						
Magnesium	-2.983		µg/L						
Manganese	-0.048		µg/L						
Mercury	0.060		µg/L						
Phosphorous	0.306		µg/L						
Potassium	3.716		µg/L						
Selenium	0.204		µg/L						
Sodium	-3.091		µg/L						
Strontium	-0.122		µg/L						

**AA07693**

**LCS**

Arsenic	84.945	0.100	µg/L			94.4	80 - 120		
Barium	87.752	0.025	µg/L			97.5	80 - 120		
Boron	86.900	25.000	µg/L			96.6	80 - 120		
Calcium	931.088	25.000	µg/L			103	80 - 120		
Iron	87.140	20.000	µg/L			96.8	80 - 120		
Magnesium	84.343	25.000	µg/L			93.7	80 - 120		
Manganese	89.161	0.050	µg/L			99.1	80 - 120		
Mercury	95.585	0.100	µg/L			106	80 - 120		
Phosphorous	94.706	10.000	µg/L			105	80 - 120		



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Potassium	89.751	25.000	µg/L			99.7	80 - 120		
Selenium	89.054	1.000	µg/L			98.9	80 - 120		
Sodium	84.847	25.000	µg/L			94.3	80 - 120		
Strontium	88.622	0.025	µg/L			98.5	80 - 120		
<b>AA07694</b>									
Arsenic	84.977	0.100	µg/L			94.4	80 - 120		
Barium	91.525	0.025	µg/L			102	80 - 120		
Boron	77.135	25.000	µg/L			85.7	80 - 120		
Calcium	549.999	25.000	µg/L			110	80 - 120		
Iron	83.681	20.000	µg/L			93.0	80 - 120		
Magnesium	74.847	25.000	µg/L			83.2	80 - 120		
Manganese	85.802	0.050	µg/L			95.3	80 - 120		
Mercury	100.375	0.100	µg/L			112	80 - 120		
Phosphorous	86.332	10.000	µg/L			95.9	80 - 120		
Potassium	88.460	25.000	µg/L			98.3	80 - 120		
Selenium	91.562	1.000	µg/L			102	80 - 120		
Sodium	92.556	25.000	µg/L			103	80 - 120		
Strontium	89.033	0.025	µg/L			98.9	80 - 120		

**VOC\_8260\_W-2916**

**AA07749**

**MB**

Benzene	Not Detected	µg/L
Chloroform	<1.00	µg/L
Chloromethane	Not Detected	µg/L
m&p-Xylene	<4.27	µg/L
o-Xylene	<2.27	µg/L
Toluene	<2.63	µg/L
Xylene, total	<6.54	µg/L

**AA07750**

**LCS**

Benzene	24.10	µg/L	96.4
Chloroform	22.38	µg/L	89.5
Chloromethane	29.78	µg/L	119
Ethylbenzene	24.04	µg/L	96.2
m&p-Xylene	47.74	µg/L	95.5
Naphthalene	24.73	µg/L	98.9
o-Xylene	20.70	µg/L	82.8
Tetrachloroethylene	27.83	µg/L	111
Toluene	23.71	µg/L	94.8
Xylene, total	68.44	µg/L	91.3

**AA07751**

Benzene	23.61	µg/L	94.4
Chloroform	24.04	µg/L	96.2
Chloromethane	32.44	µg/L	130



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
Ethylbenzene	23.34		µg/L			93.4			
m&p-Xylene	45.93		µg/L			91.9			
Naphthalene	26.51		µg/L			106			
o-Xylene	20.58		µg/L			82.3			
Tetrachloroethylene	26.85		µg/L			107			
Toluene	22.81		µg/L			91.2			
Xylene, total	66.51		µg/L			88.7			

Qualifier

Explanation

- H1 Sample received outside of regulatory holding time.
- H2 Sample analyzed outside of regulatory holding time due to a laboratory error.
- P1 Sample received outside temperature requirements, 0-6°C.
- P2 Sample received unpreserved.
- P3 Broken or leaking sample container.
- P4 Sample improperly collected
- P5 Sample incorrectly preserved
- B1 Blank failed high, indicating possible high bias in sample results.
- B2 Blank failed low, indicating possible low bias in sample results.
- MS Matrix Spike / Matrix Spike Duplicate recovery and/or RPD limit exceeded, indicating potential matrix interference.
- D1 Duplicate RPD limit exceeded due to low sample concentration.
- D2 Duplicate RPD limit exceeded due to matrix interference.
- S Surrogate recovery failed, indicating potential matrix interference.
- RL1 Reporting limits raised due to matrix interference.
- RL2 Reporting limits raised due to limited sample.
- U Sample result less than method detection limit.
- J Sample result less than reporting limit but higher than method detection limit.
- E Electronic loss or corruption of data.
- I Subcontracted sample