



Division of Environmental Testing

2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

February 20, 2024

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

Project Manager : Lauren Glazier
Project Name : Chaco 909J 2024
Project Number : 771748

Attached are the analytical results for Chaco 909J 2024 771748 received by Elevation Diagnostics, Division of Environmental Testing on January 31, 2024. This is associated with Elevation's number AA04669 .

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



Division of Environmental Testing

2115 N Scranton St Suite 3040A
 Aurora, CO 80045
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Report Date : 2/20/2024

Report Time : 15:04

FINAL RESULTS REPORT

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

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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA04669-1	Ruth B Horn - Chaco						
	Collected : 01/30/2024 11:30						
		Anions - Bromide					
		01/31/2024 16:24		Not Detected	mg/L	0.1	EPA 300.0
		Anions - Sulfate					
		01/31/2024 16:24		1.5266	mg/L	0.2	EPA 300.0
		Anions - Nitrate					
		01/31/2024 16:24		Not Detected	mg/L	0.1	EPA 300.0
		Anions - Chloride					
		01/31/2024 16:24	501.00	304.1304	mg/L	0.2	EPA 300.0
		Anions - Fluoride					
		01/31/2024 16:24		6.6698	mg/L	0.1	EPA 300.0
		Total Alkalinity					
		01/31/2024 16:52		1135.926	mg/L		SM 2320B
		Bicarbonate Alkalinity					
		01/31/2024 16:56		1135.926	mg/L		SM 2320B
		Carbonate Alkalinity					
		01/31/2024 16:55		0	mg/L		SM 2320B
		Conductivity					
		01/31/2024 12:17		2440	µS/cm	20	EPA 9050A & 120.1
		Sum of Nitrate and Nitrite as Nitrogen					
		02/02/2024 10:23		<0.0226			
		Nitrate as Nitrogen					
		02/02/2024 10:23		<0.0226			
		Nitrite					
		02/02/2024 10:16		<0.05	mg/L	0.050	HACH 10207
		Nitrite as Nitrogen					
		02/02/2024 10:23		<0.0152			



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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		pH, Water 01/31/2024 12:15		7.59 - HI	S.U.	0.01	EPA9040C, EPA150.1
		pH, Water Temperature 01/31/2024 12:15		22.6	°C		
		Total Dissolved Solids 02/06/2024 10:45		1732	mg/L	10.00	SM2540C, EPA160.1
		Total Suspended Solids 02/01/2024 11:25		18	mg/L	4.00	SM2540D, EPA160.2
AA04669-2	Ruth B Horn - Chaco Collected : 01/30/2024 11:30	Total Metals, Aqueous - Phosphorous 02/02/2024 08:59 10.00		111.875	µg/L	10.000	EPA3010A&3005A
		Total Metals, Aqueous - Boron 02/02/2024 08:59 10.00		2267.630	µg/L	10.000	EPA3010A&3005A
		Total Metals, Aqueous - Potassium 02/02/2024 08:59 10.00		4500.414	µg/L	25.000	EPA3010A&3005A
		Total Metals, Aqueous - Calcium 02/02/2024 08:59 10.00		2788.465	µg/L	20.000	EPA3010A&3005A
		Total Metals, Aqueous - Manganese 02/02/2024 08:59 10.00		13.167	µg/L	0.500	EPA3010A&3005A
		Total Metals, Aqueous - Iron 02/02/2024 08:59 10.00		510.555	µg/L	10.000	EPA3010A&3005A
		Total Metals, Aqueous - Selenium 02/02/2024 08:59 10.00		<5.000 - RL1	µg/L	5.000	EPA3010A&3005A
		Total Metals, Aqueous - Strontium 02/02/2024 08:59 10.00		95.898	µg/L	0.250	EPA3010A&3005A
		Total Metals, Aqueous - Barium 02/02/2024 08:59 10.00		315.327	µg/L	0.250	EPA3010A&3005A



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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Total Metals, Aqueous - Magnesium					
		02/02/2024 08:59	10.00	330.142	µg/L	20.000	EPA3010A&3005A
		Total Metals, Aqueous - Sodium					
		02/02/2024 08:59	10,000.00	709933.590	µg/L	20.000	EPA3010A&3005A
AA04669-3	Ruth B Horn - Chaco						
	Collected : 01/30/2024	11:30					
		Volatile Organic Compounds - Xylenes, total					
		02/13/2024 09:43		171.21	µg/L	2.80	EPA 8260d
		Volatile Organic Compounds - o-Xylene					
		02/13/2024 09:43		38.36	µg/L	0.99	EPA 8260d
		Volatile Organic Compounds - m&p-Xylene					
		02/13/2024 09:43		132.85	µg/L	1.81	EPA 8260d
		Volatile Organic Compounds - Toluene					
		02/13/2024 09:43		28.65	µg/L	0.70	EPA 8260d
		Volatile Organic Compounds - Naphthalene					
		02/13/2024 09:43		11.47	µg/L	1.00	EPA 8260d
		Volatile Organic Compounds - Benzene					
		02/13/2024 09:43		7.98	µg/L	0.72	EPA 8260d
		Volatile Organic Compounds - Ethylbenzene					
		02/13/2024 09:43		24.38	µg/L	0.78	EPA 8260d
		Gasoline Range Organics, Aqueous					
		02/12/2024 16:04	100.00	3936.38	µg/L	225.80	EPA 8260
AA04669-4	Ruth B Horn - Chaco						
	Collected : 01/30/2024	11:30					
		Diesel Range Organic					
		02/07/2024 09:59		Not Detected - I	mg/L	5.0	EPA 8015M
		Oil Range Organic					
		02/07/2024 09:59		Not Detected - I	mg/L	5.0	EPA 8015M



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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA04669-5	Ruth B Horn - Chaco						
	Collected : 01/30/2024 11:30						
		Radium-226					
		02/16/2024 09:18		1.70 - I	pCi/L	1.00	EPA 903.1
		Radium-228					
		02/16/2024 09:18		2.33 - I	pCi/L	3.00	EPA 904.0

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
B	The sample analyte is found in the associated blank.
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.
QC	Associated batch quality control was outside the acceptable range
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.
EST	The concentration indicated has been estimated due to high analyte content.
E	Electronic loss or corruption of data.
I	Subcontracted sample