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17 August 2022

Sam Bollinger
Ogris Operating, LLC
21603 State Hwy 12
Trinidad, CO 81082
RE: Rule 909.j

Enclosed are the results of analyses for samples received by the laboratory on 07/15/22 10:30. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-14

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



Ogris Operating, LLC
21603 State Hwy 12
Trinidad CO, 81082

Project: Rule 909.j
Project Name / Number: Rule 909.j
Project Manager: Sam Bollinger

Reported:
08/17/22 11:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
GE 20-05X	2207173-01	Water	07/14/22 09:41	07/15/22 10:30	
GE 20-13	2207173-02	Water	07/14/22 10:12	07/15/22 10:30	
AC 12-14	2207173-03	Water	07/14/22 11:19	07/15/22 10:30	
HR 18-15V	2207173-04	Water	07/14/22 12:42	07/15/22 10:30	
HR 05-15R	2207173-05	Water	07/14/22 13:00	07/15/22 10:30	
HR 05-06R	2207173-06	Water	07/14/22 11:58	07/15/22 10:30	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Ogris Operating, LLC 21603 State Hwy 12 Trinidad CO, 81082	Project: Rule 909.j Project Name / Number: Rule 909.j Project Manager: Sam Bollinger	Reported: 08/17/22 11:13
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GE 20-05X

2207173-01 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate as CaCO3*	910	10.0	2.27	mg/L	5	07/19/22 12:50	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	130	10.0	2.27	mg/L	5	07/19/22 12:50	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	2.27	mg/L	5	07/19/22 12:50	2320 B		VJW
Alkalinity, Total as CaCO3*	1040	10.0	2.27	mg/L	5	07/19/22 12:50	2320 B		VJW
Bromide	0.564	0.200	0.0548	mg/L	2	07/19/22 22:19	EPA300.0		JDA
Chloride*	79.8	2.00	0.111	mg/L	2	07/19/22 22:19	EPA300.0		JDA
Conductivity*	1900	1.00		umho/cm @ 25.0°C	1	07/15/22 11:30	2510 B		QEB
Fluoride*	7.61	0.200	0.0194	mg/L	2	07/19/22 22:19	EPA300.0		JDA
Nitrate/Nitrite as N*	<0.020	0.020	0.012	mg/L as N	1	07/15/22 15:30	EPA353.2		HTB
pH*	8.19			pH Units	1	07/15/22 11:30	EPA150.1		QEB
pH Temperature, degrees C	17.9			pH Units	1	07/15/22 11:30	EPA150.1		QEB
Phosphorus, Total	<0.0500	0.0500	0.0164	mg P/L	1	07/20/22 09:22	EPA365.1		HTB
Total Dissolved Solids*	1200	10.0		mg/L	1	07/21/22 16:06	EPA160.1		VJW
Total Suspended Solids*	<2.50	2.50		mg/L	1	07/19/22 17:45	2540 D		VJW
Sulfate*	<2.00	2.00	0.248	mg/L	2	07/19/22 22:19	EPA300.0		JDA

Total Recoverable Metals by ICP (E200.7)

Boron	0.336	0.300	0.093	mg/L	1	07/26/22 16:43	EPA200.7		AES
Calcium*	1.97	0.100	0.038	mg/L	1	07/26/22 16:43	EPA200.7		AES
Hardness as CaCO3	6.39	0.662	0.218	mg/L	1	07/26/22 16:43	2340 B		AES
Iron*	2.71	0.050	0.038	mg/L	1	07/26/22 16:43	EPA200.7		AES
Magnesium*	0.355	0.100	0.030	mg/L	1	07/26/22 16:43	EPA200.7		AES
Potassium*	1.68	1.00	0.178	mg/L	1	07/26/22 16:43	EPA200.7		AES
Sodium*	505	5.00	0.380	mg/L	5	07/27/22 11:19	EPA200.7		AES
Strontium*	0.365	0.100	0.018	mg/L	1	07/26/22 16:43	EPA200.7		AES

Total Recoverable Metals by ICPMS (E200.8)

Barium*	0.168	0.0025	0.0015	mg/L	5	07/19/22 15:07	EPA200.8		AES
Manganese*	0.0256	0.0100	0.0009	mg/L	5	07/19/22 15:07	EPA200.8		AES
Selenium*	<0.0050	0.0050	0.0035	mg/L	5	07/19/22 15:07	EPA200.8		AES

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Jeremy D Allen, Laboratory Director

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GE 20-05X

2207173-01 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.295	mg/L	0.1	07/22/22 11:54	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.670	mg/L	0.1	07/22/22 11:54	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.670	mg/L	0.1	07/22/22 11:54	8015B		MS
Surrogate: 1-Chlorooctane			72.7 %	44.9-146		07/22/22 11:54	8015B		MS
Surrogate: 1-Chlorooctadecane			86.3 %	39.8-162		07/22/22 11:54	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.0005	0.0005	0.00009	mg/L	1	07/22/22 21:44	8260B		MS
Toluene*	0.0006	0.0005	0.00007	mg/L	1	07/22/22 21:44	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	07/22/22 21:44	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	07/22/22 21:44	8260B		MS
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	07/22/22 21:44	8260B		MS
Total Xylenes*	<0.002	0.002	0.0005	mg/L	1	07/22/22 21:44	8260B		MS
Naphthalene*	0.0009	0.0005	0.00004	mg/L	1	07/22/22 21:44	8260B		MS
Surrogate: Dibromofluoromethane			106 %	82.4-141		07/22/22 21:44	8260B		MS
Surrogate: Toluene-d8			98.2 %	87.1-110		07/22/22 21:44	8260B		MS
Surrogate: 4-Bromofluorobenzene			96.9 %	76.4-114		07/22/22 21:44	8260B		MS

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GE 20-13

2207173-02 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate as CaCO3*	815	10.0	2.27	mg/L	5	07/19/22 12:50	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	130	10.0	2.27	mg/L	5	07/19/22 12:50	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	2.27	mg/L	5	07/19/22 12:50	2320 B		VJW
Alkalinity, Total as CaCO3*	945	10.0	2.27	mg/L	5	07/19/22 12:50	2320 B		VJW
Bromide	0.852	0.200	0.0548	mg/L	2	07/19/22 22:40	EPA300.0		JDA
Chloride*	122	2.00	0.111	mg/L	2	07/19/22 22:40	EPA300.0		JDA
Conductivity*	1890	1.00		umho/cm @ 25.0°C	1	07/15/22 11:30	2510 B		QEB
Fluoride*	5.32	0.200	0.0194	mg/L	2	07/19/22 22:40	EPA300.0		JDA
Nitrate/Nitrite as N*	<0.020	0.020	0.012	mg/L as N	1	07/15/22 15:31	EPA353.2		HTB
pH*	8.12			pH Units	1	07/15/22 11:30	EPA150.1		QEB
pH Temperature, degrees C	17.2			pH Units	1	07/15/22 11:30	EPA150.1		QEB
Phosphorus, Total	<0.0500	0.0500	0.0164	mg P/L	1	07/20/22 09:33	EPA365.1		HTB
Total Dissolved Solids*	1190	10.0		mg/L	1	07/21/22 16:08	EPA160.1		VJW
Total Suspended Solids*	<2.50	2.50		mg/L	1	07/19/22 17:45	2540 D		VJW
Sulfate*	<2.00	2.00	0.248	mg/L	2	07/19/22 22:40	EPA300.0		JDA

Total Recoverable Metals by ICP (E200.7)

Boron	<0.300	0.300	0.093	mg/L	1	07/26/22 16:47	EPA200.7		AES
Calcium*	2.60	0.100	0.038	mg/L	1	07/26/22 16:47	EPA200.7		AES
Hardness as CaCO3	8.17	0.662	0.218	mg/L	1	07/26/22 16:47	2340 B		AES
Iron*	0.209	0.050	0.038	mg/L	1	07/26/22 16:47	EPA200.7		AES
Magnesium*	0.407	0.100	0.030	mg/L	1	07/26/22 16:47	EPA200.7		AES
Potassium*	1.54	1.00	0.178	mg/L	1	07/26/22 16:47	EPA200.7		AES
Sodium*	450	5.00	0.380	mg/L	5	07/27/22 11:21	EPA200.7		AES
Strontium*	0.554	0.100	0.018	mg/L	1	07/26/22 16:47	EPA200.7		AES

Total Recoverable Metals by ICPMS (E200.8)

Barium*	0.268	0.0025	0.0015	mg/L	5	07/19/22 15:09	EPA200.8		AES
Manganese*	<0.0100	0.0100	0.0009	mg/L	5	07/19/22 15:09	EPA200.8		AES
Selenium*	<0.0050	0.0050	0.0035	mg/L	5	07/19/22 15:09	EPA200.8		AES

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GE 20-13

2207173-02 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.295	mg/L	0.1	07/22/22 12:16	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.670	mg/L	0.1	07/22/22 12:16	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.670	mg/L	0.1	07/22/22 12:16	8015B		MS
Surrogate: 1-Chlorooctane			70.0 %	44.9-146		07/22/22 12:16	8015B		MS
Surrogate: 1-Chlorooctadecane			78.2 %	39.8-162		07/22/22 12:16	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.0005	0.0005	0.00009	mg/L	1	07/22/22 22:06	8260B		MS
Toluene*	<0.0005	0.0005	0.00007	mg/L	1	07/22/22 22:06	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	07/22/22 22:06	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	07/22/22 22:06	8260B		MS
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	07/22/22 22:06	8260B		MS
Total Xylenes*	<0.002	0.002	0.0005	mg/L	1	07/22/22 22:06	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	07/22/22 22:06	8260B		MS
Surrogate: Dibromofluoromethane			106 %	82.4-141		07/22/22 22:06	8260B		MS
Surrogate: Toluene-d8			98.1 %	87.1-110		07/22/22 22:06	8260B		MS
Surrogate: 4-Bromofluorobenzene			98.0 %	76.4-114		07/22/22 22:06	8260B		MS

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Ogris Operating, LLC
21603 State Hwy 12
Trinidad CO, 81082

Project: Rule 909.j
Project Name / Number: Rule 909.j
Project Manager: Sam Bollinger

Reported:
08/17/22 11:13

AC 12-14

2207173-03 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate as CaCO3*	650	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	140	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Total as CaCO3*	790	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Bromide	0.138	0.100	0.0274	mg/L	1	07/26/22 14:02	EPA300.0		AES
Chloride*	19.4	1.00	0.0555	mg/L	1	07/26/22 14:02	EPA300.0		AES
Conductivity*	1340	1.00		umho/cm @ 25.0°C	1	07/15/22 11:30	2510 B		QEB
Fluoride*	4.67	0.100	0.00971	mg/L	1	07/26/22 14:02	EPA300.0		AES
Nitrate/Nitrite as N*	<0.020	0.020	0.012	mg/L as N	1	07/15/22 15:32	EPA353.2		HTB
pH*	8.48			pH Units	1	07/15/22 11:30	EPA150.1		QEB
pH Temperature, degrees C	17.7			pH Units	1	07/15/22 11:30	EPA150.1		QEB
Phosphorus, Total	<0.0500	0.0500	0.0164	mg P/L	1	07/20/22 09:24	EPA365.1		HTB
Total Dissolved Solids*	850	10.0		mg/L	1	07/21/22 16:10	EPA160.1		VJW
Total Suspended Solids*	<2.50	2.50		mg/L	1	07/19/22 17:45	2540 D		VJW
Sulfate*	<1.00	1.00	0.124	mg/L	1	07/26/22 14:02	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Boron	0.373	0.300	0.093	mg/L	1	07/26/22 16:51	EPA200.7		AES
Calcium*	2.24	0.100	0.038	mg/L	1	07/26/22 16:51	EPA200.7		AES
Hardness as CaCO3	7.01	0.662	0.218	mg/L	1	07/26/22 16:51	2340 B		AES
Iron*	0.488	0.050	0.038	mg/L	1	07/26/22 16:51	EPA200.7		AES
Magnesium*	0.344	0.100	0.030	mg/L	1	07/26/22 16:51	EPA200.7		AES
Potassium*	1.42	1.00	0.178	mg/L	1	07/26/22 16:51	EPA200.7		AES
Sodium*	325	1.00	0.076	mg/L	1	07/26/22 16:51	EPA200.7		AES
Strontium*	0.357	0.100	0.018	mg/L	1	07/26/22 16:51	EPA200.7		AES

Total Recoverable Metals by ICPMS (E200.8)

Barium*	0.337	0.0025	0.0015	mg/L	5	07/19/22 15:10	EPA200.8		AES
Manganese*	<0.0100	0.0100	0.0009	mg/L	5	07/19/22 15:10	EPA200.8		AES
Selenium*	<0.0050	0.0050	0.0035	mg/L	5	07/19/22 15:10	EPA200.8		AES

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AC 12-14

2207173-03 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.295	mg/L	0.1	07/22/22 12:37	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.670	mg/L	0.1	07/22/22 12:37	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.670	mg/L	0.1	07/22/22 12:37	8015B		MS
Surrogate: 1-Chlorooctane			73.6 %	44.9-146		07/22/22 12:37	8015B		MS
Surrogate: 1-Chlorooctadecane			82.7 %	39.8-162		07/22/22 12:37	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.0005	0.0005	0.00009	mg/L	1	07/22/22 22:28	8260B		MS
Toluene*	<0.0005	0.0005	0.00007	mg/L	1	07/22/22 22:28	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	07/22/22 22:28	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	07/22/22 22:28	8260B		MS
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	07/22/22 22:28	8260B		MS
Total Xylenes*	<0.002	0.002	0.0005	mg/L	1	07/22/22 22:28	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	07/22/22 22:28	8260B		MS
Surrogate: Dibromofluoromethane			105 %	82.4-141		07/22/22 22:28	8260B		MS
Surrogate: Toluene-d8			98.6 %	87.1-110		07/22/22 22:28	8260B		MS
Surrogate: 4-Bromofluorobenzene			95.2 %	76.4-114		07/22/22 22:28	8260B		MS

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HR 18-15V

2207173-04 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate as CaCO3*	950	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	70.0	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Total as CaCO3*	1020	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Bromide	0.410	0.200	0.0548	mg/L	2	07/26/22 14:23	EPA300.0		AES
Chloride*	52.5	2.00	0.111	mg/L	2	07/26/22 14:23	EPA300.0		AES
Conductivity*	1770	1.00		umho/cm @ 25.0°C	1	07/15/22 11:30	2510 B		QEB
Fluoride*	5.11	0.200	0.0194	mg/L	2	07/26/22 14:23	EPA300.0		AES
Nitrate/Nitrite as N*	<0.020	0.020	0.012	mg/L as N	1	07/15/22 15:33	EPA353.2		HTB
pH*	7.96			pH Units	1	07/15/22 11:30	EPA150.1		QEB
pH Temperature, degrees C	17.4			pH Units	1	07/15/22 11:30	EPA150.1		QEB
Phosphorus, Total	<0.0500	0.0500	0.0164	mg P/L	1	07/20/22 09:25	EPA365.1		HTB
Total Dissolved Solids*	1110	10.0		mg/L	1	07/21/22 16:12	EPA160.1		VJW
Total Suspended Solids*	<2.50	2.50		mg/L	1	07/19/22 17:45	2540 D		VJW
Sulfate*	<2.00	2.00	0.248	mg/L	2	07/26/22 14:23	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Boron	0.513	0.300	0.093	mg/L	1	07/26/22 16:59	EPA200.7		AES
Calcium*	3.45	0.100	0.038	mg/L	1	07/26/22 16:59	EPA200.7		AES
Hardness as CaCO3	10.1	0.662	0.218	mg/L	1	07/26/22 16:59	2340 B		AES
Iron*	0.455	0.050	0.038	mg/L	1	07/26/22 16:59	EPA200.7		AES
Magnesium*	0.353	0.100	0.030	mg/L	1	07/26/22 16:59	EPA200.7		AES
Potassium*	1.53	1.00	0.178	mg/L	1	07/26/22 16:59	EPA200.7		AES
Sodium*	419	5.00	0.380	mg/L	5	07/27/22 11:28	EPA200.7		AES
Strontium*	0.464	0.100	0.018	mg/L	1	07/26/22 16:59	EPA200.7		AES

Total Recoverable Metals by ICPMS (E200.8)

Barium*	0.231	0.0025	0.0015	mg/L	5	07/19/22 15:12	EPA200.8		AES
Manganese*	<0.0100	0.0100	0.0009	mg/L	5	07/19/22 15:12	EPA200.8		AES
Selenium*	<0.0050	0.0050	0.0035	mg/L	5	07/19/22 15:12	EPA200.8		AES

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Ogris Operating, LLC 21603 State Hwy 12 Trinidad CO, 81082	Project: Rule 909.j Project Name / Number: Rule 909.j Project Manager: Sam Bollinger	Reported: 08/17/22 11:13
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HR 18-15V

2207173-04 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.295	mg/L	0.1	07/22/22 12:59	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.670	mg/L	0.1	07/22/22 12:59	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.670	mg/L	0.1	07/22/22 12:59	8015B		MS
Surrogate: 1-Chlorooctane			74.4 %	44.9-146		07/22/22 12:59	8015B		MS
Surrogate: 1-Chlorooctadecane			82.0 %	39.8-162		07/22/22 12:59	8015B		MS

VOLATILES BY GC/MS

Benzene*	0.002	0.0005	0.00009	mg/L	1	07/25/22 14:33	8260B		MS
Toluene*	<0.0005	0.0005	0.00007	mg/L	1	07/25/22 14:33	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	07/25/22 14:33	8260B		MS
m+p - Xylene*	0.001	0.001	0.0005	mg/L	1	07/25/22 14:33	8260B		MS
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	07/25/22 14:33	8260B		MS
Total Xylenes*	<0.002	0.002	0.0005	mg/L	1	07/25/22 14:33	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	07/25/22 14:33	8260B		MS
Surrogate: Dibromofluoromethane			87.8 %	82.4-141		07/25/22 14:33	8260B		MS
Surrogate: Toluene-d8			101 %	87.1-110		07/25/22 14:33	8260B		MS
Surrogate: 4-Bromofluorobenzene			88.6 %	76.4-114		07/25/22 14:33	8260B		MS

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Ogris Operating, LLC
 21603 State Hwy 12
 Trinidad CO, 81082

Project: Rule 909.j
 Project Name / Number: Rule 909.j
 Project Manager: Sam Bollinger

Reported:
 08/17/22 11:13

HR 05-15R

2207173-05 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate as CaCO3*	770	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	210	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Alkalinity, Total as CaCO3*	980	10.0	2.27	mg/L	5	07/25/22 14:45	2320 B		VJW
Bromide	0.230	0.200	0.0548	mg/L	2	07/26/22 14:44	EPA300.0		AES
Chloride*	32.6	2.00	0.111	mg/L	2	07/26/22 14:44	EPA300.0		AES
Conductivity*	1740	1.00		umho/cm @ 25.0°C	1	07/15/22 11:30	2510 B		QEB
Fluoride*	3.98	0.200	0.0194	mg/L	2	07/26/22 14:44	EPA300.0		AES
Nitrate/Nitrite as N*	<0.020	0.020	0.012	mg/L as N	1	07/15/22 15:34	EPA353.2		HTB
pH*	8.57			pH Units	1	07/15/22 11:30	EPA150.1		QEB
pH Temperature, degrees C	17.9			pH Units	1	07/15/22 11:30	EPA150.1		QEB
Phosphorus, Total	<0.0500	0.0500	0.0164	mg P/L	1	07/20/22 09:25	EPA365.1		HTB
Total Dissolved Solids*	1100	10.0		mg/L	1	07/21/22 16:14	EPA160.1		VJW
Total Suspended Solids*	<2.50	2.50		mg/L	1	07/19/22 17:45	2540 D		VJW
Sulfate*	<2.00	2.00	0.248	mg/L	2	07/26/22 14:44	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Boron	<0.300	0.300	0.093	mg/L	1	07/26/22 17:03	EPA200.7		AES
Calcium*	1.76	0.100	0.038	mg/L	1	07/26/22 17:03	EPA200.7		AES
Hardness as CaCO3	5.81	0.662	0.218	mg/L	1	07/26/22 17:03	2340 B		AES
Iron*	0.720	0.050	0.038	mg/L	1	07/26/22 17:03	EPA200.7		AES
Magnesium*	0.344	0.100	0.030	mg/L	1	07/26/22 17:03	EPA200.7		AES
Potassium*	1.97	1.00	0.178	mg/L	1	07/26/22 17:03	EPA200.7		AES
Sodium*	518	5.00	0.380	mg/L	5	07/27/22 11:33	EPA200.7		AES
Strontium*	0.338	0.100	0.018	mg/L	1	07/26/22 17:03	EPA200.7		AES

Total Recoverable Metals by ICPMS (E200.8)

Barium*	0.519	0.0025	0.0015	mg/L	5	07/19/22 15:13	EPA200.8		AES
Manganese*	0.0118	0.0100	0.0009	mg/L	5	07/19/22 15:13	EPA200.8		AES
Selenium*	<0.0050	0.0050	0.0035	mg/L	5	07/19/22 15:13	EPA200.8		AES

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HR 05-15R

2207173-05 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.295	mg/L	0.1	07/22/22 13:20	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.670	mg/L	0.1	07/22/22 13:20	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.670	mg/L	0.1	07/22/22 13:20	8015B		MS
Surrogate: 1-Chlorooctane			73.4 %	44.9-146		07/22/22 13:20	8015B		MS
Surrogate: 1-Chlorooctadecane			81.2 %	39.8-162		07/22/22 13:20	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.0005	0.0005	0.00009	mg/L	1	07/22/22 23:09	8260B		MS
Toluene*	<0.0005	0.0005	0.00007	mg/L	1	07/22/22 23:09	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	07/22/22 23:09	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	07/22/22 23:09	8260B		MS
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	07/22/22 23:09	8260B		MS
Total Xylenes*	<0.002	0.002	0.0005	mg/L	1	07/22/22 23:09	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	07/22/22 23:09	8260B		MS
Surrogate: Dibromofluoromethane			105 %	82.4-141		07/22/22 23:09	8260B		MS
Surrogate: Toluene-d8			98.1 %	87.1-110		07/22/22 23:09	8260B		MS
Surrogate: 4-Bromofluorobenzene			97.5 %	76.4-114		07/22/22 23:09	8260B		MS

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Ogris Operating, LLC 21603 State Hwy 12 Trinidad CO, 81082	Project: Rule 909.j Project Name / Number: Rule 909.j Project Manager: Sam Bollinger	Reported: 08/17/22 11:13
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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B221906 - Lachat

Blank (B221906-BLK1)

Prepared & Analyzed: 07/15/22

Nitrate/Nitrite as N	ND	0.020	mg/L as N							
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LCS (B221906-BS1)

Prepared & Analyzed: 07/15/22

Nitrate/Nitrite as N	1.04	0.020	mg/L as N	1.00		104	90-110			
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LCS Dup (B221906-BSD1)

Prepared & Analyzed: 07/15/22

Nitrate/Nitrite as N	1.03	0.020	mg/L as N	1.00		103	90-110	0.203	20	
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Batch B221915 - General Prep - Wet Chem

Reference (B221915-SRM1)

Prepared & Analyzed: 07/15/22

pH	7.03		pH Units	7.00		100	98.57-101.42			
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Batch B221916 - General Prep - Wet Chem

Reference (B221916-SRM1)

Prepared & Analyzed: 07/15/22

Conductivity	1030	1.00	umho/cm @ 25.0°C	1000		103	90-110			
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Batch B221926 - IC- Ion Chromatograph

Blank (B221926-BLK1)

Prepared: 07/18/22 Analyzed: 07/19/22

Bromide	ND	0.100	mg/L							
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							

LCS (B221926-BS1)

Prepared: 07/18/22 Analyzed: 07/19/22

Bromide	2.37	0.100	mg/L	2.50		94.8	90-110			
Chloride	24.7	1.00	mg/L	25.0		98.7	90-110			
Fluoride	2.37	0.100	mg/L	2.50		94.7	90-110			
Sulfate	24.1	1.00	mg/L	25.0		96.3	90-110			

LCS Dup (B221926-BSD1)

Prepared: 07/18/22 Analyzed: 07/19/22

Bromide	2.37	0.100	mg/L	2.50		94.8	90-110	0.00	20	
Chloride	24.7	1.00	mg/L	25.0		98.8	90-110	0.113	20	
Fluoride	2.37	0.100	mg/L	2.50		94.8	90-110	0.127	20	
Sulfate	24.1	1.00	mg/L	25.0		96.4	90-110	0.0706	20	

Batch B221933 - General Prep - Wet Chem

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Ogris Operating, LLC
21603 State Hwy 12
Trinidad CO, 81082

Project: Rule 909.j
Project Name / Number: Rule 909.j
Project Manager: Sam Bollinger

Reported:
08/17/22 11:13

**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B221933 - General Prep - Wet Chem (Continued)

Blank (B221933-BLK1)

Prepared: 07/18/22 Analyzed: 07/19/22

Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							
Alkalinity, Total as CaCO3	ND	10.0	mg/L							

LCS (B221933-BS1)

Prepared: 07/18/22 Analyzed: 07/19/22

Alkalinity, Bicarbonate as CaCO3	106	10.0	mg/L	100		106	85-115			
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115			
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115			
Alkalinity, Total as CaCO3	106	10.0	mg/L	100		106	85-115			

LCS Dup (B221933-BSD1)

Prepared: 07/18/22 Analyzed: 07/19/22

Alkalinity, Bicarbonate as CaCO3	109	10.0	mg/L	100		109	85-115	2.79	20	
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115		20	
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115		20	
Alkalinity, Total as CaCO3	109	10.0	mg/L	100		109	85-115	2.79	20	

Batch B221943 - Lachat

Blank (B221943-BLK1)

Prepared: 07/19/22 Analyzed: 07/20/22

Phosphorus, Total	ND	0.0500	mg P/L							
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LCS (B221943-BS1)

Prepared: 07/19/22 Analyzed: 07/20/22

Phosphorus, Total	2.67	0.0500	mg P/L	2.50		107	90-110			
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LCS Dup (B221943-BSD1)

Prepared: 07/19/22 Analyzed: 07/20/22

Phosphorus, Total	2.68	0.0500	mg P/L	2.50		107	90-110	0.628	20	
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Batch B221945 - General Prep - Wet Chem

Blank (B221945-BLK1)

Prepared & Analyzed: 07/19/22

Total Suspended Solids	ND	2.50	mg/L							
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Reference (B221945-SRM1)

Prepared & Analyzed: 07/19/22

Total Suspended Solids	101	2.50	mg/L	100		101	85-115			
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Batch B221982 - General Prep - Wet Chem

Blank (B221982-BLK1)

Prepared & Analyzed: 07/21/22

Total Dissolved Solids	ND	10.0	mg/L							
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Reference (B221982-SRM1)

Prepared & Analyzed: 07/21/22

Total Dissolved Solids	380	10.0	mg/L	380		100	85-115			
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Ogris Operating, LLC 21603 State Hwy 12 Trinidad CO, 81082	Project: Rule 909.j Project Name / Number: Rule 909.j Project Manager: Sam Bollinger	Reported: 08/17/22 11:13
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**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B222004 - General Prep - Wet Chem

Blank (B222004-BLK1)

Prepared & Analyzed: 07/25/22

Alkalinity, Total as CaCO3	ND	10.0	mg/L							
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LCS (B222004-BS1)

Prepared & Analyzed: 07/25/22

Alkalinity, Bicarbonate as CaCO3	104	10.0	mg/L	100		104	85-115			
Alkalinity, Total as CaCO3	104	10.0	mg/L	100		104	85-115			

LCS Dup (B222004-BSD1)

Prepared & Analyzed: 07/25/22

Alkalinity, Bicarbonate as CaCO3	107	10.0	mg/L	100		107	85-115	2.84	20	
Alkalinity, Total as CaCO3	107	10.0	mg/L	100		107	85-115	2.84	20	

Batch B222013 - IC- Ion Chromatograph

Blank (B222013-BLK1)

Prepared & Analyzed: 07/26/22

Bromide	ND	0.100	mg/L							
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							

LCS (B222013-BS1)

Prepared & Analyzed: 07/26/22

Bromide	2.40	0.100	mg/L	2.50		96.0	90-110			
Chloride	24.8	1.00	mg/L	25.0		99.2	90-110			
Fluoride	2.39	0.100	mg/L	2.50		95.6	90-110			
Sulfate	24.3	1.00	mg/L	25.0		97.2	90-110			

LCS Dup (B222013-BSD1)

Prepared & Analyzed: 07/26/22

Bromide	2.42	0.100	mg/L	2.50		96.6	90-110	0.623	20	
Chloride	24.8	1.00	mg/L	25.0		99.1	90-110	0.101	20	
Fluoride	2.39	0.100	mg/L	2.50		95.6	90-110	0.00	20	
Sulfate	24.3	1.00	mg/L	25.0		97.1	90-110	0.148	20	

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Ogris Operating, LLC 21603 State Hwy 12 Trinidad CO, 81082	Project: Rule 909.j Project Name / Number: Rule 909.j Project Manager: Sam Bollinger	Reported: 08/17/22 11:13
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Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B221921 - Total Recoverable by ICP

Blank (B221921-BLK1)

Prepared: 07/18/22 Analyzed: 07/26/22

Boron	ND	0.300	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
Strontium	ND	0.100	mg/L							

LCS (B221921-BS1)

Prepared: 07/18/22 Analyzed: 07/26/22

Boron	1.97	0.300	mg/L	2.00		98.7	85-115			
Calcium	1.96	0.100	mg/L	2.00		97.8	85-115			
Iron	1.98	0.050	mg/L	2.00		98.8	85-115			
Magnesium	9.95	0.100	mg/L	10.0		99.5	85-115			
Potassium	3.93	1.00	mg/L	4.00		98.2	85-115			
Sodium	1.63	1.00	mg/L	1.62		100	85-115			
Strontium	1.96	0.100	mg/L	2.00		98.0	85-115			

LCS Dup (B221921-BS1)

Prepared: 07/18/22 Analyzed: 07/26/22

Boron	1.98	0.300	mg/L	2.00		99.0	85-115	0.389	20	
Calcium	1.95	0.100	mg/L	2.00		97.5	85-115	0.317	20	
Iron	1.99	0.050	mg/L	2.00		99.3	85-115	0.453	20	
Magnesium	9.95	0.100	mg/L	10.0		99.5	85-115	0.0363	20	
Potassium	3.97	1.00	mg/L	4.00		99.3	85-115	1.06	20	
Sodium	1.62	1.00	mg/L	1.62		99.8	85-115	0.602	20	
Strontium	1.96	0.100	mg/L	2.00		98.1	85-115	0.135	20	

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Jeremy D Allen, Laboratory Director

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Ogris Operating, LLC 21603 State Hwy 12 Trinidad CO, 81082	Project: Rule 909.j Project Name / Number: Rule 909.j Project Manager: Sam Bollinger	Reported: 08/17/22 11:13
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Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B221923 - Total Recoverable by ICPMS

Blank (B221923-BLK1)

Prepared: 07/18/22 Analyzed: 07/19/22

Barium	ND	0.0005	mg/L							
Manganese	ND	0.0020	mg/L							
Selenium	ND	0.0010	mg/L							

LCS (B221923-BS1)

Prepared: 07/18/22 Analyzed: 07/19/22

Barium	0.0496	0.0005	mg/L	0.0500		99.2	85-115			
Manganese	0.0474	0.0020	mg/L	0.0500		94.7	85-115			
Selenium	0.248	0.0010	mg/L	0.250		99.2	85-115			

LCS Dup (B221923-BSD1)

Prepared: 07/18/22 Analyzed: 07/19/22

Barium	0.0483	0.0005	mg/L	0.0500		96.7	85-115	2.62	20	
Manganese	0.0489	0.0020	mg/L	0.0500		97.8	85-115	3.19	20	
Selenium	0.245	0.0010	mg/L	0.250		98.1	85-115	1.17	20	

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Ogris Operating, LLC
 21603 State Hwy 12
 Trinidad CO, 81082

Project: Rule 909.j
 Project Name / Number: Rule 909.j
 Project Manager: Sam Bollinger

Reported:
 08/17/22 11:13

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2072210 - General Prep - Organics

Blank (2072210-BLK1)

Prepared & Analyzed: 07/22/22

Surrogate: 1-Chlorooctadecane	4.31		mg/L	5.00		86.2	39.8-162			
Surrogate: 1-Chlorooctane	3.66		mg/L	5.00		73.2	44.9-146			
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
GRO C6-C10	ND	1.00	mg/L							

LCS (2072210-BS1)

Prepared & Analyzed: 07/22/22

Surrogate: 1-Chlorooctadecane	4.22		mg/L	5.00		84.5	39.8-162			
Surrogate: 1-Chlorooctane	4.44		mg/L	5.00		88.7	44.9-146			
DRO >C10-C28	45.5	1.00	mg/L	50.0		91.0	70-121			
GRO C6-C10	43.3	1.00	mg/L	50.0		86.6	72.4-116			

LCS Dup (2072210-BSD1)

Prepared & Analyzed: 07/22/22

Surrogate: 1-Chlorooctadecane	4.25		mg/L	5.00		85.0	39.8-162			
Surrogate: 1-Chlorooctane	4.48		mg/L	5.00		89.6	44.9-146			
DRO >C10-C28	45.2	1.00	mg/L	50.0		90.4	70-121	0.617	24.8	
GRO C6-C10	43.0	1.00	mg/L	50.0		86.0	72.4-116	0.749	8.73	

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Ogris Operating, LLC 21603 State Hwy 12 Trinidad CO, 81082	Project: Rule 909.j Project Name / Number: Rule 909.j Project Manager: Sam Bollinger	Reported: 08/17/22 11:13
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VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2072227 - Volatiles

Blank (2072227-BLK1)

Prepared & Analyzed: 07/22/22

Surrogate: 4-Bromofluorobenzene	0.0245		mg/L	0.0250		98.1	76.4-114			
Benzene	ND	0.0005	mg/L							
Surrogate: Dibromofluoromethane	0.0262		mg/L	0.0250		105	82.4-141			
Ethylbenzene	ND	0.0005	mg/L							
m+p - Xylene	ND	0.001	mg/L							
Naphthalene	ND	0.0005	mg/L							
o-Xylene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
Surrogate: Toluene-d8	0.0250		mg/L	0.0250		99.9	87.1-110			
Total Xylenes	ND	0.002	mg/L							

LCS (2072227-BS1)

Prepared & Analyzed: 07/22/22

Surrogate: 4-Bromofluorobenzene	0.0256		mg/L	0.0250		103	76.4-114			
Benzene	0.020	0.0005	mg/L	0.0200		102	85.9-114			
Surrogate: Dibromofluoromethane	0.0257		mg/L	0.0250		103	82.4-141			
Ethylbenzene	0.020	0.0005	mg/L	0.0200		102	81.8-127			
m+p - Xylene	0.042	0.001	mg/L	0.0400		104	72.4-134			
Naphthalene	0.020	0.0005	mg/L	0.0200		97.8	59.3-140			
o-Xylene	0.020	0.0005	mg/L	0.0200		101	76.2-135			
Toluene	0.020	0.0005	mg/L	0.0200		102	78.8-121			
Surrogate: Toluene-d8	0.0249		mg/L	0.0250		99.7	87.1-110			
Total Xylenes	0.062	0.002	mg/L	0.0600		103	74.3-134			

LCS Dup (2072227-BSD1)

Prepared & Analyzed: 07/22/22

Surrogate: 4-Bromofluorobenzene	0.0251		mg/L	0.0250		101	76.4-114			
Benzene	0.020	0.0005	mg/L	0.0200		102	85.9-114	0.146	4.16	
Surrogate: Dibromofluoromethane	0.0260		mg/L	0.0250		104	82.4-141			
Ethylbenzene	0.020	0.0005	mg/L	0.0200		102	81.8-127	0.245	4.83	
m+p - Xylene	0.042	0.001	mg/L	0.0400		104	72.4-134	0.192	5.77	
Naphthalene	0.020	0.0005	mg/L	0.0200		98.8	59.3-140	1.07	33.5	
o-Xylene	0.020	0.0005	mg/L	0.0200		102	76.2-135	0.345	6.29	
Toluene	0.020	0.0005	mg/L	0.0200		99.8	78.8-121	2.28	5.67	
Surrogate: Toluene-d8	0.0250		mg/L	0.0250		100	87.1-110			
Total Xylenes	0.062	0.002	mg/L	0.0600		103	74.3-134	0.242	5.83	

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Ogris Operating, LLC
21603 State Hwy 12
Trinidad CO, 81082

Project: Rule 909.j
Project Name / Number: Rule 909.j
Project Manager: Sam Bollinger

Reported:
08/17/22 11:13

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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Company Name: Ogris Operating, LLC
 Address: 21603 State
 Trinidad, CO
 Contact: Sam Bollinger
 Phone #: 719-680-0808
 Agency: COGCC

75 Shuttle Street
 Durango, CO 81303
 Phone: (970) 247-4220 - Email: brenna.kampf@greenanalytical.com

Sample Description	Sample Date	Time MST	(C)omp / (G)rab	Alkalinity as CaCO3	Bicarbonate as CaCO3	Carbonate as CaCO3	Hydroxide as CaCO3	Conductivity	TSS	TDS	Lab pH	Boron 200.2 by ICP	Iron 200.2 by ICP	Potassium 200.2 by ICP	Sodium 200.2 by ICP	Strontium 200.2 by ICP	Hardness, Calcium, Magnesium	Barium 200.2 by ICPMS	Manganese 200.2 by ICPMS	Selenium 200.2 by ICPMS	Bromide by IC	Chloride by IC	Fluoride by IC	Sulfate by IC	Nitrate/Nitrite AS N	Phosphorus, Total	TPH 8015M	BTEX+Naphtalene 8260	Preservatives	# of Containers
2207-173,01- GE 20-05X	7/14/2022	9:41AM	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HNO3 H2SO4 HCl	12
GE 20-13	7/14/2022	10:12AM	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HNO3 H2SO4 HCl	12
AC 12-14	7/14/2022	11:19AM	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HNO3 H2SO4 HCl	12
HR 18-15V	7/14/2022	12:42PM	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HNO3 H2SO4 HCl	12
HR 05-15R	7/14/2022	1:00PM	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HNO3 H2SO4 HCl	12

Collected by: (Signature) _____ Date: 7-14-2022 Time: 4:30
 Relinquished by: (Signature) _____ Date: 7-15-22 Time: 1030
 Received by: (Signature) _____ Date: _____ Time: _____
 Method of Shipment: FED-EX
 Additional Comments: 909J Wellheads
1.0°C Pms onid Laser #2

Green Analytical Laboratories

Company Name: Ogris Operating, LLC
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 Trinidad, CO
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 Phone #: 719-680-0808
 Agency: COGCC

75 Shuttle Street
 Durango, CO 81303
 Phone: (970) 247-4220 - Email: brenna.kampf@greenanalytical.com

Sample Description	Sample Date	Time MST	(C)omp / (G)rab	Radium 226	Radium 228	Preservatives	# of Containers
2207-173							
GE 20-05X	7/14/2022	9:41AM	G	X	X	NONE	12
GE 20-13	7/14/2022	10:12AM	G	X	X	NONE	12
AC 12-14	7/14/2022	11:19AM	G	X	X	NONE	12

-01
-02
-03

Collected by: (Signature) _____ Date: 7-14-2022 Time: 4:50

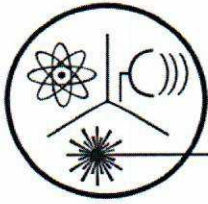
Relinquished by: (Signature) _____ Date: 7/15/22 Time: 1030

Received by: (Signature) Roger Stittman Date: _____ Time: _____

Received by: (Signature) _____ Date: _____ Time: _____

Method of Shipment: FED-EX

Additional Comments: 909J Wellheads 25.9°C



Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121

Website: www.radsafe.com

(480) 897-9459

FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

Green Analytical Laboratories

75 Suttle St.

Durango, CO 81303

Sampling Date: July 14, 2022

Sample Received: July 20, 2022

Analysis Completed: August 01, 2022

Sample ID	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
2207-173-01	< 0.4	< 0.7	< 0.7

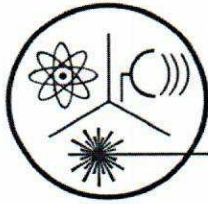
Date of Analysis	7/22/2022	7/22/2022	7/22/2022
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Alex Myers, Ph.D.

8/1/2022

Date

Laboratory License Number AZ0462



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Radiochemical Activity in Water (pCi/L)

Green Analytical Laboratories

75 Suttle St.

Durango, CO 81303

Sampling Date: July 14, 2022

Sample Received: July 20, 2022

Analysis Completed: August 01, 2022

Sample ID	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
2207-173-02	< 0.4	< 0.7	< 0.7

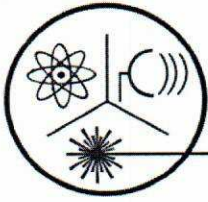
Date of Analysis	7/22/2022	7/22/2022	7/22/2022
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Alex Myers, Ph.D.

8/1/2022

Date

Laboratory License Number AZ0462



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Radiochemical Activity in Water (pCi/L)

Green Analytical Laboratories
75 Suttle St.
Durango, CO 81303

Sampling Date: July 14, 2022
Sample Received: July 20, 2022
Analysis Completed: August 01, 2022

Sample ID	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
2207-173-03	< 0.4	< 0.7	< 0.7

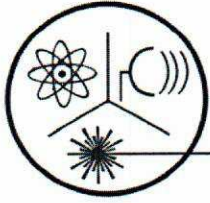
Date of Analysis	7/22/2022	7/22/2022	7/22/2022
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Alex Myers, Ph.D.

8/1/2022

Date

Laboratory License Number AZ0462



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Radiochemical Activity in Water (pCi/L)

Green Analytical Laboratories

75 Suttle St.

Durango, CO 81303

Sampling Date: July 14, 2022

Sample Received: July 20, 2022

Analysis Completed: August 01, 2022

Sample ID	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
2207-173-06	< 0.4	< 0.7	< 0.7

Date of Analysis	7/22/2022	7/22/2022	7/22/2022
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Alex Myers, Ph.D.

8/1/2022

Date

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