

TABLE 1
SGS ANALYTICAL RESULTS
Permit #47218-F
Fort Lupton, Colorado
Sample ID: Martin 47218-F

Analyte, Units	3/4/2024 Result	7/16/2024 Result
Alkalinity, Bicarbonate, mg/L	508	500
Alkalinity, Carbonate, mg/L	30.0	34.1
Alkalinity, Total, mg/L	538	534
Bacteria, Iron Reducing, CFU/mL	140,000	2,200
Bacteria, Slime Forming, CFU/mL	67,000	ND
Bacteria, Sulfate Reducing, CFU/mL	1,400	ND
Barium, mg/L	0.0558	0.0502
Benzene, ug/L	ND	ND
Boron, mg/L	0.394	0.389
Bromide, mg/L	0.62	ND
Calcium, mg/L	1.68	1.50
Chloride, mg/L	63.1	76.0
Diesel Range Organics, mg/L	ND _J	ND
Ethane, mg/L	0.0173	0.0074
Ethylbenzene, ug/L	ND	ND
Fluoride, mg/L	1.7	2.4
Gasoline Range Organics, mg/L	ND	ND
Iron, mg/L	0.118	ND
Magnesium, mg/L	0.454	0.433
Manganese, mg/L	0.0081	0.0056
Methane, mg/L	7.27	4.25
Nitrogen, Nitrate, mg/L	ND	ND
Nitrogen, Nitrite, mg/L	ND	ND
pH, Standard Units	8.60	8.73
Phosphorus, Total, mg/L	0.078	0.049
Propane, mg/L	ND	ND
Potassium, mg/L	1.52	1.23
Selenium, mg/L	ND	ND
Sodium, mg/L	295	285
Specific Conductivity, µmhos/cm	1,650	1,140
Strontium, mg/L	0.0713	0.0645
Sulfate, mg/L	ND	ND
Toluene, ug/L	ND	ND
Total Dissolved Solids, mg/L	914	641
Xylene, Total, ug/L	ND	ND

Notes:

ND (RL) = Non-detect (reporting limit)

Lab qualifiers (i.e. letters next to result) are defined in the lab report

J = Result detected above minimum detection level but below method reporting limit

TABLE 2
ISOTOPIC ANALYSIS RESULTS
Permit #47218-F
Fort Lupton, Colorado
Sample ID: Martin 47218-F

Analyte, Units	3/4/2024 Result	7/16/2024 Result
dD of water, ‰ relative to VSMOW	-102.0	-102.2
d18O of water, ‰ relative to VSMOW	-13.48	-13.45
Tritium content of water, ‰	na	na
d13C of DIC, ‰ relative to VPDB	-9.7	-9.3
14C content of DIC, ‰	na	na
d15N of nitrate, ‰	na	na
d18O of nitrate, ‰	na	na
d34S of sulfate, ‰	na	na
d18O of sulfate, ‰	na	na

Notes:

Isotopic analysis conducted at Isotech Laboratories Inc.

na = not analyzed

TABLE 3
ISOTOPIC ANALYSIS RESULTS
Permit #47218-F
Fort Lupton, Colorado
Sample ID: Martin 47218-F

Analyte, Units	3/4/2024 Result	7/16/2024 Result
Carbon Monoxide, mol %	nd	nd
Helium, mol %	na	na
Hydrogen, mol %	nd	nd
Argon, mol %	0.764 (0.59 mg/L)	0.839 (0.51 mg/L)
Oxygen, mol %	4.72	7.26
Nitrogen, mol %	37.98 (19 mg/L)	43.48 (17 mg/L)
Carbon Dioxide, mol %	0.79	1.24
Methane, mol %	55.64 (17 mg/L)	47.13 (11 mg/L)
Ethane, mol %	0.0934 (0.057 mg/L)	0.0484 (0.023 mg/L)
Ethylene, mol %	nd	nd
Propane, mol %	0.0085 (0.0074 mg/L)	nd
Propylene, mol %	nd	nd
Iso-butane, mol %	0.0005	nd
N-butane, mol %	0.0016	nd
Iso-pentane, mol %	nd	nd
N-pentane, mol %	nd	nd
Hexanes + , mol %	nd	nd

Notes:

Isotopic analysis conducted at Isotech Laboratories, Inc.

^a Chemical compositions are
normalized to 100% (Mol. %)

nd = not detected

na = not analyzed