

**TABLE 1**  
**ACCUTEST ANALYTICAL RESULTS**  
**13017 County Road 30, Permit #125634**  
**Platteville, Colorado**  
**Sample ID: Barclay 125634 Pre**

<b>Analyte, Units</b>	<b>2/5/2019 Result</b>	<b>5/13/2019 Result</b>	<b>8/19/2019 Result</b>	<b>10/31/2019 Result</b>
Alkalinity, Bicarbonate, mg/L	447	439	435	424
Alkalinity, Carbonate, mg/L	18.6	18.7	18.8	ND
Alkalinity, Total, mg/L	465	458	454	424
Bacteria, Iron Reducing, CFU/mL	2,200	2,200	9,000	9,000
Bacteria, Slime Forming, CFU/mL	500	2,500	ND	500
Bacteria, Sulfate Reducing, CFU/mL	6,000	115,000	27,000	115,000
Barium, mg/L	0.0354	0.0340	0.0359	0.0554
Benzene, ug/L	ND	ND	ND	ND
Boron, mg/L	0.185	0.198	0.183	0.172
Bromide, mg/L	0.59	0.59	0.59	0.60
Calcium, mg/L	2.27	2.30	2.15	2.97
Chloride, mg/L	56.3	56.1	59.6	54.3
Diesel Range Organics, mg/L	ND	ND	ND	ND
Ethane, mg/L	0.395	0.473	0.321	0.450
Ethylbenzene, ug/L	ND	ND	ND	ND
Fluoride, mg/L	1.9	1.9	1.9	1.8
Gasoline Range Organics, mg/L	ND	ND	ND	ND
Iron, mg/L	ND	ND	ND	0.0162
Magnesium, mg/L	0.395	0.465	0.413	0.435
Manganese, mg/L	0.0060	0.0064	0.0053	ND
Methane, mg/L	4.03	5.15	3.48	5.43
Nitrogen, Nitrate, mg/L	ND	ND	ND	ND
Nitrogen, Nitrite, mg/L	ND	ND	ND	ND
pH, Standard Units	8.67	8.67	8.64	8.70
Phosphorus, Total, mg/L	0.034	0.031	0.025	0.022
Propane, mg/L	0.176	0.217	0.127	0.188
Potassium, mg/L	1.27	1.31	1.45	1.50
Selenium, mg/L	ND	ND	ND	0.0015
Sodium, mg/L	233	251	223	239
Specific Conductivity, $\mu$ mhos/cm	970	951	815	995
Strontium, mg/L	0.0695	0.0702	0.0673	0.0658
Sulfate, mg/L	ND	ND	ND	ND
Toluene, ug/L	ND	ND	ND	ND
Total Dissolved Solids, mg/L	608	618	612	599
Xylene, Total, ug/L	ND	ND	ND	ND

Notes:

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

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

**TABLE 2**  
**ISOTECH SIW RESULTS**  
**13017 County Road 30, Permit #125634**  
**Platteville, Colorado**  
**Sample ID: Barclay 125634 Pre**

<b>Analyte, Units</b>	<b>2/5/2019 Result</b>	<b>5/13/2019 Result</b>	<b>8/19/2019 Result</b>	<b>10/31/2019 Result</b>
dD of water, ‰ relative to VSMOW	-106.4	-106.7	-105.5	-106.2
d18O of water, ‰ relative to VSMOW	-14.07	-14.01	-13.99	-14.00
Tritium content of water, ‰	na	na	na	na
d13C of DIC, ‰ relative to VPDB	-10.5	-10.6	-10.8	-10.6
14C content of DIC, ‰	na	na	na	na
d15N of nitrate, ‰	na	na	na	na
d18O of nitrate, ‰	na	na	na	na
d34S of sulfate, ‰	na	na	na	na
d18O of sulfate, ‰	na	na	na	na

Notes:

Isotopic analysis conducted at Isotech Laboratories Inc.

na = not analyzed

**TABLE 3**  
**ISOTECH NG4 RESULTS**  
**13017 County Road 30, Permit #125634**  
**Platteville, Colorado**  
**Sample ID: Barclay 125634 Pre**

<b>Analyte, Units</b>	<b>2/5/2019 Result</b>	<b>5/13/2019 Result</b>	<b>8/19/2019 Result</b>	<b>10/31/2019 Result</b>
Carbon Monoxide, mol %	nd	nd	nd	nd
Helium, mol %	na	na	0.0167	na
Hydrogen, mol %	nd	nd	nd	nd
Argon, mol %	0.970 (1.9 mg/L)	0.892 (1.7 mg/L)	0.914 (2.1 mg/L)	0.995 (1.8 mg/L)
Oxygen, mol %	12.47	10.90	12.09	12.14
Nitrogen, mol %	59.66 (76 mg/L)	60.05 (71 mg/L)	63.69 (90 mg/L)	60.92 (68 mg/L)
Carbon Dioxide, mol %	0.29	0.24	0.19	0.33
Methane, mol %	25.33 (20 mg/L)	26.62 (21 mg/L)	22.08 (21 mg/L)	24.40 (17 mg/L)
Ethane, mol %	0.911 (1.5 mg/L)	0.924 (1.4 mg/L)	0.727 (1.4 mg/L)	0.873 (1.3 mg/L)
Ethylene, mol %	nd	nd	nd	nd
Propane, mol %	0.266 (0.60 mg/L)	0.273 (0.59 mg/L)	0.203 (0.54 mg/L)	0.251 (0.50 mg/L)
Propylene, mol %	nd	nd	0.0003	nd
Iso-butane, mol %	0.0357	0.0367	0.0326	0.0329
N-butane, mol %	0.0506	0.0500	0.0370	0.0464
Iso-pentane, mol %	0.0112	0.0104	0.0094	0.0095
N-pentane, mol %	0.0060	0.0055	0.0041	0.0052
Hexanes + , mol %	0.0021	0.0016	0.0015	0.0015

Notes:

Isotopic analysis conducted at Isotech Laboratories, Inc.

<sup>a</sup> Chemical compositions are normalized to 100% (Mol. %)

nd = not detected

na = not analyzed