

Ground-Water Information Center Water Quality Report

Site Name: QUIRK TERRY

Report Date: 5/20/2019

[Compare to Water Quality Standards](#)

Location Information

Sample Id/Site Id:	202799 / 199493	Sample Date:	9/26/2012 2:32:00 PM
Location (TRS):	09S 01E 31 CCCB	Agency/Sampler:	MBMG / CARSTARPHEN, CAMELA
Latitude/Longitude:	45° 0' 2" N 111° 39' 26" W	Field Number:	199493
Datum:	NAD83	Lab Date:	1/23/2013 1:03:02 PM
Altitude:	5650	Lab/Analyst:	MBMG / MCGRATH, STEVE
County/State:	MADISON / MT	Sample Method/Handling:	PUMPED / ru:1 ra:0 fu:1 fa:2
Site Type:	WELL	Procedure Type:	DISSOLVED
Geology:	112SNGR	Total Depth (ft):	65
USGS 7.5' Quad:	BUCKS NEST	SWL-MP (ft):	20.4
PWS Id:		Depth Water Enters (ft):	63
Project:	GWCP08		

Major Ion Results

	mg/L	meq/L		mg/L	meq/L
Calcium (Ca)	28.860	1.440	Bicarbonate (HCO ₃)	135.230	2.216
Magnesium (Mg)	6.450	0.531	Carbonate (CO ₃)	0.000	0.000
Sodium (Na)	15.110	0.657	Chloride (Cl)	7.480	0.211
Potassium (K)	2.380	0.061	Sulfate (SO ₄)	6.640	0.138
Iron (Fe)	<0.015 U	0.000	Nitrate (as N)	0.350	0.025
Manganese (Mn)	<0.002 U	0.000	Fluoride (F)	0.910	0.048
Silica (SiO ₂)	30.770		Orthophosphate (as P)	<0.020 U	0.000
Total Cations		2.696	Total Anions		2.639

Trace Element Results (µg/L)

Aluminum (Al):	0.570 J	Cesium (Cs):	<0.100 U	Molybdenum (Mo):	2.260	Strontium (Sr):	70.170
Antimony (Sb):	0.610	Chromium (Cr):	0.550	Nickel (Ni):	0.390 J	Thallium (Tl):	<0.100 U
Arsenic (As):	29.110	Cobalt (Co):	<0.100 U	Niobium (Nb):	<0.100 U	Thorium (Th):	<0.100 U
Barium (Ba):	18.700	Copper (Cu):	0.690	Neodymium (Nd):	<0.100 U	Tin (Sn):	<0.100 U
Beryllium (Be):	<0.100 U	Gallium (Ga):	<0.100 U	Palladium (Pd):	<0.100 U	Titanium (Ti):	<0.100 U
Boron (B):	58.030	Lanthanum (La):	<0.100 U	Praseodymium (Pr):	<0.100 U	Tungsten (W):	0.420 J
Bromide (Br):	<10.000 U	Lead (Pb):	<0.040 U	Rubidium (Rb):	4.370	Uranium (U):	14.820
Cadmium (Cd):	<0.100 U	Lithium (Li):	81.510	Silver (Ag):	<0.100 U	Vanadium (V):	2.270
Cerium (Ce):	<0.100 U	Mercury (Hg):	NR	Selenium (Se):	0.240 J	Zinc (Zn):	<0.200 U
						Zirconium (Zr):	<0.100 U

Field Chemistry and Other Analytical Results

**Total Dissolved Solids (mg/L):	164.81	Field Hardness as CaCO ₃ (mg/L):	NR	Ammonia (mg/L):	NR
**Sum of Diss. Constituents (mg/L):	233.31	Hardness as CaCO ₃ :	98.61	T.P. Hydrocarbons (µg/L):	NR
Field Conductivity (µmhos):	232	Field Alkalinity as CaCO ₃ (mg/L):	96	PCP (µg/L):	NR
Lab Conductivity (µmhos):	221.2	Alkalinity as CaCO ₃ (mg/L):	110.72	Phosphorus, TD (mg/L):	<0.030 U
Field pH:	7.61	Ryznar Stability Index:	8.381	Field Nitrate (mg/L):	0.000
Lab pH:	7.61	Sodium Adsorption Ratio:	0.6573	Field Dissolved O ₂ (mg/L):	6.560
Water Temp (°C):	11.1	Langlier Saturation Index:	-0.385	Field Chloride (mg/L):	NR
Air Temp (°C):	NR	Nitrite (mg/L as N):	<0.010 U	Field Redox (mV):	135.6
Nitrate + Nitrite (mg/L as N)	0.340	Hydroxide (mg/L as OH):	0.000	Lab, Dissolved Organic Carbon (mg/L):	NR
Total Kjeldahl Nitrogen (mg/L as N)	NR	Lab, Dissolved Inorganic Carbon (mg/L):	NR	Lab, Total Organic Carbon (mg/L):	NR
Total Nitrogen (mg/L as N)	1.070	Acidity to 4.5 (mg/L CaCO ₃)	NR	Acidity to 8.3 (mg/L CaCO ₃)	NR
As(III) (ug/L)	NR	As(V) (ug/L)	NR	Total Susp Solids (mg/L)	NR

Sample Condition: CLEAR

Notes

Field Remarks:
Lab Remarks:

Explanation: mg/L = milligrams per Liter; µg/L = micrograms per Liter; ft = feet; NR = No Reading in GWIC

Qualifiers: A = Hydride atomic absorption; E = Estimated due to interference; H = Exceeded holding time; J = Estimated quantity above detection limit but below reporting limit; K = Na+K combined; N = Spiked sample recovery not within control limits; P = Preserved sample; S = Method of standard additions; U = Undetected quantity below detection limit; * = Duplicate analysis not within control limits; ** = Sum of Dissolved Constituents is the sum of major cations (Na, Ca, K, Mg, Mn, Fe) and anions (HCO₃, CO₃, SO₄, Cl, SiO₂, NO₃, F) in mg/L. Total Dissolved Solids is reported as equivalent weight of evaporation residue.

Disclaimer

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