

Parameter	Domestic Water Supply Standard ¹	MW-1 ⁴		MW-3 ⁴					
		12/11/2018	5/14/2019	12/11/2018	5/13/2019	8/28/2019	11/19/2019	2/26/2020	12/12/2018
Field Parameters									
pH (s.u.)	6.6 – 8.5	7.71	7.16	7.65	7.12	7.13	7.62	7.62	7.55
Temperature (°C)		14.68	20.26	16.4	17	18	17.3	16.9	13.43
Specific Conductance (µS/cm)		587	475	480	379	411	461	448	602
Dissolved Oxygen (mg/l)		4.37	3.98	0.95	6.41	1.18	0.9	0.66	4.2
ORP (mV)		127	127	88.5	70	9	30.5	44.6	48.7
Turbidity (NTU)		743	920	> 1000	821	24.2	10.2	--	> 1000
Solution Parameters and Major Ions									
Alkalinity (mg CaCO ₃ /L)		190	188	176	168	--			253
TDS (mg/L)	500	406	417	338	318	--			437
Calcium (mg/L)		67.6	75.8	50.2	48.1	--			81.4
Chloride (mg/L)	250	8	7.5	11.6	9.9	--			8
Potassium (mg/L)		2.9	3.03	2.36	2.13	--			2.55
Magnesium (mg/L)		15.8	15.1	11.4	10.6	--			16.5
Silicon		7.66	7.64	9.95	10.7	--			13
Sodium (mg/L)		23.7	23.1	30.7	28.2	--			22.6
Sulfate (mg/L)	250	99	95.8	63.2	55.7	--			86.3
Nutrients									
Nitrate (N mg/L)	10	5.7	6.5	1.9	2.6	--			0.12
Phosphorus, total (mg/L)		0.28	0.31	0.98	0.41	--			3.1
Dissolved Metals									
Aluminum (mg/L)		< 0.1	< 0.1	< 0.1	< 0.1	--			< 0.1
Antimony (mg/L)	0.006	< 0.008	< 0.008	< 0.008	< 0.008	--			< 0.008
Arsenic (mg/L)	0.01	< 0.0004	0.0004	0.00059	0.00043	--			0.00042
Barium (mg/L)	2	0.0183	0.0207	0.0314	0.0189	--			0.0391
Cadmium (mg/L)	0.005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	--			< 0.0002
Chromium, total (mg/L)	0.1	< 0.004	< 0.004	< 0.004	< 0.004	--			< 0.004
Cobalt (mg/L)		< 0.002	< 0.001 ^a	< 0.0004	< 0.0004	--			< 0.002
Copper (mg/L)	1	< 0.004	< 0.004	< 0.004	< 0.004	--			0.0084
Iron (mg/L)	0.3	0.179	0.122	0.139	0.0822	--			0.221
Lead (mg/L)	0.05	< 0.001	< 0.001	< 0.001	< 0.001	--			< 0.001
Manganese (mg/L)	0.05	0.005	0.0029	0.0098	0.0128	--			0.0241
Molybdenum (mg/L)	0.21	0.04	0.0188	0.141	0.155	--			0.0383
Nickel (mg/L)	0.1	0.0052	< 0.0040	< 0.0040	0.0112	--			0.0102
Selenium (mg/L)	0.05	0.0029	0.0038	0.0032	0.0022	--			0.0012
Uranium (mg/L)	0.03	0.0173	0.0137	0.0212	0.0197	0.0167			0.0382
Zinc (mg/L)	5	< 0.020	< 0.020	< 0.020	< 0.020	--			< 0.020
Radionuclides									
Gross Alpha (pCi/L)		19	18	47	47	38	38.8	--	120
Adjusted Gross Alpha (pCi/L) ²	15	7.41	8.82	32.8	33.8	26.81	27.11 ³	--	94.41
Gross Beta (pCi/L)	50 pCi/L screening	22	28	71	65	14	17.5	--	200
Radium 226 (pCi/L)	5 ⁴	1	1.2	2.3	1.3 ⁵	0.6	0.15	--	4.4 ⁵
Radium 228 (pCi/L)	5 ⁴	1.5	2.7	2.2	9.7 ⁵	1.9	1.32	--	3.1 ⁵
Uranium 234 (pCi/L)		16	19	21	17	20.8	21.6	--	25
Uranium 235 (pCi/L)		0.07	0	1.2	-0.27	0.505	0.475	--	0.96
Uranium 238 (pCi/L)		9.06	6.45	9.99	7.28	7.66	8.53	--	17.2

Notes: ¹ Domestic water supply standards from Code of Colorado Regulations CCR5 1002-41

² The adjusted gross alpha level is the gross alpha level coreected for the uranium concentration.

³ Uranium was not analyzed in this sample, so the lowest uranium concentration detected in this well was used.

⁴ This is the United Staes Environmental Protection Agency proposed standard, there is currently no domestic water supply standard for radium.

⁵ The sum of radium 226 and 228 for the sample exceeds the domestic water supply standard per the 2000 EPA radionuclides rule.

Data Source ERM 2020

Bolded and shaded values exceed domestic water supply standards in CCR5 1002-41

-- No test performed

MW-10 ⁴			
5/13/2019	8/28/2019	11/19/2020	2/26/2020
6.64	6.91	6.89	--
12.86	14.71	14.3	--
480	617	735	--
5.05	4.87	5.91	--
110	64	98.9	--
478	330	28.5	--
228	190		--
420	--		--
76.4	--		--
7.5	--		--
1.64	--		--
14.8	--		--
13.2	7.66		--
20	--		--
85.9	--		--
0.087	--		--
0.81	--		--
< 0.1	--		--
< 0.008	--		--
0.0004	--		--
0.034	--		--
< 0.0002	--		--
< 0.004	--		--
< 0.002	--		--
0.0052	--		--
0.14	--		--
< 0.001	--		--
0.005	--		--
0.0073	--		--
< 0.0040	--		--
0.0012	--		--
0.0167	0.0126		--
< 0.020	--		--
25	31	18	--
13.81	22.56	9.56 ³	--
34	20	7.25	--
1.4	2.6 ⁵	1.32	--
2.6	2.6 ⁵	1.32	--
11	10.1	9.88	--
-0.64	0.277	0.219	--
7.44	5.95	4.53	--



STATE OF
COLORADO

Cazier - DNR, Tim <tim.cazier@state.co.us>

Parkdale revised analytical

1 message

David Bieber <David.Bieber@martinmarietta.com>
To: "Cazier - DNR, Tim" <tim.cazier@state.co.us>

Fri, Aug 6, 2021 at 8:39 AM

David W. Bieber, PG

Manager of Geology/Survey | West Division

Martin Marietta

1627 Cole Blvd Suite 200

Lakewood, CO 80401

t. 720-245-6423 m. 916-870-6635 f. 303-657-4351

e. david.bieber@martinmarietta.com

www.martinmarietta.com



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