

STATE OF
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

CMC water monitoring

Avrom Howard <aeh@nebuconsulting.com>

Tue, Jun 30, 2020 at 12:50 PM

To: "Eschberger - DNR, Amy" <amy.eschberger@state.co.us>

Cc: Mike Bynum <Mike@bzrez.com>

Hello Amy:

Please find attached, below, water monitoring analytical results for Q2/2020; these rows of current data are highlighted for easier viewing. Please confirm receipt and that the format is acceptable.

I will be in Colorado and on site on the Gold Hill property over the coming 2-3 weeks. Should the opportunity arise I would look forward to meeting with you and your colleagues there or in Denver, if the current protocols allow.

Regards,

Avrom Howard
COLORADO MILLING COMPANY

2 attachments

**20-06 GHM M-1983-141 water data.pdf**

86K

**20-06 GHM M-1994-117 water data.pdf**

89K

LOCATIONS			WELL MEASUREMENTS						WATER ANALYSES (ppm)							
LOCATION ID	NORTHING	EASTING	DATE	TIME	DEPTH (ft)	pH	TEMP (°C)	CONDUCTIVITY (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate
W1			12/15/16	9:20	39.58	7.94	7.9	602	0161215 W1	12/16/16	-	-	0.006	0.01	380	191
W2			12/15/16	9:35	50.42	7.63	7.7	754	0161215 W2	12/16/16	-	-	<0.02	0.39	512	275
W3			12/15/16	9:45	26.08	7.48	8.0	721	0161215 W3	12/16/16	-	-	<0.02	<0.02	452	168
W4			12/15/16	10:00	30.42	7.46	7.8	675	0161215 W4	12/16/16	-	-	0.237	<0.02	422	150
TP			12/15/16	-	-	-	frozen	-	-	-	-	-	-	-	-	-
W1			03/20/17	10:22	41.50	7.93	9.3	632	0170320 W1	03/21/17	-	-	0.008	0.01	408	213
W2			03/20/17	10:37	57.33	7.72	9.3	778	0170320 W2	03/21/17	-	-	<0.02	0.45	552	285
W3			03/20/17	10:47	28.17	7.50	8.8	746	0170320 W3	03/21/17	-	-	<0.02	0.02	464	164
W4			03/20/17	10:54	32.67	7.57	8.4	695	0170320 W4	03/21/17	-	-	0.075	<0.02	436	155
TP			03/20/17	11:50	-	7.80	8.1	637	0170320 T.P.	03/21/17	0.0013	<0.0001	1.410	<0.02	2,040	1,330
W1			06/21/17	11:00	33.70	7.84	10.4	414	0170621 W1	06/22/17	-	-	<0.02	0.13	236	102
W2			06/21/17	11:08	31.60	7.25	10.0	558	0170621 W2	06/22/17	-	-	<0.02	0.14	350	195
W3			06/21/17	11:20	20.10	7.25	9.5	649	0170621 W3	06/22/17	-	-	0.130	<0.02	388	159
W4			06/21/17	11:25	26.80	7.10	10.1	399	0170621 W4	06/22/17	-	-	0.009	0.06	226	58
TP			06/21/17	12:12	-	7.36	21.6	246	0170621 TP	06/22/17	0.0015	<0.0001	0.270	<0.02	2,120	1,380
W1			09/20/17	10:55	37.90	8.00	9.3	430	0170920-W1	09/21/17	-	-	<0.02	0.01	226	110
W2			09/20/17	11:10	41.60	7.53	9.4	642	0170920-W2	09/21/17	-	-	<0.02	0.20	394	226
W3			09/20/17	11:20	25.00	7.42	8.8	586	0170920-W3	09/21/17	-	-	<0.02	0.02	330	138
W4			09/20/17	11:26	30.30	7.10	8.3	472	0170920-W4	09/21/17	-	-	<0.02	<0.02	286	98
TP			09/20/17	12:20	-	7.68	14.0	324	0170920-TP	09/21/17	0.0019	<0.0001	0.060	<0.02	2,800	1,890
W1			12/19/17	10:30	38.70	7.81	9.1	575	017/012/19 W1	12/21/17	-	-	<0.02	0.02	334	159
W2			12/19/17	10:41	43.30	7.84	8.6	715	017/012/19 W2	12/21/17	-	-	<0.02	0.32	476	241
W3			12/19/17	10:56	41.80	6.76	8.1	622	017/012/19 W3	12/21/17	-	-	<0.02	<0.02	390	153
W4			12/19/17	11:09	31.30	7.39	7.9	625	017/012/19 W4	12/21/17	-	-	0.009	<0.02	380	121
TP			12/19/17	10:00	-	-	-	-	017/012/19 TP	12/21/17	0.0017	0.0002	<0.02	0.04	3,380	1,970
W1			03/13/18	10:55	41.30	7.85	9.0	566	018-03-13 W1	03/14/18	0.0003	0.0001	<0.02	0.01	364	165
W2			03/13/18	11:10	52.30	7.75	8.4	727	018-03-13 W2	03/14/18	-	-	<0.02	0.31	506	246
W3			03/13/18	11:20	28.20	7.32	8.1	655	018-03-13 W3	03/14/18	-	-	<0.02	0.02	414	153
W4			03/13/18	11:30	33.20	8.00	7.9	746	018-03-13 W4	03/14/18	-	-	0.357	<0.02	476	167
TP			03/13/18	-	-	-	-	-	-	-	-	-	-	-	-	-
W1			06/14/18	10:15	33.50	7.87	10.0	403	018-12-10-W1	12/11/18	<0.0004	0.00014	<0.02	0.01	254	115
W2			06/14/18	10:20	33.33	7.74	9.7	533	018-12-10-W2	12/11/18	-	-	<0.02	0.18	434	211
W3			06/14/18	10:27	21.08	7.46	9.2	672	018-12-10-W3	12/11/18	-	-	<0.02	0.01	394	155
W4			06/14/18	10:40	27.08	7.40	9.3	704	018-12-10-W4	12/11/18	-	-	0.122	<0.02	430	164
TP			06/14/18	9:30	-	7.65	19.6	1,800	-	-	-	-	-	-	-	-
W1			09/18/18	10:20	38.10	8.18	10.5	411	018-03-13 W1	10/02/18	<0.0004	0.0002	<0.02	<0.02	252	110
W2			09/18/18	10:35	43.40	7.45	10.3	627	018-03-13 W2	10/02/18	-	-	<0.02	0.17	416	207
W3			09/18/18	10:40	27.10	7.75	19.3	662	018-03-13 W3	10/02/18	-	-	<0.02	0.02	404	181
W4			09/18/18	19:50	31.50	7.40	9.5	747	018-03-31 W4	10/02/18	-	-	0.087	<0.02	472	172
TP			09/18/18	12:56	-	7.25	7.6	1,524	018-03-BTP	10/02/18	0.0009	<0.0001	<0.02	<0.02	3,470	2,540
W1			12/10/18	9:20	40.08	8.02	8.2	443	018-12-10-W1	12/11/18	<0.0004	0.00014	<0.02	0.01	254	115
W2			12/10/18	9:35	51.33	7.59	7.6	642	018-12-10-W2	12/11/18	-	-	<0.02	0.18	434	211
W3			12/10/18	9:50	28.42	7.47	7.6	636	018-12-10-W3	12/11/18	-	-	<0.02	0.01	394	155
W4			12/10/18	10:00	30.58	7.43	7.2	694	018-12-10-W4	12/11/18	-	-	0.122	<0.02	430	164
TP			12/10/18	-	-	-	-	-	-	-	-	-	-	-	-	-
W1			03/24/19	10:41	38.08	8.12	9.1	321	0190325 W1	03/26/19	0.0003	0.00013	<0.02	<0.02	232	77

LOCATIONS			WELL MEASUREMENTS						WATER ANALYSES (ppm)							
LOCATION ID	NORTHING	EASTING	DATE	TIME	DEPTH (ft)	pH	TEMP (°C)	CONDUCTIVITY (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate
W2			03/24/19	10:55	56.58	7.71	8.7	580	0190325 W2	03/26/19	-	-	<0.02	0.02	432	151
W3			03/24/19	11:10	30.33	7.31	8.1	646	0190325 W3	03/26/19	-	-	<0.02	0.13	436	197
W4			03/24/19	11:25	35.75	7.40	7.8	651	0190325 W4	03/26/19	-	-	0.023	<0.02	424	140
TP			03/24/19	-	-	-	frozen	-	-	-	-	-	-	-	-	-
W1			06/24/19	8:15	29.50	8.10	8.1	452	0190624-W-1	06/25/19	<0.0004	0.00025	<0.02	0.02	262	120
W2			06/24/19	8:26	29.08	7.74	7.7	523	0190624-W-2	06/25/19	-	-	<0.02	0.08	350	155
W3			06/24/19	8:35	20.25	7.35	7.4	638	0190624-W-3	06/25/19	-	-	<0.02	<0.02	414	159
W4			06/24/19	8:45	26.75	7.26	7.4	409	0190624-W-4	06/25/19	-	-	<0.02	<0.02	230	43
TP			06/24/19	10:30	-	7.40	8.7	1,655	0190624-TP	06/25/19	0.0007	0.00018	0.140	0.02	1,610	943
W1			09/23/19	9:35	38.17	8.28	9.2	531	0190923 W1	10/09/19	<0.0004	0.00021	<0.02	0.02	328	158
W2			09/23/19	9:45	41.17	7.56	9.1	567	0190923 W2	10/09/19	-	-	<0.02	0.14	374	180
W3			09/23/19	9:55	26.42	7.63	8.6	571	0190923 W3	10/09/19	-	-	<0.02	<0.02	342	129
W4			09/23/19	10:00	30.42	7.21	8.3	522	0190923 W4	10/09/19	-	-	0.010	<0.02	316	91
TP			09/23/19	9:10	-	8.06	11.2	1,999	0190923 TP	10/09/19	0.0007	<0.0001	<0.02	0.45	2,020	1,220
W1			12/16/19	11:25	42.50	7.95	8.5	523	L56482-02	12/16/19	0.0002	0.00019	<0.01	0.06	314	155
W2			12/16/19	12:35	50.20	7.59	7.9	590	L56482-03	12/16/19	-	-	<0.01	0.16	378	172
W3			12/16/19	12:50	27.80	7.65	7.9	569	L56482-04	12/16/19	-	-	<0.01	0.01	332	132
W4			12/16/19	13:15	31.70	7.36	6.7	586	L56482-05	12/16/19	-	-	<001	0.07	370	122
TP			12/16/19	-	-	-	frozen	-	-	-	-	-	-	-	-	-
W1			03/31/20	11:15	23.71	8.21	9.1	197	L58245-02	03/30/20	0.0004	0.00013	<0.01	<0.02	140	38.5
W2			03/31/20	11:30	43.40	7.78	9.5	228	L58245-03	03/30/20	-	-	<0.01	<0.02	164	49.2
W3			03/31/20	11:55	20.54	7.24	8.6	701	L58245-04	03/30/20	-	-	0.02	0.03	440	172
W4			03/31/20	12:20	32.33	6.82	9.0	780	L58245-05	03/30/20	-	-	1.03	<0.02	468	159
TP			03/31/20	-	-	-	frozen	-	-	-	-	-	-	-	-	-
W1			06/16/20	9:40	36.00	8.43	9.7	420	L59761-03	06/18/20	<0.0002	0.00016	<0.01	<0.02	250	114
W2			06/16/20	10:00	32.67	8.08	9.3	538	L59761-04	06/18/20	-	-	<0.01	0.07	350	174
W3			06/16/20	10:15	22.75	7.29	9.0	640	L59761-05	06/18/20	-	-	0.05	<0.02	404	155
W4			06/16/20	10:25	20.25	7.25	11.0	923	L59761-06	06/18/20	-	-	0.02	<0.02	234	55.4
TP			06/16/20	9:10	-	8.01	11.4	1989	L59761-01	06/18/20	0.0017	<0.0001	<0.01	<0.02	1,560	917
W1																
W2																
W3																
W4																
TP																
W1																
W2																
W3																
W4																
TP																
W1																
W2																

COLORADO MILLING COMPANY

Well Water Data, Permit M-1994-117

[illegible]

LOCATIONS			WELL MEASUREMENTS						WATER ANALYSES (ppm)							
LOCATION ID	NORTHING	EASTING	DATE	TIME	DEPTH (ft)	pH	TEMP (°C)	CONDUCTIVITY (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate
MW1			12/15/16	9:02	66.42	8.60	7.7	1,650	0161215 MW1	12/16/16	0.0006	0.0001	0.257	0.04	1,520	849
MW5			12/15/16	10:20	26.42	7.79	10.7	888	0161215M W5	12/16/16	0.0035	0.0002	0.073	<0.02	660	331
CM			12/15/16	10:50	-	7.98	-	-	-	-	-	-	-	-	-	-
CG			12/15/16	-	-	-	3.7	460	0161215 CG	12/16/16	0.0002	0.0008	0.033	0.22	250	145
MW1			03/20/17	10:08	71.00	7.92	9.1	1,672	0170320 MW1	03/21/17	0.0009	0.0006	0.084	0.06	1,550	930
MW5			03/20/17	11:10	27.00	7.53	10.0	886	0170320 MW5	03/21/17	0.004	0.0003	0.032	<0.02	664	324
CM			03/20/17	11:22	-	8.20	8.3	1,059	0170320 CM	03/21/17	0.0003	0.0016	<0.02	0.51	826	456
CG			03/20/17	11:34	-	8.01	6.2	538	0170320 CG	03/21/17	<0.0004	0.0011	0.019	0.35	346	196
MW1			06/21/17	10:45	73.10	8.34	11.8	1,667	0170621 MW1	06/22/17	0.0007	0.0002	0.220	0.08	1,480	935
MW5			06/21/17	11:45	24.10	7.57	11.3	897	0170621 MW5	06/22/17	0.0035	0.0002	0.017	<0.02	648	354
CM			06/21/17	12:05	-	7.40	11.6	1,217	0170621 CM	06/22/17	0.0005	0.019	2.900	5.62	1,010	586
CG			06/21/17	12:45	-	7.56	14.1	436	0170621 CG	06/22/17	0.0002	0.0011	0.015	0.29	276	167
MW1			09/20/17	10:40	70.90	8.92	19.6	1,653	0170920-MW1	09/21/17	0.0006	0.0007	0.122	0.10	1,450	959
MW5			09/20/17	11:52	26.50	7.87	12.0	888	0170920-MW5	09/21/17	0.0031	0.0003	0.022	0.01	622	307
CM			09/20/17	11:44	-	7.45	13.9	1,323	0170920-CMP	09/21/17	0.0005	0.0083	2.270	3.03	1,120	687
CG			09/20/17	12:01	-	7.85	11.5	466	0170920-CG	09/21/17	0.0003	0.001	0.021	0.24	286	152
MW1			12/19/17	10:19	70.60	8.09	8.9	1,681	017/012/19 MW1	12/21/17	0.001	0.0011	0.147	0.14	1,460	829
MW5			12/19/17	12:25	26.10	7.28	11.0	891	017/012/19 MW5	12/21/17	0.0027	0.0002	0.007	<0.02	656	322
CM			12/19/17	12:35	-	7.90	3.1	1,372	017/012/19 CMP	12/21/17	0.0004	0.008	2.020	3.41	1,070	612
CG			12/19/17	12:50	-	8.10	4.2	640	017/012/19 CG	12/21/17	<0.0004	0.0015	0.013	0.44	396	223
MW1			03/13/18	10:45	68.70	8.46	8.8	1,607	018-03-13 MW1	03/14/18	0.001	0.0005	0.147	0.13	1,500	901
MW5			03/13/18	12:15	24.80	7.75	9.7	918	018-03-13 MW5	03/14/18	0.0037	0.0003	0.018	0.01	666	329
CM			03/13/18	12:00	-	6.53	12.8	18,857	018-03-13 CM	03/14/18	0.0008	0.0008	15.100	1.16	1,870	1,160
CG			03/13/18	12:36	-	7.92	5.5	617	018-03-13 CG	03/14/18	<0.0004	0.0014	0.011	0.39	420	221
MW1			06/14/18	10:05	64.58	7.16	9.6	1,604	018-12-10-MW1	12/11/18	0.005	0.00007	0.010	0.04	1,440	814
MW5			06/14/18	11:50	20.50	7.86	7.9	919	018-12-10-MW5	12/11/18	0.0017	0.003	0.015	0.01	662	337
CM			06/14/18	11:55	-	7.70	17.0	1,165	018-12-10-CG	12/11/18	<0.0004	0.001	0.010	0.32	350	206
CG			06/14/18	12:25	-	7.78	13.9	514	-	-	-	-	-	-	-	-
MW1			09/18/18	10:07	63.90	8.10	10.7	1,457	018-03-13 MW1	10/02/18	0.0006	0.000016	0.008	0.06	1,470	857
MW5			09/18/18	11:15	20.10	7.71	13.1	907	018-03-31 MW5	10/02/18	0.0017	0.00034	<0.02	<0.02	666	331
CM			09/18/18	11:30	-	7.81	16.3	1,220	018-03-31 CM	10/02/18	0.0003	0.00609	1.290	2.87	1,040	553
CG			09/18/18	11:50	-	7.64	15.8	513	018-03-31 CG	10/02/18	<0.0004	0.00105	0.031	0.20	336	179
MW1			12/10/18	9:10	69.25	7.63	7.9	1,520	018-12-10-MW1	12/11/18	0.0005	0.00007	0.010	0.04	1,440	814
MW5			12/10/18	10:45	25.00	7.84	10.6	858	018-12-10-MW5	12/11/18	0.0017	0.0003	0.015	0.01	662	337
CM			12/10/18	-	-	-	-	-	018-12-10-CG	12/11/18	<0.0004	0.001	0.010	0.32	350	260
CG			12/10/18	11:15	-	7.96	1.7	591	-	-	-	-	-	-	-	-
MW1			03/24/19	10:30	72.08	8.18	8.6	1,570	0190325 MW1	03/26/19	0.0007	0.00009	0.019	0.05	1,450	866
MW5			03/24/19	11:45	24.08	7.77	8.1	916	0190325 MW5	03/26/19	0.0017	0.00021	0.006	<0.02	688	327
CM			03/24/19	-	-	-	-	-	-	-	-	-	-	-	-	-
CG			03/24/19	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1			06/24/19	8:05	67.25	7.95	8.5	1,555	0190624-MW1	06/25/19	0.0005	0.00016	0.030	0.03	1,420	777
MW5			06/24/19	9:10	20.58	7.76	8.6	892	0190624-MW-5	06/25/19	0.0016	0.00025	0.010	<0.02	686	309
CM			06/24/19	9:20	-	7.60	7.6	1,442	0190624-CMP	06/25/19	0.0004	0.0184	4.790	5.89	1,270	760
CG			06/24/19	9:40	-	7.88	8.3	449	0190624-CG	06/25/19	<0.0004	0.00066	<0.02	0.19	290	151
MW1			09/23/19	9:25	72.08	8.10	9.0	1,598	0190923 MW1	10/09/19	0.0006	0.00015	0.090	0.05	1,440	853
MW5			09/23/19	10:25	22.62	7.67	12.6	879	0190923 MW5	10/09/19	0.0017	0.00023	0.010	<0.02	680	336

[illegible]