



April 4, 2024

Colorado Division of Reclamation, Mining and Safety
ATTN: Nikie Gagnon
1313 Sherman St. Suite 215
Denver, CO 80203

Re: M-1980-183 Quarterly Groundwater Monitoring Results Submission

Ms. Gagnon,

Please find attached quarterly groundwater level monitoring data for Brannan Sand and Gravel Company's Pit 29 facility for the 1st Quarter 2024:

- Attachment A
 - Table 1: Well Information
 - Table 2: Groundwater Elevation Measurements
- Attachment B
 - Graph of Groundwater Elevations
- Attachment C
 - Monitoring Well Location Map

The hydrologic balance is being kept in check by the French drain, as verified by the readings from MW-4. There have not been any offsite impacts associated with hydrologic balance issues observed since the French drain was installed. MW-2 groundwater levels appear to be similar to previous years and are currently exhibiting seasonal fluctuations. MW-1 groundwater levels are exhibiting seasonal fluctuations. The groundwater levels in MW-1 have remained within a steady range since early 2019.

Please let me know if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Scott Legg". The signature is fluid and cursive, with the first and last names clearly legible.

Scott Legg
Environmental Manager
Brannan Sand and Gravel Company, L.L.C.
303-472-1736
slegg@brannan1.com

Attachments

Attachment A

Well Information & Water Elevation Measurements

Brannan Sand Gravel Company, LLC
Pit 29: M-1980-183 Quarterly Groundwater Monitoring
Attachment A

Table 1: Well Information			
Well Information	MW-1 OUT	MW-2 OUT	MW-4 OUT
Location	39.92871, -104.85185	39.92290, -104.85384	39.92887 -104.85898
Land Surface Elevation (ft)	5031.8	5039.2	5014.2
Top of Casing Elevation (ft)	5032.7	5042.0	5016.5
Total Depth (ft)	46	35	30
Screened Interval (ft)	No data	10-25	10-30
Completion Date	No data	4/19/1960	9/7/2010

Table 2: Water Level Measurements			
Date	MW-1 OUT	MW-2 OUT	MW-4 OUT
9/1/2010	5011.83	5020.30	4992.82
12/1/2010	5010.93	5016.04	4987.97
3/1/2011	5011.27	5019.80	4989.56
6/1/2011	5012.43	5023.46	4992.42
9/1/2011	5012.89	5020.57	4993.14
12/1/2011	5011.63	5018.10	4993.07
3/1/2012	5010.88	5028.90	4996.47
6/1/2012	5010.94	5020.73	5000.13
9/12/2012	5010.86	5019.99	5008.58
11/12/2012	-	-	5009.38
12/12/2012	5010.04	5018.66	5008.55
4/13/2013	5008.99	5021.04	5008.61
4/22/2013	5009.28	5019.50	5008.92
6/13/2013	5009.36	5020.42	5008.62
9/1/2013	5010.17	5020.05	5009.70
12/13/2013	5008.64	5018.60	5008.62
3/14/2014	5007.68	5022.45	5008.13
6/14/2014	5008.52	5021.45	5009.04
9/14/2014	5008.92	5020.40	5009.58
11/14/2014	5008.23	5019.58	5008.99
12/1/2014	5006.98	5018.72	5008.20
3/31/2015	5004.96	5021.71	5007.44
6/15/2015	5010.04	5022.51	5009.43
9/15/2015	5011.89	5021.45	5008.95
12/15/2015	5010.41	5020.05	5007.68
4/6/2016	5008.72	5019.14	5005.07
7/13/2016	5011.17	5020.56	5007.89
8/30/2016	5011.22	5019.34	5005.21
9/27/2016	5011.05	5018.83	5005.45
10/31/2016	5011.30	5018.29	5005.13
11/21/2016	5011.25	5018.15	5005.17
12/28/2016	5010.22	5017.27	5005.07

Brannan Sand Gravel Company, LLC
Pit 29: M-1980-183 Quarterly Groundwater Monitoring

Attachment A

1/26/2017	5009.34	5016.89	5005.02
2/27/2017	5008.39	5016.60	5005.02
3/28/2017	5008.48	5019.42	5005.03
5/22/2017	5010.71	5019.95	5005.32
6/14/2017	5011.07	5020.32	5005.31
7/17/2017	5012.15	5020.60	5005.28
8/11/2017	5012.02	5019.70	5006.11
9/11/2017	5011.86	5019.60	5005.26
10/16/2017	5011.41	5018.90	5005.23
11/21/2017	5009.35	5017.62	5005.10
12/19/2017	5009.44	5017.06	5005.16
1/19/2018	5008.51	5016.62	5005.00
2/16/2018	5007.93	5016.39	5004.95
3/12/2018	5007.35	5016.20	5004.84
4/30/2018	5009.03	5019.01	5005.00
5/21/2018	5009.88	5019.45	5005.04
6/22/2018	5011.03	5020.12	5005.17
7/12/2018	5011.33	5019.96	5005.16
8/15/2018	5011.23	5019.37	5005.21
9/5/2018	5010.08	5019.09	5005.17
10/18/2018	5013.88	5018.39	5005.17
11/19/2018	5014.79	5017.72	5005.07
12/14/2018	5014.49	5017.33	5005.02
2/28/2019	5013.62	5016.71	5004.92
3/28/2019	5013.39	5016.59	5004.91
4/30/2019	5013.31	5019.60	5004.99
5/31/2019	5015.65	5020.08	5005.10
6/20/2019	5016.27	5020.63	5005.17
7/18/2019	5016.64	5021.34	5005.22
9/27/2019	5016.54	5019.91	5005.21
10/21/2019	5016.43	5019.51	5005.21
11/25/2019	5015.87	5018.25	5005.18
1/3/2020	5015.39	5017.80	5005.03
1/27/2020	5015.10	5017.58	5005.03
2/19/2020	5014.78	5017.43	5005.00
3/10/2020	5014.58	5017.31	5004.99
4/15/2020	5015.30	5020.01	5005.09
5/12/2020	5016.10	5020.67	5005.14
6/15/2020	5016.51	5021.19	5005.22
7/14/2020	5016.76	5021.07	5005.24
8/14/2020	5016.43	5020.10	5005.23
9/14/2020	5016.28	5019.59	5005.22
10/12/2020	5016.13	5019.34	5005.20
11/12/2020	5015.82	5018.25	5005.16
12/21/2020	5015.18	5017.67	5005.06
1/13/2021	5014.83	5017.47	5004.99
2/16/2021	5014.29	5017.15	5004.99

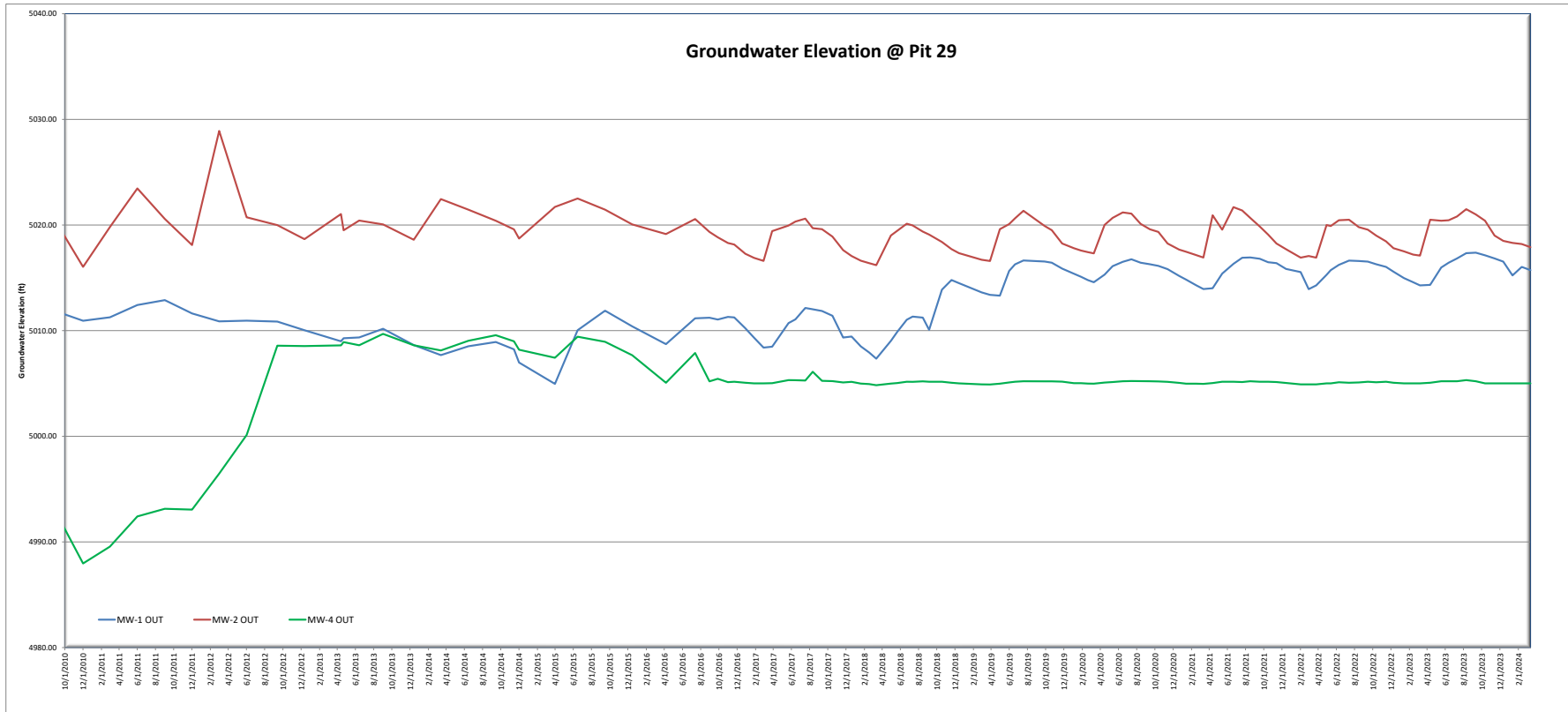
Brannan Sand Gravel Company, LLC
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3/12/2021	5013.94	5016.92	5004.97
4/12/2021	5014.01	5020.92	5005.04
5/14/2021	5015.40	5019.55	5005.17
6/21/2021	5016.32	5021.69	5005.17
7/20/2021	5016.90	5021.37	5005.14
8/16/2021	5016.93	5020.67	5005.22
9/17/2021	5016.80	5019.85	5005.17
10/15/2021	5016.48	5019.09	5005.17
11/12/2021	5016.39	5018.25	5005.14
12/14/2021	5015.84	5017.71	5005.05
2/1/2022	5015.54	5016.91	5004.92
2/28/2022	5013.93	5017.06	5004.92
3/25/2022	5014.28	5016.91	5004.92
4/29/2022	5015.28	5020.00	5005.02
5/13/2022	5015.73	5019.90	5005.02
6/9/2022	5016.23	5020.45	5005.12
7/13/2022	5016.63	5020.50	5005.07
8/15/2022	5016.59	5019.79	5005.10
9/14/2022	5016.53	5019.55	5005.17
10/12/2022	5016.28	5019.00	5005.12
11/14/2022	5016.03	5018.45	5005.17
12/9/2022	5015.58	5017.80	5005.07
1/13/2023	5014.98	5017.50	5005.02
2/13/2023	5014.58	5017.20	5005.02
3/8/2023	5014.28	5017.10	5005.02
4/11/2023	5014.33	5020.50	5005.07
5/18/2023	5015.98	5020.40	5005.22
6/12/2023	5016.43	5020.45	5005.22
7/10/2023	5016.83	5020.80	5005.22
8/10/2023	5017.33	5021.50	5005.32
9/11/2023	5017.38	5021.00	5005.22
10/12/2023	5017.13	5020.40	5005.02
11/13/2023	5016.83	5019.00	5005.02
12/12/2023	5016.53	5018.50	5005.02
1/12/2024	5015.23	5018.30	5005.02
2/12/2024	5016.03	5018.20	5005.02
3/12/2024	5015.73	5017.90	5005.02

Attachment B

Graph of Groundwater Elevations



*Missing data from 11/12/2012 for MW-1 & MW-2 has been interpolated to provide graphical continuity.

Attachment C

Monitoring Well Location Map

Pit 29

M-1980-183
Well Location Map



Google Earth

Image © 2024 Airbus

MW-2 OUT

MW-1 OUT

MW-4 OUT

Pit 29



2000 ft