



June 27, 2018

Mr. Joel Bolduc
Aggregate Industries
1687 Cole Boulevard, Suite 300
Golden, CO 80401

RE: Monitoring Well and Staff Gage Monitoring Data Hazeltine Resource June 2018, Adams County Colorado

Dear Mr. Bolduc:

This report presents the monitoring well and staff gage data for the Hazeltine Resource in Adams County Colorado. Included herein are data tables and graphs for Wells HZMW-2, HZMW-11A and HZMW-11B and Staff Gages 2 and 11.

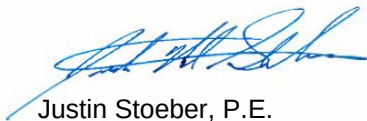
The data indicate that the operation of the Orr drain has lowered the ground water levels observed in HZMW-2 approximately two feet (2') since January 2017; a time of high flow in the Bull Seep. Water levels in wells HZMW-11A and HZMW11B have likewise declined since January 2017, approximately one-foot (1') and one-half-foot (0.5') respectively (Figures 1 through 3).

Data for Staff Gage 2 and 11 are presented on Figures 4 and 5. Staff Gage 2 is located at the upstream end of the Orr Drain and demonstrates that the drain has remained open since March 2018 as evidenced by the water level being slightly above the drain invert elevation.

If you have any questions, please call.

Regards,

TETRA TECH



Justin Stoeber, P.E.



Tom Hesemann, R.G., C.E.G.

cc: Connie Davis

P:\23514\200-23514-18001\Docs\Reports\AI Hazeltine Mon Well & Staff Gage Mon Report 2018 06 27.docx

H2MW-2 Groundwater Elevations Hazeltine Mine, Thornton, Colorado



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AGGREGATE INDUSTRIES
GROUNDWATER LEVELS IN WELLS
NEAR ORR PROPERTY
H2MW-2

Project No.: 200-23514-18001

Date: JUNE 2018

Designed By: JWW

Supplemental

1

Bar Measures 1 inch

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HZMW-11A Groundwater Elevations Hazeltine Mine, Thornton, Colorado



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AGGREGATE INDUSTRIES

GROUNDWATER LEVELS IN WELLS
NEAR ORR PROPERTY

HZMW-11A

Project No.: 200-23514-18001

Date: JUNE 2018

Designed By: JWJ

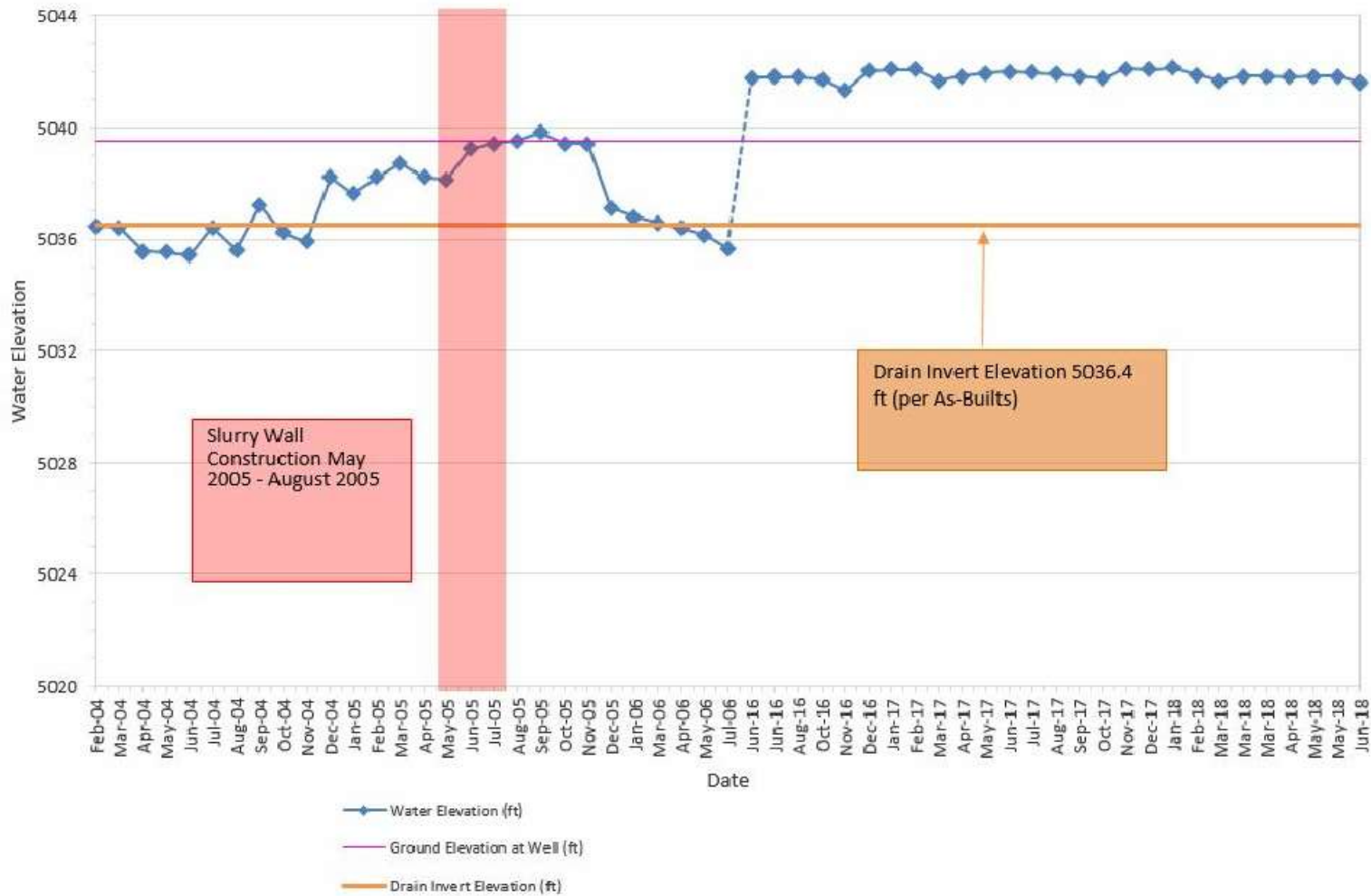
Supplemental

2

Bar Measures 1 inch

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HZMW-11B Groundwater Elevations Hazeltine Mine, Thornton



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AGGREGATE INDUSTRIES

GROUNDWATER LEVELS IN WELLS
NEAR ORR PROPERTY

HZMW-11B

Project No.: 200-23514-18001

Date: JUNE 2018

Designed By: JWJ

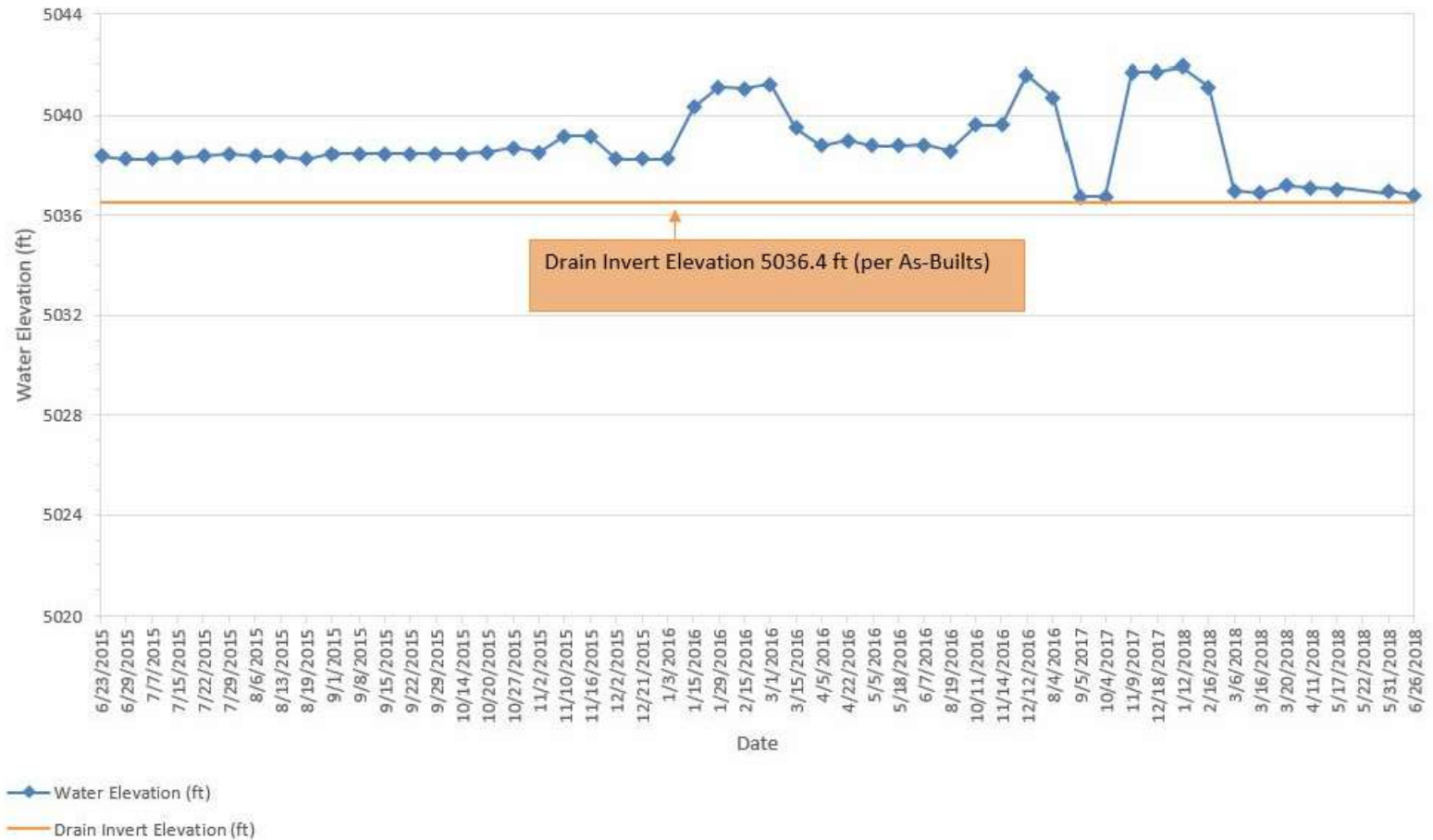
Supplemental

3

Bar Measures 1 inch

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Staff Gauge-2 Groundwater Elevations Hazeltine Mine, Thornton, Colorado



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AGGREGATE INDUSTRIES
GROUNDWATER LEVELS IN WELLS
NEAR ORR PROPERTY
STAFF GAUGE 2

Project No.: 200-23514-18001

Date: JUNE 2018

Designed By: JWJ

Supplemental

4

Bar Measures 1 inch

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AGGREGATE INDUSTRIES

GROUNDWATER LEVELS IN WELLS
NEAR ORR PROPERTY

STAFF GAUGE 11

Project No.: 200-23514-18001

Date: JUNE 2018

Designed By: JWJ

Supplemental

5

Bar Measures 1 inch

GROUNDWATER OBSERVATION DATA SHEETS

6/27/2018

June 2018

HAZELTINE

Aggregate Industries

Date	Water Elevation (ft)			Ground Elevation at Well (ft)			Drain Invert Elevation (ft)
	MW-2	MW-11A	MW-11B	MW-2	MW-11A	MW-11B	
2/16/2004	5035.67	5038.32	5036.47	5041.59	5039.59	5039.51	5036.5
3/11/2004	5035.24	5038.45	5036.42	5041.59	5039.59	5039.51	5036.5
4/6/2004	5034.44	5038.3	5035.57	5041.59	5039.59	5039.51	5036.5
5/6/2004	5034.34	5038.3	5035.52	5041.59	5039.59	5039.51	5036.5
6/7/2004	5034.09	5038.1	5035.42	5041.59	5039.59	5039.51	5036.5
7/9/2004	5035.34	5038.6	5036.42	5041.59	5039.59	5039.51	5036.5
8/5/2004	5034.34	5038	5035.62	5041.59	5039.59	5039.51	5036.5
9/8/2004	5036.64	5039.6	5037.22	5041.59	5039.59	5039.51	5036.5
10/13/2004	5034.94	5038.6	5036.22	5041.59	5039.59	5039.51	5036.5
11/2/2004	5036.54	5038.6	5035.92	5041.59	5039.59	5039.51	5036.5
12/1/2004	5037.84	5039.5	5038.22	5041.59	5039.59	5039.51	5036.5
1/4/2005	5037.04	5039.1	5037.62	5041.59	5039.59	5039.51	5036.5
2/4/2005	5037.14	5039.3	5038.22	5041.59	5039.59	5039.51	5036.5
3/3/2005	5037.04	5039.6	5038.72	5041.59	5039.59	5039.51	5036.5
4/4/2005	5037.34	5039.6	5038.22	5041.59	5039.59	5039.51	5036.5
5/2/2005	5037.44	5039.2	5038.12	5041.59	5039.59	5039.51	5036.5
6/8/2005	5039.94	5039.8	5039.22	5041.59	5039.59	5039.51	5036.5
7/5/2005	5039.94	5039.8	5039.42	5041.59	5039.59	5039.51	5036.5
8/5/2005	5040.04	5039.9	5039.52	5041.59	5039.59	5039.51	5036.5
9/1/2005	5040.34	5040.2	5039.82	5041.59	5039.59	5039.51	5036.5
10/3/2005	5040.14	5040.1	5039.42	5041.59	5039.59	5039.51	5036.5
11/8/2005		5039.7	5039.42	5041.59	5039.59	5039.51	5036.5
11/9/2005	5040.24			5041.59	5039.59	5039.51	5036.5
12/2/2005	5040.14	5040	5037.12	5041.59	5039.59	5039.51	5036.5
1/6/2006		5039.73	5036.78	5041.59	5039.59	5039.51	5036.5
1/9/2006	5040.04			5041.59	5039.59	5039.51	5036.5
2/6/2006	5039.94			5041.59	5039.59	5039.51	5036.5
3/2/2006	5040.34			5041.59	5039.59	5039.51	5036.5
3/16/2006		5039.88	5036.58	5041.59	5039.59	5039.51	5036.5
4/5/2006	5040.14	5040.05	5036.4	5041.59	5039.59	5039.51	5036.5
5/4/2006		5040.4	5036.16	5041.59	5039.59	5039.51	5036.5
6/1/2006	5040.54			5041.59	5039.59	5039.51	5036.5
7/7/2006	5040.64	5040.47	5035.67	5041.59	5039.59	5039.51	5036.5
8/2/2006	5040.84			5041.59	5039.59	5039.51	5036.5
9/5/2006	5040.84			5041.59	5039.59	5039.51	5036.5
10/2/2006	5041.84			5041.59	5039.59	5039.51	5036.5
11/2/2006	5041.64			5041.59	5039.59	5039.51	5036.5
12/4/2006	5041.84			5041.59	5039.59	5039.51	5036.5
7/3/2007	5041.84			5041.59	5039.59	5039.51	5036.5
8/7/2007	5042.24			5041.59	5039.59	5039.51	5036.5
6/7/2016	5040.48	5040.85	5041.77	5041.59	5039.59	5039.51	5036.5
6/15/2016	5040.48	5040.92	5041.8	5041.59	5039.59	5039.51	5036.5
8/19/2016		5041.04	5041.8	5041.59	5039.59	5039.51	5036.5
10/11/2016		5040.97	5041.72	5041.59	5039.59	5039.51	5036.5
11/14/2016		5040.88	5041.33	5041.59	5039.59	5039.51	5036.5
12/12/2016		5041.83	5042.01	5041.59	5039.59	5039.51	5036.5
1/10/2017		5041.76	5042.07	5041.59	5039.59	5039.51	5036.5
2/17/2017		5041.74	5042.07	5041.59	5039.59	5039.51	5036.5
3/20/2017		5041.01	5041.67	5041.59	5039.59	5039.51	5036.5
4/11/2017		5041.12	5041.84	5041.59	5039.59	5039.51	5036.5

Date	Water Elevation (ft)			Ground Elevation at Well (ft)			Drain Invert Elevation (ft)
	MW-2	MW-11A	MW-11B	MW-2	MW-11A	MW-11B	
5/16/2017		5041.16	5041.94	5041.59	5039.59	5039.51	5036.5
6/12/2017		5041.155	5041.98	5041.59	5039.59	5039.51	5036.5
7/10/2017			5041.965	5041.59	5039.59	5039.51	5036.5
7/11/2017		5041.17		5041.59	5039.59	5039.51	5036.5
8/4/2017		5041.05	5041.92	5041.59	5039.59	5039.51	5036.5
9/5/2017		5041.03	5041.82	5041.59	5039.59	5039.51	5036.5
10/4/2017		5041.02	5041.75	5041.59	5039.59	5039.51	5036.5
11/9/2017	5041.8	5041.77	5042.09	5041.59	5039.59	5039.51	5036.5
12/17/2017			5042.07	5041.59	5039.59	5039.51	5036.5
12/18/2017	5041.78	5041.7		5041.59	5039.59	5039.51	5036.5
1/12/2018	5042.02	5041.95	5042.12	5041.59	5039.59	5039.51	5036.5
2/16/2018	5041.25	5041.19	5041.89	5041.59	5039.59	5039.51	5036.5
3/6/2018	5040.91	5040.99	5041.67	5041.59	5039.59	5039.51	5036.5
3/16/2018	5040.59	5041.08	5041.82	5041.59	5039.59	5039.51	5036.5
3/20/2018	5040.64	5041.11	5041.82	5041.59	5039.59	5039.51	5036.5
4/11/2018	5040.6	5041.06	5041.8	5041.59	5039.59	5039.51	5036.5
5/17/2018	5040.08	5041.09	5041.82	5041.59	5039.59	5039.51	5036.5
5/31/2018	5040.04	5041.11	5041.82	5041.59	5039.59	5039.51	5036.5
6/26/2018	5039.84	5040.89	5041.60	5041.59	5039.59	5039.51	5036.5

STAFF GAUGE OBSERVATION DATA SHEETS				6/27/2018
June 2018				
HAZELTINE				Aggregate Industries
Date	Water Elevation (ft)			Drain Invert Elevation (ft)
	SG-2	SG-11	FLUME	
06/23/15	5038.36	5039.88		5036.50
06/29/15	5038.26	5039.98		5036.50
07/07/15	5038.26	5040.03		5036.50
07/15/15	5038.31	5039.83		5036.50
07/22/15	5038.36	5039.98		5036.50
07/29/15	5038.46	5039.78		5036.50
08/06/15	5038.36	5039.98		5036.50
08/13/15	5038.36	5039.98		5036.50
08/19/15	5038.26			5036.50
09/01/15	5038.46	5039.88		5036.50
09/08/15	5038.46	5039.88		5036.50
09/15/15	5038.46	5039.78		5036.50
09/22/15	5038.46	5039.88		5036.50
09/29/15	5038.46			5036.50
09/30/15		5039.88		5036.50
10/14/15	5038.46	5039.78		5036.50
10/20/15	5038.56	5039.88		5036.50
10/27/15	5038.71	5039.78		5036.50
11/02/15	5038.56	5039.78		5036.50
11/10/15	5039.16	5039.78		5036.50
11/16/15	5039.16	5039.78		5036.50
12/02/15	5038.26	5041.08		5036.50
12/21/15	5038.26	5040.38		5036.50
01/03/16	5038.26	5040.18		5036.50
01/15/16	5040.30	5039.88		5036.50
01/29/16	5041.15	5040.58		5036.50
02/15/16	5041.10	5040.58		5036.50
03/01/16	5041.25	5040.83		5036.50
03/15/16	5039.50	5039.83		5036.50
04/05/16	5038.80	5039.88		5036.50
04/22/16	5039.00	5039.88		5036.50
05/05/16	5038.80	5039.88		5036.50
05/18/16	5038.80	5039.88		5036.50
06/07/16	5038.82			5036.50
08/19/16	5038.60			5036.50
10/11/16	5039.60			5036.50
11/14/16	5039.60			5036.50
12/12/16	5041.60			5036.50
08/04/16	5040.70			5036.50
08/19/16		5040.08		5036.50
10/11/16		5039.98		5036.50

Date	Water Elevation (ft)			Drain Invert Elevation (ft)
	SG-2	SG-11	FLUME	
11/14/16		5040.03		5036.50
12/12/16		5041.48		5036.50
01/10/17		5041.36		5036.50
02/17/17		5041.33		5036.50
03/20/17		5040.13		5036.50
04/11/17		5040.23		5036.50
05/16/17		5040.33		5036.50
06/12/17		5040.28		5036.50
07/10/17		5040.28		5036.50
08/04/17		5039.98		5036.50
09/05/17	5036.73	5039.95		5036.50
10/04/17	5036.75	5040.06		5036.50
11/09/17	5041.73	5041.33		5036.50
12/18/17	5041.71	5041.28		5036.50
01/12/18	5041.93	5041.58		5036.50
02/16/18	5041.13	5040.28		5036.50
03/06/18	5037.00	5040.08		5036.50
03/16/18	5036.90	5040.03	5036.51	5036.50
03/20/18	5037.18	5040.13	5036.51	5036.50
04/11/18	5037.09	5040.13	5036.48	5036.50
05/17/18	5037.03	5040.13	5036.47	5036.50
05/22/18			5036.47	5036.50
05/31/18	5036.99	5040.18	5036.44	5036.50
06/26/18	5036.81	5040.18	5036.49	5036.50