

STATE OF
COLORADO

Ebert - DNR, Jared <jared.ebert@state.co.us>

Hazeltine Mine, M-2004-031 Board Order - 2nd Quarter Groundwater Monitoring

1 message

Connie Davis <connie.davis@aggregate-us.com>

Sat, Jun 30, 2018 at 2:27 PM

To: Jared Ebert <Jared.Ebert@state.co.us>

Cc: Joel Bolduc <joel.bolduc@aggregate-us.com>, Steve Fox <S_Fox@fsf-law.com>, Tom Hesemann <tom.hesemann@tetrattech.com>, "Cunningham - DNR, Michael" <michaela.cunningham@state.co.us>, Matthew Woodworth <matthew.woodworth@lafargeholcim.com>

Hello Jared - there has been some confusion as to the actual deadline for submitting quarterly groundwater monitoring data, commencing with data for second quarter of 2018, as required in the above-referenced Board Order. Aggregate's thought was that the data should be submitted within 30 days of the end of the quarter; however, Aggregate's attorney advised that the initial second quarter 2018 data should be submitted by June 30. Therefore, attached is Aggregate's letter with regard to the penalty payment, status of monitoring wells and staff gauges and second quarter 2018 monitoring well/staff gauge report. A copy of the receipt and report as referenced in the letter are also attached. Hard copies of these items will be mailed to the Division.

Thanks - Connie

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Connie N. Davis
Land Manager, Land and Environment
Aggregate Industries US
Aggregate Industries - WCR, Inc.
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Greeley, CO 80633
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A member of the Holcim Group

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3 attachments**2018 0531 \$35,000 penalty receipt.pdf**
151K**2018 0627 Hazeltine Mon Well & Staff Gage Mon Report.pdf**
1256K**2018 0630_ Hazeltine_Board Order Response Cover Letter.pdf**
216K

June 30, 2018

Mr. Jared Ebert
Division of Reclamation Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203

**Re: Permit Number M-2004-031 – Hazeltine Mine
Response to 5/14/2018 Order, Violation MW-2015-003 and MW-2018-008**

Dear Jared:

Aggregate Industries (AI) submits this letter to address corrective actions in the Division's May 14, 2018 Order, violation MV 2015-003 and MW 2018-008.

Penalty payment of \$35,000 was made May 31, 2018. Receipt attached.

Corrective Action A. Locate and rehabilitate monitoring wells.

AggInd Response: Monitoring wells MW-2, MW-11A, MW-11B, and staff gauges SG-2, SG-11 are all functional and accessible as evidenced by monthly data being available for every month in 2018 year-to-date.

Corrective Action B. Groundwater monitoring data to be submitted quarterly and annual data submitted with annual report due September 27.

AggInd Response: Attached are the results for 2nd quarter 2018. Future quarterly reports will be submitted within 30 days of the end of the monitoring permit, e.g 4th quarter report will be submitted by January 30. Annual groundwater data will be submitted along with the annual mining report due September 27 each year.

Corrective Action C. Submit a Technical Revision to modify the permanent monitoring plan to ensure the mitigation measures for the Orr Property will function year round with little maintenance.

AggInd Response: A Technical Revision to ensure mitigation measures function year round has been prepared and will be submitted with the DRMS TR form, letter of explanation and fee payment when Aggregate receives the check request for the fee. These items will be submitted on or before the July 13, 2018 deadline required by the Order.

Mr. Jared Ebert, Division of Reclamation, Mining and Safety
June 30, 2018
Page 2

If you have any questions or require additional information regarding this submittal, please do not hesitate to call Joel Bolduc at 719-239-0974 or me at 970-396-5252.

Very truly yours,



Connie N. Davis
Land Manager

Enclosures

- Receipt for \$35,000 penalty payment
- 2nd quarter 2018 groundwater data, Tetra Tech 6/27/2018

Cc: Michael Cunningham (via e-mail)
Steve Fox (via e-mail)
Tom Hesemann (via e-mail)
Matt Woodworth (via e-mail)



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.

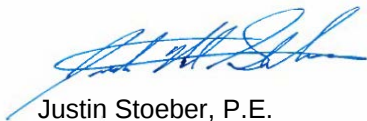
The data indicate that the operation of the Orr drain has lowered the ground water levels observed in HZMW-2 approximately two feet (2') since January 2017; a time of high flow in the Bull Seep. Water levels in wells HZMW-11A and HZMW11B have likewise declined since January 2017, approximately one-foot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



TETRA TECH

www.tetrattech.com

1900 S. Sunset St., Ste. 1-E
Longmont, CO 80501
Phone: (303) 772-5282 Fax: (303) 772-7039

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

6/27/2018 12:10:02 PM - P:\23514\200-23514-18001\CAD\CONCEPTUAL\H2MW-2.DWG - JANSEN, JACOB

HZMW-11A

Groundwater Elevations

Hazeltine Mine, Thornton, Colorado



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Longmont, CO 80501

Phone: (303) 772-5282 Fax: (303) 772-7039

AGGREGATE INDUSTRIES

GROUNDWATER LEVELS IN WELLS
NEAR ORR PROPERTY

HZMW-11A

Project No.: 200-23514-18001

Date: JUNE 2018

Designed By: JWJ

Supplemental

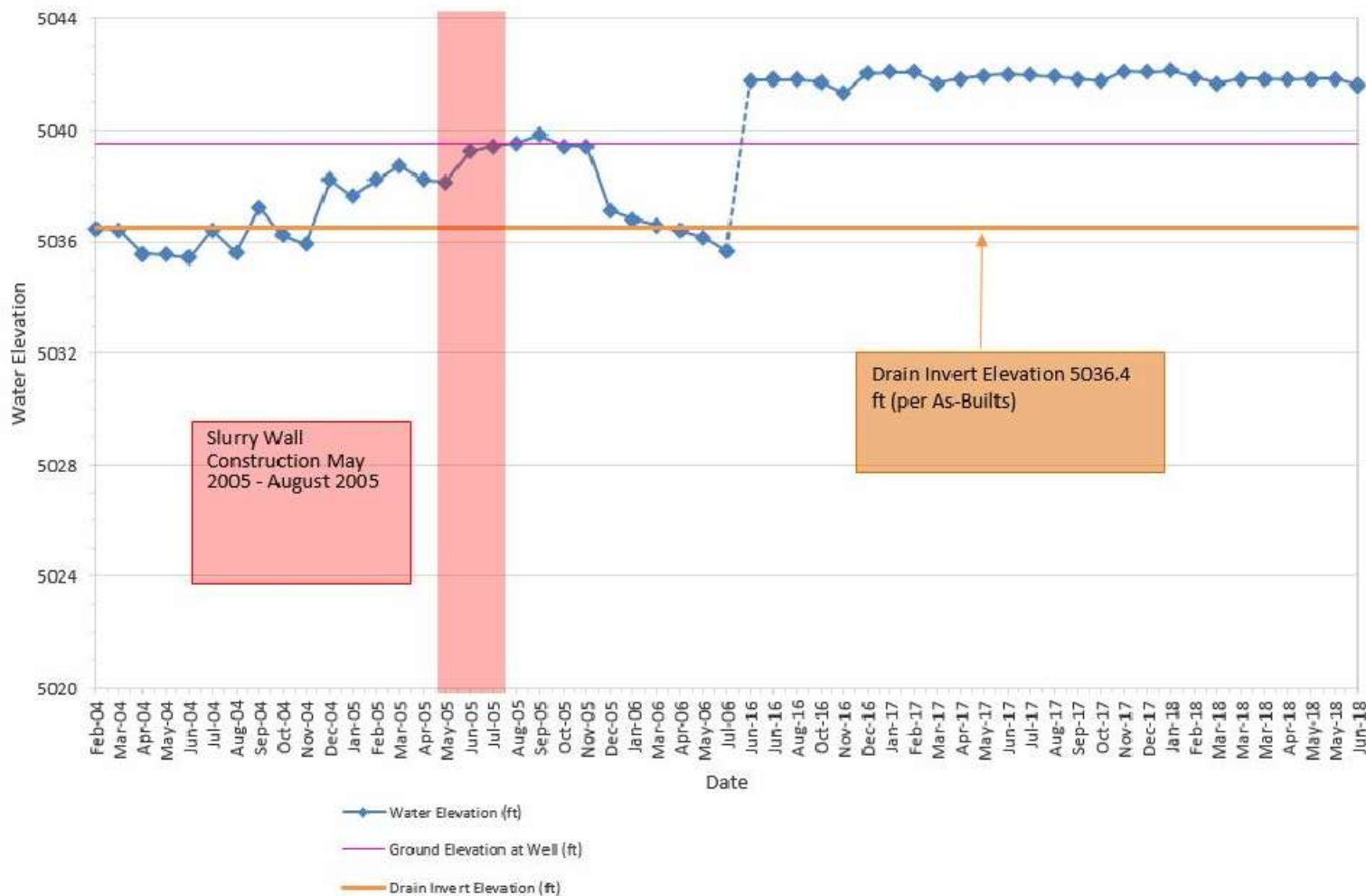
2

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

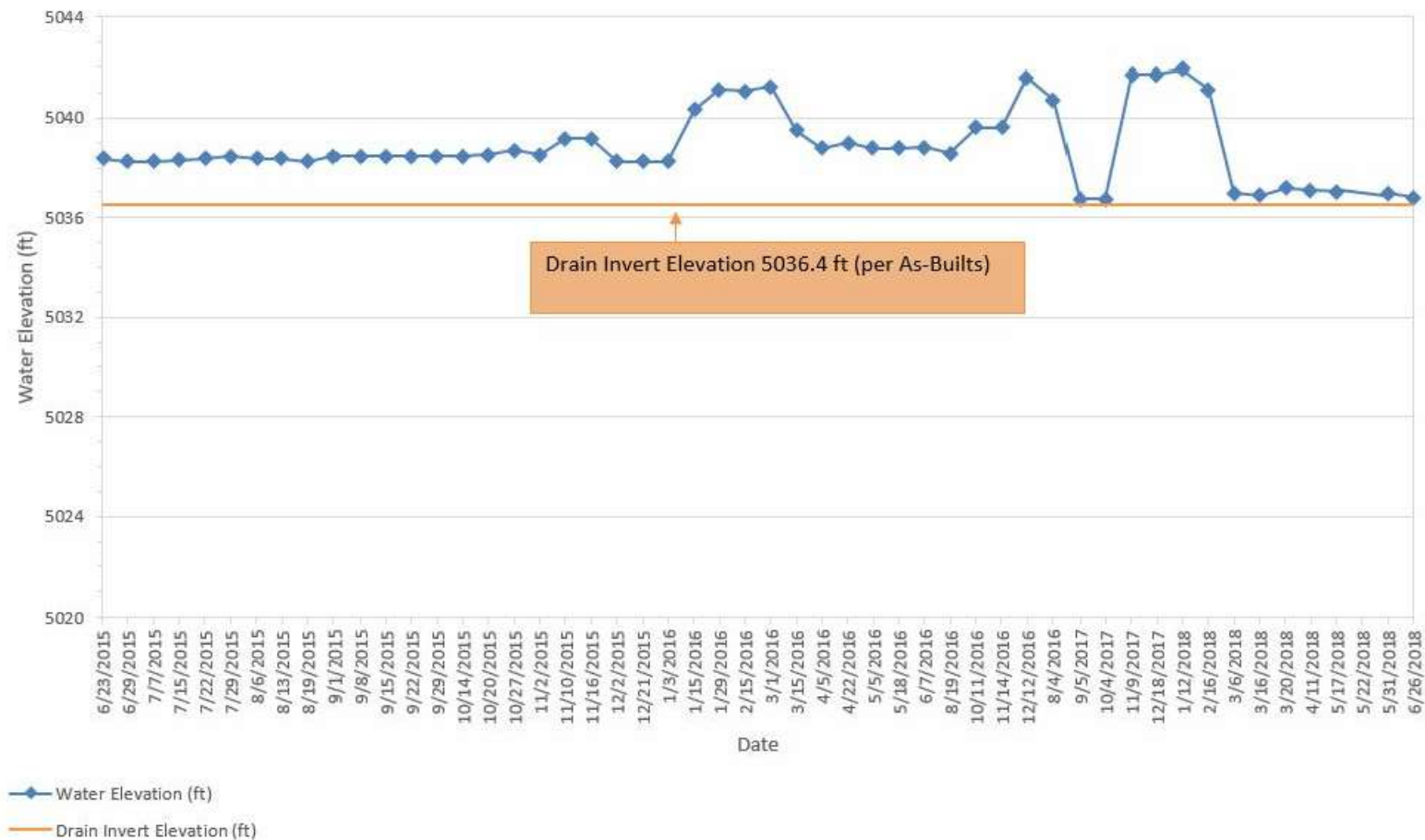
3

Bar Measures 1 inch

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



TETRA TECH

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

Project No.: 200-23514-18001

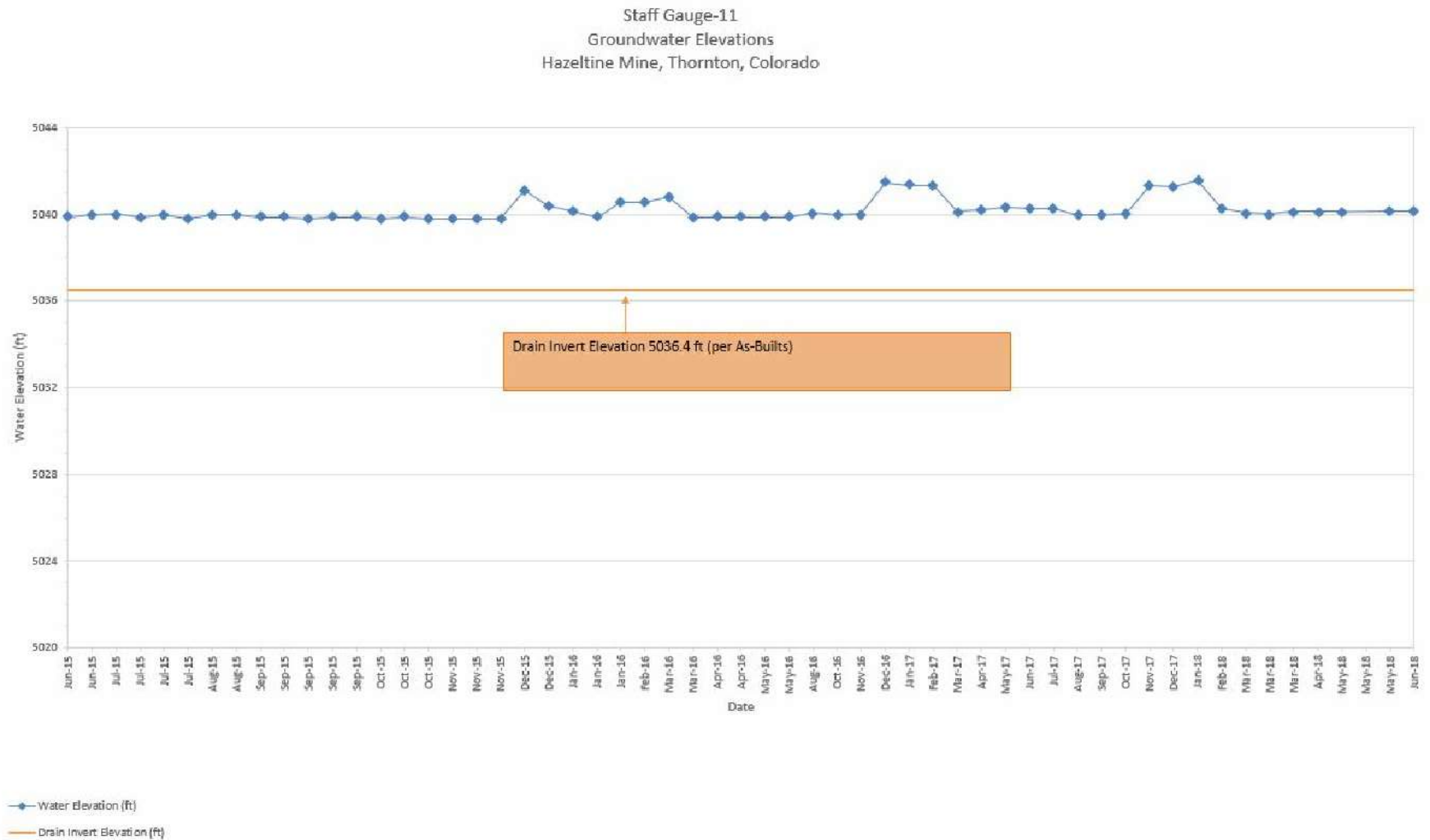
Date: JUNE 2018

Designed By: JWJ

Supplemental

4

Bar Measures 1 inch



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Phone: (303) 772-5282 Fax: (303) 772-7039

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

Division of Reclamation, Mining, and Safety

Fee Receipt for M2004031

Aggregate Industries - WCR, Inc.
Connie Davis
1687 Cole Blvd., Ste. 300

Golden

CO 804010000

Receipt #: 26805

Date: 05/31/2018

Permit: M2004031

Payment Method	Revenue Code	Fee Description/Notes	Amount
Check #4000139509	5700	Minerals Civil Penalty/Violation Fines User: MSR Infraction Number: MV2015003 MV2018008	\$35,000.00
Receipt Total:			\$35,000.00