



Water Resource Advisors for the West

February 27, 2019

Eric Scott
1313 Sherman Street
Room 215
Denver, CO 80203

RE: Tollgate Pit – Post Site Inspection Follow Up Information (M-2018-060)

Dear Mr. Scott:

On February 19, 2019 all parties involved met for the pre-operation site inspection. The following items were discussed as needing to be updated and submitted to the Division of Reclamation Mining and Safety and are either discussed herein or attached.

- Historical groundwater levels on the site are provided as an excel spreadsheet. The data was obtained from Aggregate Industries as part of the monitoring at the nearby WW Farms Pit (M-99-098). This data provides the necessary baseline groundwater levels prior to the installation of the slurry wall and beginning of mining.
- An updated color coordinated structure map, Exhibit S-2, to better show all utilities throughout the site.
- The mining plans and reclamation plan maps have been updated to show that stock pile areas will not be placed on top of underground utility lines.
- The preliminary adequacy review response (dated February 15, 2019) mistakenly states that a cover crop will be used; please note that use of a cover crop is optional per NRCS guidance.
- For documentation, copies of the structure agreement sent to nearby structure owners and the notices sent to adjacent property owners are attached.

If you have any additional questions about the provided information feel free to contact me at (303) 452-6611 or katybilisoly@applegategroup.com.

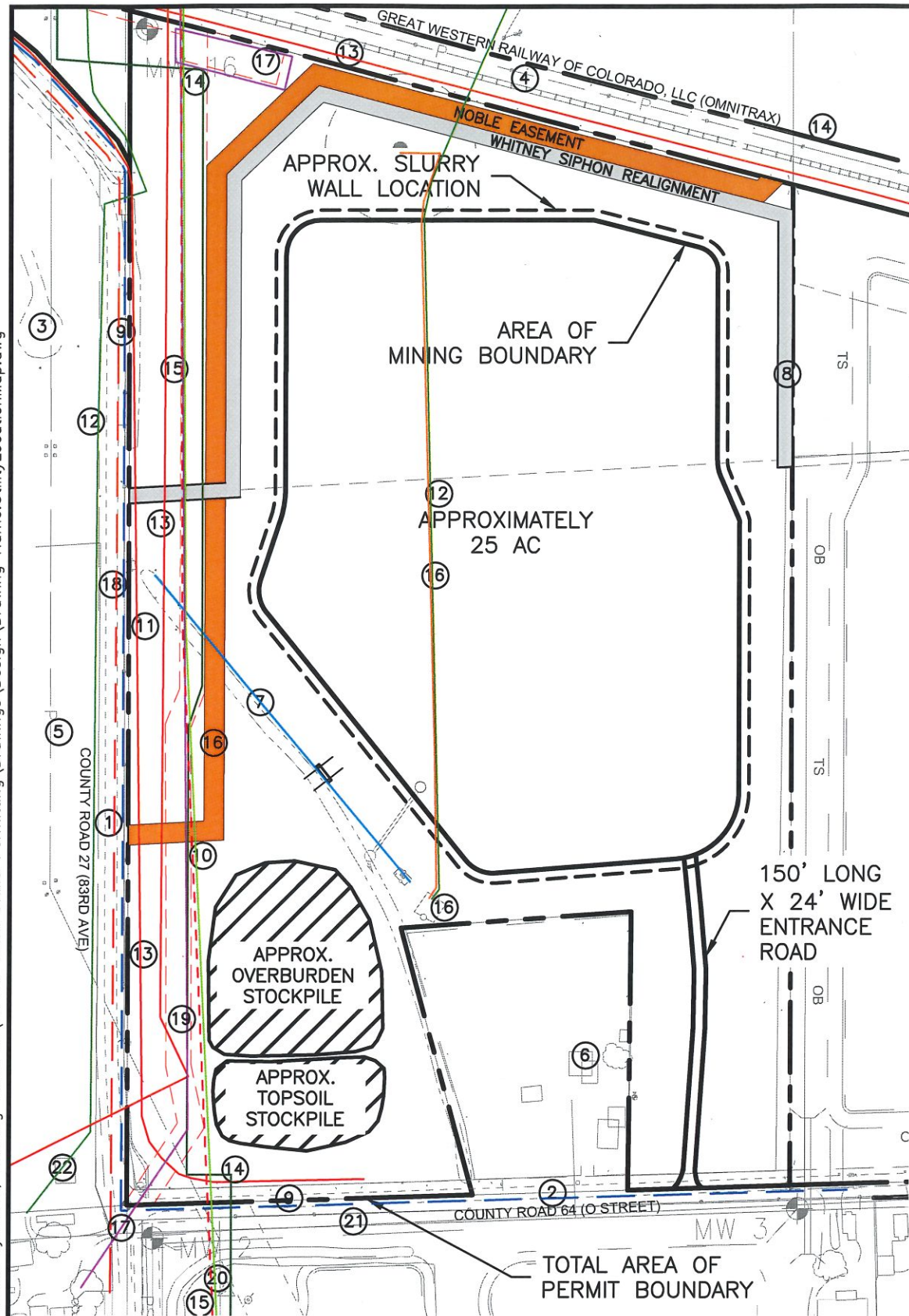
Sincerely,
Applegate Group, Inc.

Katy Bilisoly, E.I.
Water Resources Engineer

KAB/jd

cc: Daniel Clark, Bucklen Services Company
AG#: 18-110

Plot Date: 02/27/19-3:35pm, Plotted by:Thorn, Drawing Path: N:\18110 Clark DRMS Permitting\Drawings\Design\UtilityLocationMap.dwg



NOTE:
1. SEE EXHIBIT I FOR SOILS INFORMATION
2. EXISTING VEGETATION CONSISTS OF PASTURE GRASSES, SEE EXHIBIT J FOR MORE INFORMATION.
3. OIL/GAS LINES LOCATED WITHIN MINING BOUNDARY ARE ABANDONED AND WILL BE REMOVED AS MINING BEGINS. THIS HAS BEEN CONFIRMED WITH UTILITY OWNERS.

Map ID	Structure	Owner	Approx. min setback from proposed mining limit (ft)	Utilities Legend
1	Weld County Road 27	Weld County Public Works	509'	--
2	Weld County Road 64	Weld County Public Works	644'	--
3	Shiloh Road	Bracewell PUD Homeowners Association	487'	--
4	Rail Right of Way	Great Western Railway (Omnitrax)	285'	--
5	Overhead Electric	Western Area Power Authority	478'	P
6	Farm House and Buildings	Alison Albert IV	376'	--
7	Storms Lake Drainage Canal	Greeley Irrigation Company	122'	---
8	Whitney Siphon	Whitney Irrigation Company	140'	---
9	Underground Utility	CenturyLink Telephone Company	349'	---
10	Underground High Pressure Transmission Pipeline	Xcel Energy	355'	---
11	Overhead Electric	Xcel Energy	236'	--
12	Underground Pipelines	DCP Midstream	423'	---
13	Underground Pipelines	Atmos Energy Corporation	175'	---
14	Underground Utility	ARB Midstream (Platte River Midstream)	345'	---
15	Underground Pipeline	Suncor Energy	235'	---
16	Underground Pipelines	Noble Energy	99'	---
17	Underground High Pressure Pipeline and Building	Tallgrass Energy	303'	---
18	Underground Fiber Optic	Zayo Group	293'	---
19	Pipeline Easement	Kinder Morgan	454'	---
20	Buildings	Aggregate Industries	964'	--
21	Overhead Electric	Xcel Energy/Public Service Company of Colorado	742'	--
22	Buildings	Miriam Ruth Firestien Revocable Trust	975'	--

LEGEND

---	EXISTING CONTOURS	---	MINE BOUNDARY
---	EXISTING OILGAS FLOWLINES	---	EXISTING EASEMENTS
---	OVERHEAD ELECTRIC	---	SECTION CORNER
---	SECTION LINE	---	PROPERTY/PERMIT BOUNDARY
---	TOPSOIL/OVERBURDEN STOCKPILES		

NO	DATE	BY	CHKD	REVISIONS	DESCRIPTION
1	02/07/2019	TRH	KB		AS SHOWN

A detailed site plan map of a mining area. The map shows a central area labeled "AREA OF MINING BOUNDARY" which is "APPROXIMATELY 25 AC". This area is enclosed by a "TOTAL AREA OF PERMIT BOUNDARY" shown as a thick black line. To the north of the mining area is a "GREAT WESTERN RAILWAY OF COLORADO, LLC (OMNITRAX)" and a "NOBLE EASEMENT WHITNEY SIPHON REALIGNMENT". A "DASHED LINE" indicates the "APPROX. SLURRY WALL LOCATION". To the west of the mining area is "COUNTY ROAD 27 (33RD AVE)". To the south is "COUNTY ROAD 64 (O STREET)". In the bottom right corner, a "150' LONG X 24' WIDE ENTRANCE ROAD" is shown. Two hatched areas in the bottom left are labeled "APPROX. OVERBURDEN STOCKPILE" and "APPROX. TOPSOIL STOCKPILE". A "SILT DRAINAGE PONDS 30' x 30' WITH WATER METER" and an "8' x 40' CULVERT CROSSING" are also indicated. The map includes numerous contour lines with elevations (e.g., 4720, 4725, 4730, 4735) and various numbered points (e.g., 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22). A north arrow is located in the upper right quadrant.

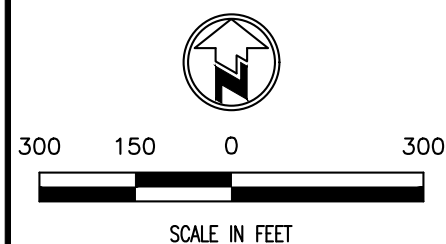


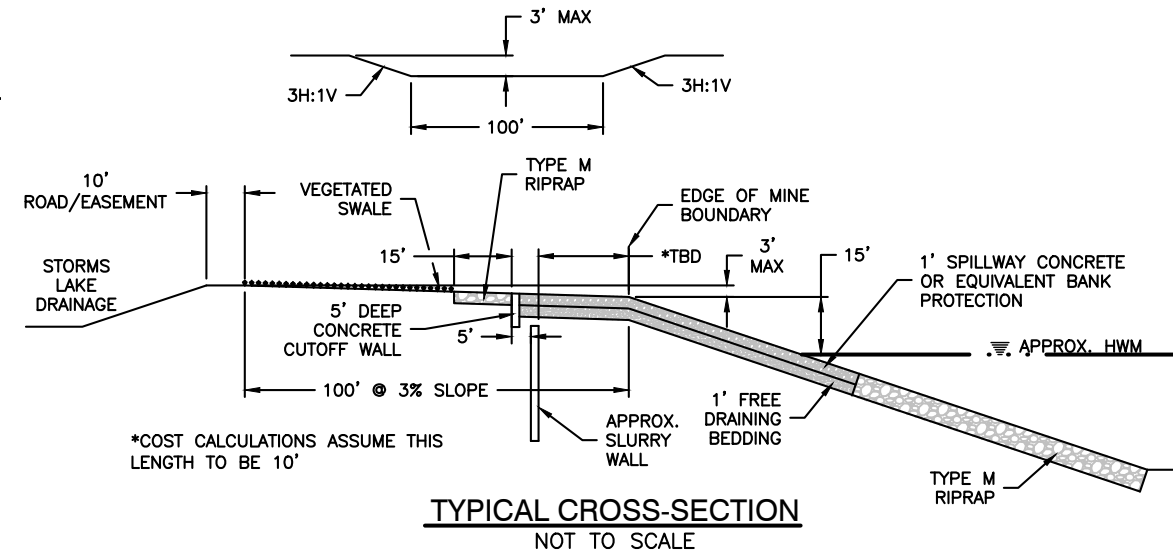
Map ID	Structure	Owner	Approx. min setback from proposed mining limit (ft)
1	Weld County Road 27	Weld County Public Works	509'
2	Weld County Road 64	Weld County Public Works	644'
3	Shiloh Road	Bracewell PUD Homeowners Association	487'
4	Rail Right of Way	Great Western Railway (Omnitrax)	285'
5	Overhead Electric	Western Area Power Authority	478'
6	Farm House and Buildings	Alison Albert IV	376'
7	Storms Lake Drainage Canal	Greeley Irrigation Company	122'
8	Whitney Siphon	Whitney Irrigation Company	140'
9	Underground Utility	CenturyLink Telephone Company	349'
10	Underground High Pressure Transmission Pipeline	Xcel Energy	355'
11	Overhead Electric	Xcel Energy	236'
12	Underground Pipelines	DCP Midstream	423'
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16	Underground Pipelines	Noble Energy	99'
17	Underground High Pressure Pipeline and Building	Tallgrass Energy	303'
18	Underground Fiber Optic	Zayo Group	293'
19	Pipeline Easement	Kinder Morgan	454'
20	Buildings	Aggregate Industries	964'
21	Overhead Electric	Xcel Energy/Public Service Company of Colorado	742'
22	Buildings	Miriam Ruth Firestien Revocable Trust	975'

	EXISTING CONTOURS		MINE BOUNDARY
	EXISTING OILGAS FLOWLINES		EXISTING EASEMENTS
	OVERHEAD ELECTRIC		SECTION CORNER
	SECTION LINE		PROPERTY/PERMIT BOUNDARY
	TOPSOIL/OVERBURDEN STOCKPILES		

NOTE:

1. SEE EXHIBIT I FOR SOILS INFORMATION
2. EXISTING VEGETATION CONSISTS OF PASTURE GRASSES, SEE EXHIBIT J FOR MORE INFORMATION.
3. OIL/GAS LINES LOCATED WITHIN MINING BOUNDARY ARE ABANDONED AND WILL BE REMOVED AS MINING BEGINS. THIS HAS BEEN CONFIRMED WITH UTILITY OWNERS.





LEGEND

— — — — — 4720 — — — — —	EXISTING CONTOURS
— — — — —	EXISTING OIL/GAS FLOWLINES
— — — — — P — — — — —	OVERHEAD ELECTRIC
— — — — —	SECTION LINE
—————	RECLAIMED MINE BOUNDARY
- - - - -	EXISTING EASEMENTS
◆	SECTION CORNER
— — — — —	PROPERTY/PERMIT BOUNDARY
— . . . —	APPROXIMATE HIGH WATER MARK
=====	PROPOSED CONTOURS

Structure Agreement

This letter has been provided to you as the owner of a structure on or within two hundred (200) feet of a proposed mine site. The state of Colorado, Division of Reclamation, Mining and Safety (“Division”) requires that where a mining operation may adversely affect the stability of any significant, valuable and permanent man-made structure located within two hundred (200) feet of the affected land, the Applicant shall either:

- a) Provide a notarized agreement between the Applicant and the Person(s) having an interest in the structure, that the Applicant is to provide compensation for any damage to the structure; or
- b) Where such an agreement cannot be reached, the Applicant shall provide an appropriate engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation; or
- c) Where such structure is a utility, the Applicant may supply a notarized letter, on utility letterhead from the owner(s) of the utility that the mining and reclamation activities, as proposed, will have “no negative effect” on their utility. (*Construction Materials Rule 6.3.12 and Rule 6.4.19 & Hard Rock/Metal Mining Rule 6.3.12 and Rule 6.4.20*)

The Colorado Mined Land Reclamation Board (“Board”) has deterred that this form, if properly executed, represents an agreement that complies with Construction Materials Rule 6.3.12(a), Rule 6.4.19(a), and C.R.S § 34-32.5-115(4)(e) and with Hard Rock/Metal Mining Rule 6.3.12(a), Rule 6.4.20(a), and C.R.S. § 34-32-115(4)(d). This form is for the sole purpose of ensuring compliance with the Rules and Regulations and shall not make the Board or Division a necessary party to any private civil lawsuit to enforce the terms of the agreement or create any enforcement obligations in the Board or the Division.

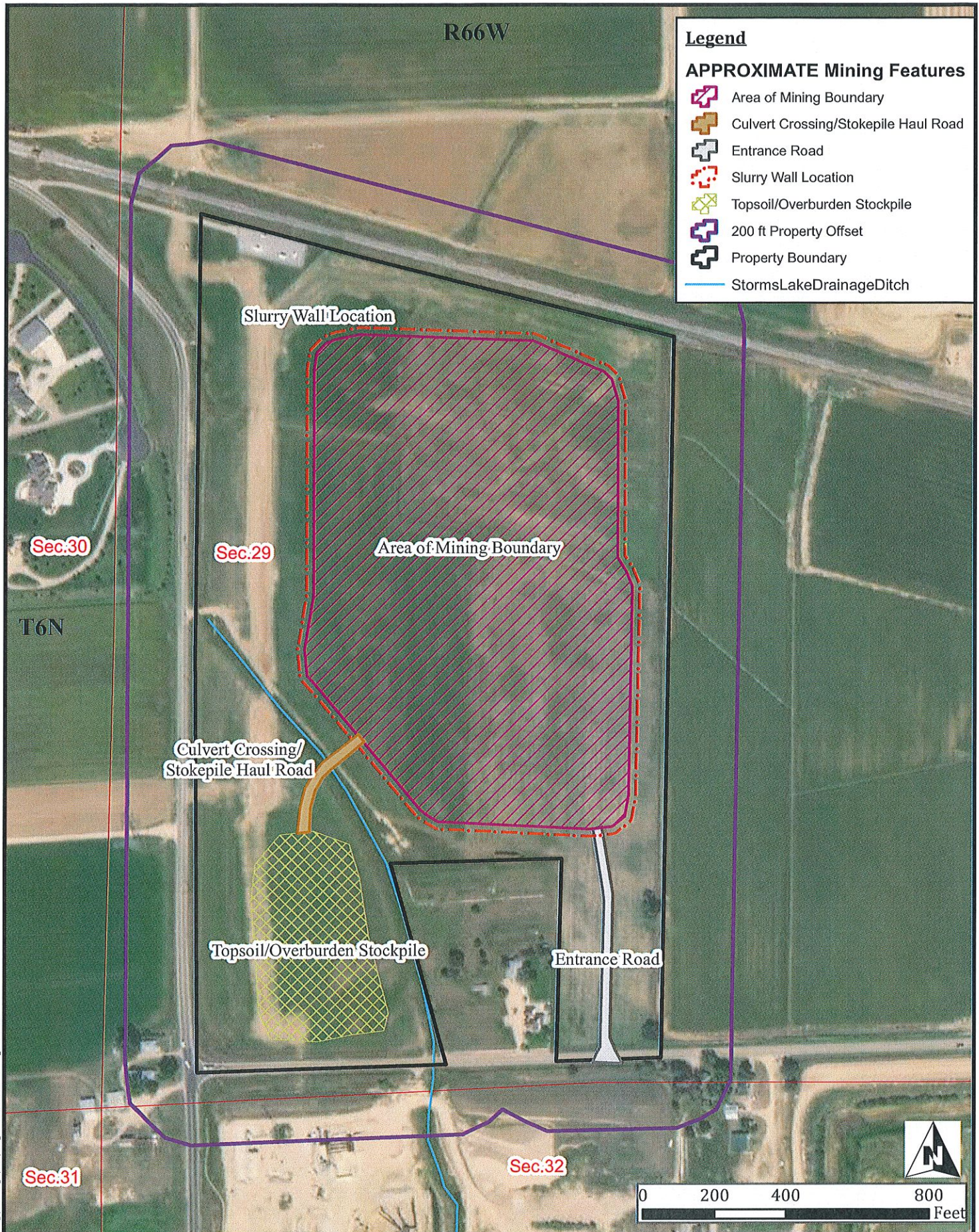
The following structures are located on or within 200 feet of the proposed affected area:

No.	Structure	Owner
1	Weld County Road 27	Weld County Public Works
2	Weld County Road 64	Weld County Public Works
3	Shiloh Road	Bracewell PUD Homeowners Association
4	Rail Right of Way	Great Western Railway (Omnitrax)
5	Overhead Electric	Western Area Power Authority
6	Farm House and Buildings	Alison Albert IV
7	Storms Lake Drainage Canal	Greeley Irrigation Company
8	Whitney Siphon	Whitney Irrigation Company
9	Underground Utility	CenturyLink Telephone Company
10	Underground High-Pressure Transmission Pipeline (PCNG03)	Xcel Energy
11	Underground Utility (PCFTG02)	Xcel Energy

12	Underground Pipelines	DCP Midstream
13	Underground Pipelines	Atmos Energy Corporation
14	Underground Utility	ARB Midstream (Platte River Midstream)
15	Underground Pipeline	Suncor Energy
16	Underground Pipelines	Noble Energy
17	Underground High-Pressure Pipeline and Building	Tallgrass Energy
18	Underground Fiber Optic	Zayo Group
19	Pipeline Easement	Kinder Morgan
20	Buildings	Aggregate Industries
21	Overhead Electric	Xcel Energy
22	Buildings	Miriam Ruth Firestien Revocable Trust

Please see the attached map for information regarding the mining site. For more information please refer to the full DRMS 112 permit application located at the Weld Country Clerk and Recorder or contact Jared Dains or Katy Bilisoly with Applegate Group, Inc. at (303) 452-6611.

As an owner of one of the above-listed structures, we are writing to inquire whether you would be willing to execute the attached standard Certification provided by the Division of Mining Reclamation and Safety. If you are, please fill out page two and return to Applegate Group at 1490 W 121st St., Suite 100, Denver, CO 80234. We will then fully execute the agreement and return a copy to you.



Date Saved: 1/9/2019 9:53:41 AM
 Path: N:\18110 Clark DRMS Permitting Drawings\GIS\Tollgate Pit General Mining Plan.mxd



Applegate Group, Inc.
 Water Resource Advisors for the West
 1490 West 121st Ave., Ste 100 Phone: (303) 452-6611
 Denver, CO 80234-2728 Fax: (303) 452-2759
 www.ApplegateGroup.com e-mail: info@applegategroup.com

Tollgate Pit
DRMS Permit Application

General Mining Plan

Date: 9 JAN 2019
 Job #: 18-110
 Drawn By: KAB

Figure:
1
 Of: 1

CERTIFICATION

The Applicant, _____ (print applicant/company name),
by _____ (print representative's name), as _____ (print
representative's title), does hereby certify that _____ (structure owner) shall
be compensated for any damage from the proposed mining operation to the above listed structure(s)
located on or within 200 feet of the proposed affected area described within Exhibit A, of the Reclamation
Permit Application for _____ (operation name),
File Number M-_____-_____.

This form has been approved by the Colorado Mined Land Reclamation Board pursuant to its authority under the Colorado Land Reclamation Act for the Extraction of Construction Materials and the Colorado Mined Land Reclamation Act for Hard Rock, Metal, and Designated Mining Operations. Any alteration or modification to this form shall result in voiding this form.

NOTARY FOR PERMIT APPLICANT

ACKNOWLEDGED BY:

Applicant _____ Representative Name _____

Date _____ Title _____

STATE OF _____)
) ss.
COUNTY OF _____)

The foregoing was acknowledged before me this _____ day of _____, 20____, by _____ as _____ of _____.

My Commission Expires: _____

Notary Public

NOTARY FOR STRUCTURE OWNER

ACKNOWLEDGED BY:

Structure Owner _____ Name _____

Date _____ Title _____

STATE OF _____)
) ss.
COUNTY OF _____)

The foregoing was acknowledged before me this ____ day of _____, 20____, by
_____ as _____ of _____.

Notary Public My Commission Expires: _____

PUBLIC NOTICE

Bucklen Services Company (804 North 25th Avenue, Greeley, Colorado 970-353-0720) has filed an application for a new Regular (112) Construction Materials Operation Reclamation Permit with the Colorado Mined Land Reclamation Board under provisions of the Colorado Land Reclamation Act for the Extraction of Construction Materials. The mine is known as the Tollgate Pit (DRMS Permit No. M-2018-060) and is located at or near the SW ¼ of Section 29, Township 6N, Range 66W, 6th Prime Meridian.

Additional information and tentative decision date may be obtained from the Division of Reclamation, Mining, and Safety, 1313 Sherman Street, Room 215, Denver, Colorado 80203, (303) 866-3567, or at the Weld County Clerk and Recorder's office; (1402 North 17th Avenue, Greeley CO), or the above-named applicant.

Comments must be in writing and must be received by the Division of Reclamation, Mining, and Safety by 4:00 p.m. on January 2, 2019.

Please note that under the provisions of C.R.S. 34-32.5-101 et seq. Comments related to noise, truck traffic, hours of operation, visual impacts, effects on property values and other social or economic concerns are issues not subject to this Office's jurisdiction. These subjects, and similar ones, are typically addressed by your local governments, rather than the Division of Reclamation, Mining, and Safety or the Mined Land Reclamation Board.

Monitoring Wells on Tollgate Pile (DPM Permit No. M-2018-060)												Nearby Monitoring Wells on VW Farms Pile (DPM Permit No. M-09-098)												Notes	
NAME	MW-15	MW-16	MW-20	MW-2	MW-3	MW-17																			
LATITUDE	40.45417	40.45408	40.45412	40.45412	40.45426	40.45416													40.46716						
LONGITUDE	-104.81147	-104.81142	-104.80979	-104.81131	-104.80959	-104.80679													-104.80679						
DESCRIPTION	Near west entrance	Northwest corner	Near southeast corner	Near southeast corner	Near southeast corner	Near northeast corner																			
BOTTOM DEPTH (ft)	39	37.5	37	36	34	34.5													39.4						
Well Permit No.	276987	276988	276989	276990	276991	247218													276990						
Ground Elevation (ft)	4725.12	4729.94	4729.94	4726.12	4723.20	4723.381													4729.95						
Casing Stickup (ft)	2.95	2.96	2.76	2.262	2.093	3.08																			
Top of Casing (ft)	4727.97	4729.9	4728.87	4728.87	4725.464	4726.564													4727.97						
DATE	READING (ft)	WATER ELEV (ft)	READING (ft)	WATER ELEV (ft)	READING (ft)	WATER ELEV (ft)	READING (ft)	WATER ELEV (ft)	READING (ft)	WATER ELEV (ft)	READING (ft)	WATER ELEV (ft)	READING (ft)	WATER ELEV (ft)	READING (ft)	WATER ELEV (ft)									
12/21/2001		#N/A		#N/A		#N/A	9.9	4713.6	12.9	4712.6		#N/A		#N/A		#N/A									
1/6/2002		#N/A		#N/A		#N/A	10	4713.5	13.1	4712.4		#N/A		#N/A		#N/A									
2/13/2002		#N/A		#N/A		#N/A	10.3	4713.2	13.4	4712.3		#N/A		#N/A		#N/A									
3/15/2002		#N/A		#N/A		#N/A	10.5	4713.0	13.7	4711.8		#N/A		#N/A		#N/A									
4/23/2002		#N/A		#N/A		#N/A	10.7	4712.8	14	4711.5		#N/A		#N/A		#N/A									
5/1/2002		#N/A		#N/A		#N/A	10.8	4712.7	14.2	4711.3		#N/A		#N/A		#N/A									
6/6/2002		#N/A		#N/A		#N/A	10.1	4713.4	13.8	4711.7		#N/A		#N/A		#N/A									
7/2/2002		#N/A		#N/A		#N/A	10.3	4713.2	14	4711.5		#N/A		#N/A		#N/A									
8/6/2002		#N/A		#N/A		#N/A	9.4	4714.1	13.6	4711.9		#N/A		#N/A		#N/A									
9/2/2002		#N/A		#N/A		#N/A	9.6	4713.9	13.7	4711.8		#N/A		#N/A		#N/A									
10/1/2002		#N/A		#N/A		#N/A	11.5	4713.0	14.7	4710.8		#N/A		#N/A		#N/A									
11/1/2002		#N/A		#N/A		#N/A	10.6	4712.9	14.2	4711.3		#N/A		#N/A		#N/A									
12/3/2002		#N/A		#N/A		#N/A	11	4713.5	14.4	4711.3		#N/A		#N/A		#N/A									
1/2/2003		#N/A		#N/A		#N/A	11.3	4713.2	14.7	4710.8		#N/A		#N/A		#N/A									
2/3/2003		#N/A		#N/A		#N/A	11.6	4713.9	14.9	4710.6		#N/A		#N/A		#N/A									
3/4/2003		#N/A		#N/A		#N/A	12	4713.5	15.4	4710.1		#N/A		#N/A		#N/A									
4/3/2003		#N/A		#N/A		#N/A	12.4	4713.1	15.9	4709.6		#N/A		#N/A		#N/A									
5/1/2003		#N/A		#N/A		#N/A	12.7	4710.8	16.2	4709.3		#N/A		#N/A		#N/A									
6/2/2003		#N/A		#N/A		#N/A	12.6	4711.9	16.5	4709.6		#N/A		#N/A		#N/A									
7/1/2003		#N/A		#N/A		#N/A	12.2	4711.3	16.3	4710.2		#N/A		#N/A		#N/A									
8/4/2003		#N/A		#N/A		#N/A	11	4712.5	15.1	4710.4		#N/A		#N/A		#N/A									
9/2/2003		#N/A		#N/A		#N/A	9.9	4713.6	14.8	4710.7		#N/A		#N/A		#N/A									
10/1/2003		#N/A		#N/A		#N/A	11.5	4713.0	14.7	4710.8		#N/A		#N/A		#N/A									
11/1/2003		#N/A		#N/A		#N/A	12.1	4711.4	15.1	4710.4		#N/A		#N/A		#N/A									
12/1/2003		#N/A		#N/A		#N/A	11.6	4710.9	15.7	4709.8		#N/A		#N/A		#N/A									
1/5/2004		#N/A		#N/A		#N/A	11.1	4710.4	16.5	4709.0		#N/A		#N/A		#N/A									
2/3/2004		#N/A		#N/A		#N/A	11.5	4710.0	16.9	4708.6		#N/A		#N/A		#N/A									
3/2/2004		#N/A		#N/A		#N/A	11.8	4709.7	17.6	4707.9		#N/A		#N/A		#N/A									
4/1/2004		#N/A		#N/A		#N/A	14	4709.5	18.2	4707.1		#N/A		#N/A		#N/A									
5/3/2004		#N/A		#N/A		#N/A	13.3	4710.2	18.4	4707.1		#N/A		#N/A		#N/A									
6/1/2004		#N/A		#N/A		#N/A	13.3	4710.2	18	4707.5		#N/A		#N/A		#N/A									
7/6/2004		#N/A		#N/A		#N/A	12.2	4711.3	15.5	4710.0		#N/A		#N/A		#N/A									
8/2/2004		#N/A		#N/A		#N/A	12.9	4710.6	15.6	4709.9		#N/A		#N/A		#N/A									
9/3/2004		#N/A		#N/A		#N/A	9.3	4714.2	15.6	4709.9		#N/A		#N/A		#N/A									
10/1/2004		#N/A		#N/A		#N/A	11.3	4712.3	15.9	4709.6		#N/A		#N/A		#N/A									
11/1/2004		#N/A		#N/A		#N/A	11.9	4711.6	16.1	4709.4		#N/A		#N/A		#N/A									
12/1/2004		#N/A		#N/A		#N/A	12.2	4711.3	16.6	4708.9		#N/A		#N/A		#N/A									
1/3/2005		#N/A		#N/A		#N/A	12.4	4711.1	16.8	4708.7		#N/A		#N/A		#N/A									
2/1/2005		#N/A		#N/A		#N/A	12.8	4710.7	17.1	4708.4		#N/A		#N/A		#N/A									
3/1/2005		#N/A		#N/A		#N/A	13.2	4710.3	17.5	4708.0		#N/A		#N/A		#N/A									
4/1/2005		#N/A		#N/A		#N/A	13.4	4710.1	17.8	4707.7		#N/A		#N/A		#N/A									
5/2/2005		#N/A		#N/A		#N/A	13.8	4709.7	17.9	4707.6		#N/A		#N/A		#N/A									
6/2/2005		#N/A		#N/A		#N/A	13.9	4709.6	18.2	4707.3		#N/A		#N/A		#N/A									
7/1/2005		#N/A		#N/A		#N/A	11	4712.5	18	4707.5		#N/A		#N/A		#N/A									
8/2/2005		#N/A		#N/A		#N/A	10.8	4712.7	16.5	4709.0		#N/A		#N/A		#N/A									
9/1/2005		#N/A		#N/A		#N/A	10.7	4712.8	16.2	4709.3		#N/A		#N/A		#N/A									
10/6/2005		#N/A		#N/A		#N/A	12	4711.5	16	4709.5		#N/A		#N/A		#N/A									
11/1/2005		#N/A		#N/A		#N/A	12.7	4710.8	16.6	4708.9		#N/A		#N/A		#N/A									
12/1/2005		#N/A		#N/A		#N/A	11	4712.5	16.8	4708.7		#N/A		#N/A		#N/A									
1/3/2006		#N/A		#N/A		#N/A	13.6	4709.9	18.4	4707.1		#N/A		#N/A		#N/A									
2/1/2006		#N/A		#N/A		#N/A	14	4709.5	19.6	4705.9		#N/A		#N/A		#N/A									
3/1/2006		#N/A		#N/A		#N/A	10.3	4710.2	20.1	4705.2		#N/A		#N/A		#N/A									
4/4/2006		#N/A		#N/A		#N/A	14.6	4708.9	20.8	4704.7		#N/A		#N/A		#N/A									
5/2/2006		#N/A		#N/A		#N/A	14.9	4708.6	20.8	4704.7		#N/A		#N/A		#N/A									
6/1/2006		#N/A		#N/A		#N/A	14.1	4709.2	20	4705.5		#N/A		#N/A		#N/A									
7/6/2006		#N/A		#N/A		#N/A	10.4	4711.1	18.9	4706.6		#N/A		#N/A		#N/A									
8/2/2006		#N/A		#N/A		#N/A	9.9	4713.6	18	4707.5		#N/A		#N/A		#N/A									
9/5/2006		#N/A		#N/A		#N/A	11	4712.5	18.6	4706.9		#N/A		#N/A		#N/A									
10/2/2006		#N/A		#N/A		#N/A	11.9	4711.6	19	4706.5		#N/A		#N/A		#N/A									
11/1/2006		#N/A		#N/A		#N/A	12.5	4711.0	21.5	4704.0		#N/A		#N/A		#N/A									
12/4/2006		#N/A		#N/A		#N/A	12.7	4710.8	20.5	4705.0		#N/A		#N/A		#N/A									
3/2/2007		#N/A		#N/A		#N/A	12.7	4710.8	22.9	4703.6		#N/A		#N/A		#N/A									
4/2/2007		#N/A		#N/A		#N/A	13	4710.5	23.7	4703.7		#N/A		#N/A		#N/A									
5/3/2007		#N/A		#N/A		#N/A	13.1	4710.4	22.7	4702.8		#N/A		#N/A		#N/A									
6/4/2007		#N/A		#N/A		#N/A	10.5	4713.0	21.1	4704.4		#N/A		#N/A		#N/A									
7/6/2007		#N/A		#N/A		#N/A	11	4712.5	19.7	4705.8		#N/A		#N/A		#N/A									
8/5/2007		#N/A		#N/A		#N/A	11.1	4712.4	19.6	4705.9		#N/A		#N/A		#N/A									
9/5/2007		#N/A		#N/A		#N/A	10.5	4713.0	19.7	4706.1		#N/A		#N/A		#N/A									
10/5/2007		#N/A		#N/A		#N/A	10.3	4713.3	19.3	4706.3		#N/A		#N/A		#N/A									
11/8/2007		#N/A		#N/A		#N/A	10.7	4712.8	19.5	4706.0		#N/A		#N/A		#N/A									
12/1/2007		#N/A		#N/A		#N/A	10.9	4712.6	19.8	4705.7		#N/A		#N/A		#N/A									
1/2/2008		#N/A		#N/A		#N/A	10.8	4712.7	19.8	4705.7		#N/A		#N/A		#N/A									
2/2/2008	9.8	4718.2	12.8	4718.7	19.2	4709.7	10.7	4712.7	19.8	4705.7	15.8	4716.2													
3/4/2008	10	4718.0	13	4719.9	19.4	4709.5	11	4712.5	20.2	4705.3	17.2	4715.8													
4/14/2008	10.2	4717.8	13.4	4719.5	19.5	4709.4	11	4712.5	20.4	4705.1	17.2	4715.8													
5/26/2008	10.5	4717.5	13.2	4719.7	19.7	4709.9	10.9	4712.0	20.7	4704.9	17.5	4715.2													
6/2/2008	10.2	4717.8	8.2	4724.7	19.8	4709.1	11	4712.5	19.8	4705.7	17	4716.0													
7/1/2008	10.7	4717.3	8	4724.9	19.9	4709.0	11.4	4712.1	20	4705.5	17.3	4715.7													
8/13/2008	8.8	4719.7	9.9	4722.0	19.3	4710.7	8.8	4714.6	17.7	4707.9	14.1	4718.9													
9/8/2008	8.6	4719.7	10.7	4722.2	17.7	4710.2	10.2	4713.3	18.7	4706.8	15	4718.0													
10/9/2008	8.3	4719.4	11.1	4721.8	18	4710.9	10.2	4713.3	18.5	4707.0	15.3	4717.7													
11/1/2008	9.2	4718.8	11.5	4721.4	18.4	4710.7	10.8	4712.8	18.9	4706.6	15.5	4717.5													
12/1/2008	8.8	4719.2	11.4	4721.0	18.1	4710.4	8.1	4715.4	19.1	4706.0	15.7	4717.3													
1/3/2009	10	4718.0	10.7																						

1/25/2015	9.1	4718.9	11.4	4721.5	17.2	4711.7	10.3	4713.2	16.6	4708.9	15.2	4717.8	
2/19/2015	9.3	4718.7	11.6	4721.3	17.7	4711.2	10.6	4712.9	17	4708.5	15.6	4717.4	
3/29/2015	9.6	4718.4	11.8	4721.1	17.9	4711.0	10.7	4712.8	17.2	4708.3	15.8	4717.2	
5/2/2015	8.8	4719.2	11.3	4721.6	16.6	4712.3	8.7	4714.8	15	4710.5	15.8	4717.2	
6/16/2015	8.7	4719.3	11.4	4721.5	16	4712.9	8.4	4715.1	14.4	4711.1	15.6	4717.4	
7/8/2015		#N/A	10.4	4722.5	16.2	4712.7	9.7	4713.8	14.7	4710.8	14.9	4718.1	
8/1/2015		#N/A	9.2	4723.7	15.2	4713.7	9.4	4714.1		#N/A	12.6	4720.4	
9/11/2015		#N/A	9.5	4723.4	14.7	4714.2	9.4	4714.1	11.6	4711.9	12.8	4720.2	
10/14/2015		#N/A	9.8	4723.1	15.6	4713.3	9.2	4714.3	14.8	4710.7	13.5	4719.5	
11/20/2015		#N/A	10.3	4722.6	16.4	4712.5	9.3	4714.2	16.1	4709.4	14.7	4718.8	
12/1/2015		#N/A	10.6	4722.3	16.7	4712.2	9.5	4714.0	16.5	4709.0	14.6	4718.4	
1/11/2016		#N/A	11	4721.9	17.2	4711.7	9.8	4713.7	17	4708.5	15	4718.0	
2/1/2016		#N/A	11.1	4721.8	17.5	4711.4	9.6	4713.9	17.3	4708.2	15.4	4717.6	
3/9/2016		#N/A	11.4	4721.5	17.6	4711.3	10	4713.5	17.4	4708.1	15.5	4717.5	
4/12/2016		#N/A	11.6	4721.3	17.8	4711.1	10.2	4713.3	17.4	4708.1	15.7	4717.3	
5/13/2016		#N/A	11.7	4721.2	17.7	4711.2	9.8	4713.7	17.2	4708.3	15.9	4717.1	
6/3/2016		#N/A	10.5	4722.4	17.5	4711.4	9.5	4714.0	16.8	4708.7	15.8	4717.2	
7/14/2016		#N/A	10.3	4722.6	16.9	4712.0	9.7	4713.8	15.7	4709.8	15.5	4717.5	
8/16/2016		#N/A	9.6	4723.3	15.6	4713.3	9.5	4714.0	14.3	4711.2	13.7	4719.3	
9/16/2016		#N/A	10.3	4722.6	15.9	4713.0	9.7	4713.8	15	4710.5	14	4719.0	
10/24/2016		#N/A	10.9	4722.0	16.8	4712.1	9.9	4713.6	16.2	4709.3	14.6	4718.4	
11/20/2016		#N/A	11.2	4721.7	17.1	4711.8	10.1	4713.4	16.6	4708.9	15.1	4717.9	
12/16/2016		#N/A	11.7	4721.2	17.6	4711.3	10.3	4713.2	17.4	4708.1	15.6	4717.4	
1/12/2017		#N/A	11.9	4721.0	18	4710.9	10.5	4713.0	17.8	4707.7	15.9	4717.1	
4/19/2017		#N/A			#N/A	18.8	4710.1	11.1	4712.4	18.8	4706.7	16.6	4716.4
5/24/2017		#N/A			#N/A	#N/A	9.7	4714.3	17.4	4708.1		#N/A	
6/28/2017		#N/A			#N/A	37.2	4691.7	10.2	4713.3	18	4707.5	15.8	4717.2
7/24/2017		#N/A	10.4	4722.5	17.3	4711.6	10.2	4713.3	16.9	4708.6	14.8	4718.2	
8/26/2017		#N/A	8.6	4724.3	16.1	4712.8	9.3	4714.2	15.3	4710.2	14	4719.0	
9/22/2017		#N/A	10	4722.9	16.3	4712.6	9.7	4713.8	15.8	4709.7	13.9	4719.1	
10/29/2017		#N/A	10.4	4722.5	16.6	4712.3	9.3	4714.2	16.3	4709.2	14.5	4718.5	
11/20/2017		#N/A			#N/A		15.5	4714.0	16.5	4709.0		#N/A	
1/28/2018		#N/A	11.5	4721.4	17.4	4711.5	10.1	4713.4	17	4708.5	15.5	4717.5	
3/28/2018		#N/A	21	4711.9	17.9	4711.0	10.4	4713.1	17.5	4708.0	15.9	4717.1	
4/27/2018		#N/A	12.2	4720.7	18.1	4710.8	10.8	4712.7	17.7	4707.8	16.2	4716.8	
5/21/2018		#N/A	13	4720.9	18	4710.9	10.3	4713.2	17.6	4707.9		#N/A	
6/28/2018		#N/A	11	4721.9	18	4710.9	10.3	4713.2	17.4	4708.1	16.7	4716.8	
7/31/2018		#N/A			#N/A		9.8	4713.7	16.5	4709.0		#N/A	
8/16/2018		#N/A			#N/A		9.79	4713.7	16.1	4709.4	15.51	4717.4	
9/25/2018		#N/A			#N/A		10.36	4713.1	15.7	4709.8	15.38	4717.6	

MW-15 silted in, readings ceased

Tolgate Pit parcel removed from WW Farms Pit; AI stopped taking readings on MW-15, 16, and 20

Baseline Groundwater Levels (12/21/2001 to 9/25/2018, pre-Tollgate Pit mining)

Parameter	Monitoring Wells on Tollgate Pit (DRMS Permit No. M-2018-060)						Nearby Monitorings Wells on WW Farms Pit (DRMS Permit No. M-99-098)					
	MW-15		MW-16		MW-20		MW-2		MW-3		MW-17	
	Depth [ft]	Elev [ft]	Depth [ft]	Elev [ft]	Depth [ft]	Elev [ft]	Depth [ft]	Elev [ft]	Depth [ft]	Elev [ft]	Depth [ft]	Elev [ft]
Average	8.7	4719.2	11.0	4721.9	17.3	4711.6	10.7	4712.8	16.8	4708.7	15.3	4717.7
Median	8.8	4719.2	11.1	4721.8	17	4711.9	10.3	4713.2	16.2	4709.3	15.4	4717.6
Minimum depth (max elevation)	6	4722.0	4	4728.9	13.3	4715.6	7.6	4715.9	12.9	4712.6	11.5	4721.5
Maximum depth (minimum elevation)	10.7	4717.3	21	4711.9	37.2	4691.7	15.3	4708.2	23.8	4701.7	17.8	4715.2

