

Monitoring well measurement data

Pueblo East Pit

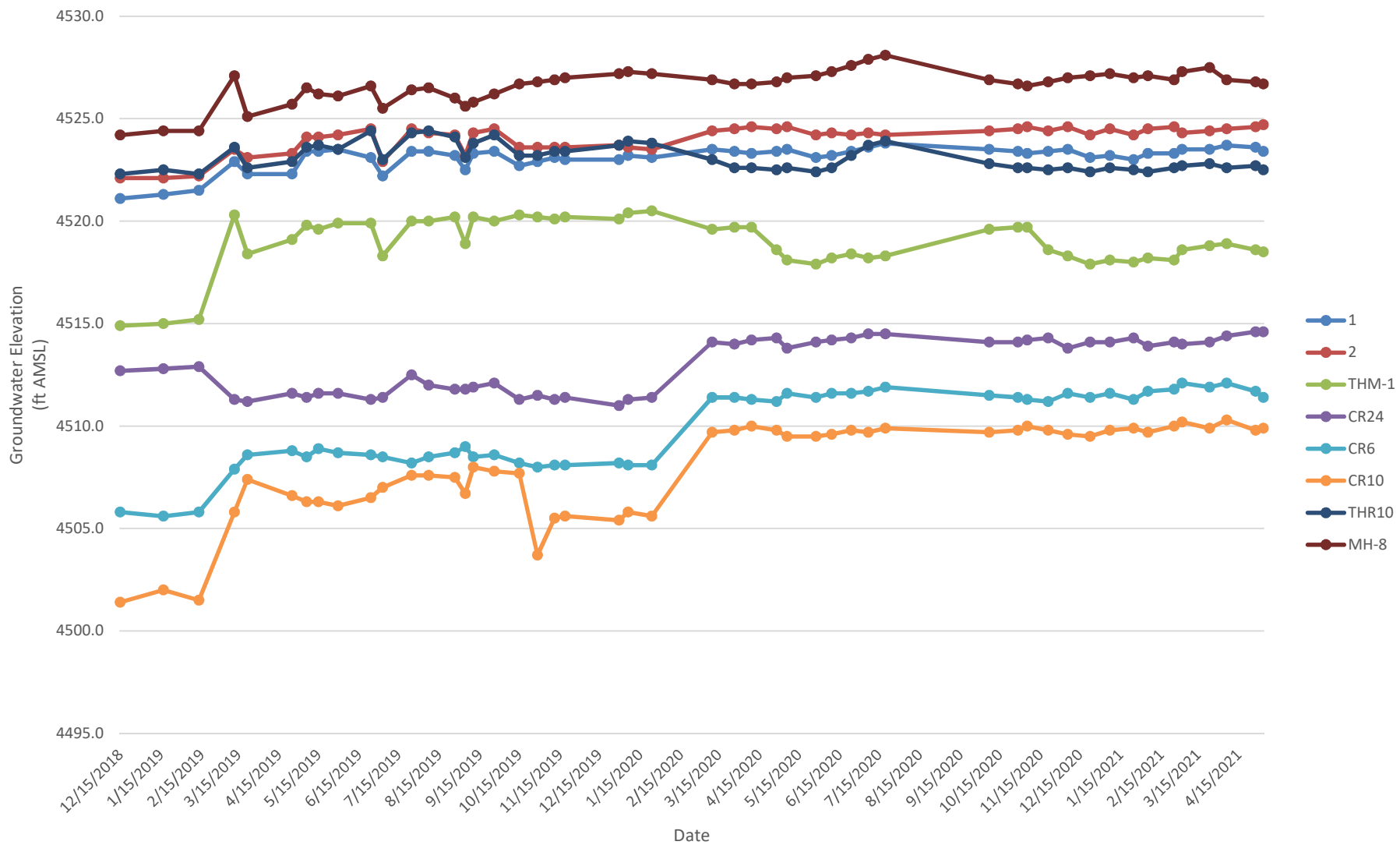
Monitoring Hole #	1		2		3		4		5		6		7		8	
Alternative Name					THM-1		CR24		CR6		CR10		THR10		MH-8	
Permit No.	279124		262268		277098		046817-MH, 277131		46206-MH, 277133		046814-MH, 277135		WDID: 1406466		57688-MH	
Surface Elevation	4532.0		4533.0		4536.7		4542.1		4525.3		4528.4		4535.6		4535.6	
Height of Stickup	2.5		2.7		3.0		2.6		2.8		2.9		2.7		3.0	
Date of Reading	DTW, toc (ft)	Elevation (ft AMSL)	DTW, toc (ft)	Elevation (ft AMSL)	DTW, toc (ft)	Elevation (ft AMSL)	DTW, toc (ft)	Elevation (ft AMSL)	DTW, toc (ft)	Elevation (ft AMSL)	DTW, toc (ft)	Elevation (ft AMSL)	DTW, toc (ft)	Elevation (ft AMSL)	DTW, toc (ft)	Elevation (ft AMSL)
12/15/2018	13.4	4521.1	13.6	4522.1	24.8	4514.9	32.0	4512.7	22.3	4505.8	29.9	4501.4	16.0	4522.3	14.4	4524.2
1/17/2019	13.2	4521.3	13.6	4522.1	24.7	4515.0	31.9	4512.8	22.5	4505.6	29.3	4502.0	15.8	4522.5	14.2	4524.4
2/13/2019	13.0	4521.5	13.5	4522.2	24.5	4515.2	31.8	4512.9	22.3	4505.8	29.8	4501.5	16.0	4522.3	14.2	4524.4
3/7/2019	12.3	4522.2	12.8	4522.9	21.4	4518.3	33.3	4511.4	19.6	4508.5	24.3	4507.0	15.3	4523.0	13.1	4525.5
3/22/2019	12.2	4522.3	12.6	4523.1	21.3	4518.4	33.5	4511.2	19.5	4508.6	23.9	4507.4	15.7	4522.6	13.5	4525.1
4/9/2019	12.0	4522.5	12.5	4523.2	20.8	4518.9	32.9	4511.8	19.1	4509.0	24.6	4506.7	15.2	4523.1	13.0	4525.6
4/25/2019	12.2	4522.3	12.4	4523.3	20.6	4519.1	33.1	4511.6	19.3	4508.8	24.7	4506.6	15.4	4522.9	12.9	4525.7
5/15/2019	11.1	4523.4	11.6	4524.1	20.1	4519.6	33.1	4511.6	19.2	4508.9	25.0	4506.3	14.6	4523.7	12.4	4526.2
5/30/2019	11.0	4523.5	11.5	4524.2	19.8	4519.9	33.1	4511.6	19.4	4508.7	25.2	4506.1	14.8	4523.5	12.5	4526.1
6/5/2019	11.1	4523.4	11.6	4524.1	19.9	4519.8	33.3	4511.4	19.6	4508.5	25.0	4506.3	14.7	4523.6	12.1	4526.5
6/24/2019	11.4	4523.1	11.2	4524.5	19.8	4519.9	33.4	4511.3	19.5	4508.6	24.8	4506.5	13.9	4524.4	12.0	4526.6
7/25/2019	11.1	4523.4	11.2	4524.5	19.7	4520.0	32.2	4512.5	19.9	4508.2	23.7	4507.6	14.0	4524.3	12.2	4526.4
8/07/2019	11.1	4523.4	11.4	4524.3	19.7	4520.0	32.7	4512.0	19.6	4508.5	23.7	4507.6	13.9	4524.4	12.1	4526.5
8/27/2019	11.3	4523.2	11.5	4524.2	19.5	4520.2	32.9	4511.8	19.4	4508.7	23.8	4507.5	14.2	4524.1	12.6	4526.0
9/10/2019	11.2	4523.3	11.4	4524.3	19.5	4520.2	32.8	4511.9	19.6	4508.5	23.3	4508.0	14.5	4523.8	12.8	4525.8
9/26/2019	11.1	4523.4	11.2	4524.5	19.7	4520.0	32.6	4512.1	19.5	4508.6	23.5	4507.8	14.1	4524.2	12.4	4526.2
10/15/2019	11.8	4522.7	12.1	4523.6	19.4	4520.3	33.4	4511.3	19.9	4508.2	23.6	4507.7	15.1	4523.2	11.9	4526.7
10/29/2019	11.6	4522.9	12.1	4523.6	19.5	4520.2	33.2	4511.5	20.1	4508.0	27.6	4503.7	15.1	4523.2	11.8	4526.8
11/11/2019	11.4	4523.1	12.1	4523.6	19.6	4520.1	33.4	4511.3	20.0	4508.1	25.8	4505.5	14.9	4523.4	11.7	4526.9
11/19/2019	11.5	4523.0	12.1	4523.6	19.5	4520.2	33.3	4511.4	20.0	4508.1	25.7	4505.6	14.9	4523.4	11.6	4527.0
12/3/2019	11.6	4522.9	12.2	4523.5	19.4	4520.3	33.4	4511.3	20.2	4507.9	25.5	4505.8	14.7	4523.6	11.5	4527.1
12/30/2019	11.5	4523.0	12.0	4523.7	19.6	4520.1	33.7	4511.0	19.9	4508.2	25.9	4505.4	14.6	4523.7	11.4	4527.2
01/06/2020	11.3	4523.2	12.1	4523.6	19.3	4520.4	33.4	4511.3	20.0	4508.1	25.5	4505.8	14.4	4523.9	11.3	4527.3
01/24/2020	11.4	4523.1	12.2	4523.5	19.2	4520.5	33.3	4511.4	20.0	4508.1	25.7	4505.6	14.5	4523.8	11.4	4527.2
03/10/2020	11.0	4523.5	11.3	4524.4	20.1	4519.6	30.6	4514.1	16.7	4511.4	21.6	4509.7	15.3	4523.0	11.7	4526.9
03/27/2020	11.1	4523.4	11.2	4524.5	20.0	4519.7	30.7	4514.0	16.7	4511.4	21.5	4509.8	15.7	4522.6	11.9	4526.7
04/09/2020	11.2	4523.3	11.1	4524.6	20.0	4519.7	30.5	4514.2	16.8	4511.3	21.3	4510.0	15.7	4522.6	11.9	4526.7
04/28/2020	11.1	4523.4	11.2	4524.5	21.1	4518.6	30.4	4514.3	16.9	4511.2	21.5	4509.8	15.8	4522.5	11.8	4526.8
05/06/2020	11.0	4523.5	11.1	4524.6	21.6	4518.1	30.9	4513.8	16.5	4511.6	21.8	4509.5	15.7	4522.6	11.6	4527.0
05/28/2020	11.4	4523.1	11.5	4524.2	21.8	4517.9	30.6	4514.1	16.7	4511.4	21.8	4509.5	15.9	4522.4	11.5	4527.1
06/09/2020	11.3	4523.2	11.4	4524.3	21.5	4518.2	30.5	4514.2	16.5	4511.6	21.7	4509.6	15.7	4522.6	11.3	4527.3
06/24/2020	11.1	4523.4	11.5	4524.2	21.3	4518.4	30.4	4514.3	16.5	4511.6	21.5	4509.8	15.1	4523.2	11.0	4527.6
07/07/2020	10.9	4523.6	11.4	4524.3	21.5	4518.2	30.2	4514.5	16.4	4511.7	21.6	4509.7	14.6	4523.7	10.7	4527.9
07/20/2020	10.7	4523.8	11.5	4524.2	21.4	4518.3	30.2	4514.5	16.2	4511.9	21.4	4509.9	14.4	4523.9	10.5	4528.1
10/07/2020	11.0	4523.5	11.3	4524.4	20.1	4519.6	30.6	4514.1	16.6	4511.5	21.6	4509.7	15.5	4522.8	11.7	4526.9
10/29/2020	11.1	4523.4	11.2	4524.5	20.0	4519.7	30.6	4514.1	16.7	4511.4	21.5	4509.8	15.7	4522.6	11.9	4526.7
11/05/2020	11.2	4523.3	11.1	4524.6	20.0	4519.7	30.5	4514.2	16.8	4511.3	21.3	4510.0	15.7	4522.6	12.0	4526.6
11/21/2020	11.1	4523.4	11.3	4524.4	21.1	4518.6	30.4	4514.3	16.9	4511.2	21.5	4509.8	15.8	4522.5	11.8	4526.8
12/06/2020	11.0	4523.5	11.1	4524.6	21.4	4518.3	30.9	4513.8	16.5	4511.6	21.7	4509.6	15.7	4522.6	11.6	4527.0
12/23/2020	11.4	4523.1	11.5	4524.2	21.8	4517.9	30.6	4514.1	16.7	4511.4	21.8	4509.5	15.9	4522.4	11.5	4527.1
01/07/2021	11.3	4523.2	11.2	4524.5	21.6	4518.1	30.6	4514.1	16.5	4511.6	21.5	4509.8	15.7	4522.6	11.4	4527.2
01/25/2021	11.5	4523.0	11.5	4524.2	21.7	4518.0	30.4	4514.3	16.8	4511.3	21.4	4509.9	15.8	4522.5	11.6	4527.0
02/05/2021	11.2	4523.3	11.2	4524.5	21.5	4518.2	30.8	4513.9	16.4	4511.7	21.6	4509.7	15.9	4522.4	11.5	4527.1
02/25/2021	11.2	4523.3	11.1	4524.6	21.6	4518.1	30.6	4514.1	16.3	4511.8	21.3	4510.0	15.7	4522.6	11.7	4526.9
03/03/2021	11.0	4523.5	11.4	4524.3	21.1	4518.6	30.7	4514.0	16.0	4512.1	21.1	4510.2	15.6	4522.7	11.3	4527.3
03/24/2021	11.0	4523.5	11.3	4524.4	20.9	4518.8	30.6	4514.1	16.2	4511.9	21.4	4509.9	15.5	4522.8	11.1	4527.5

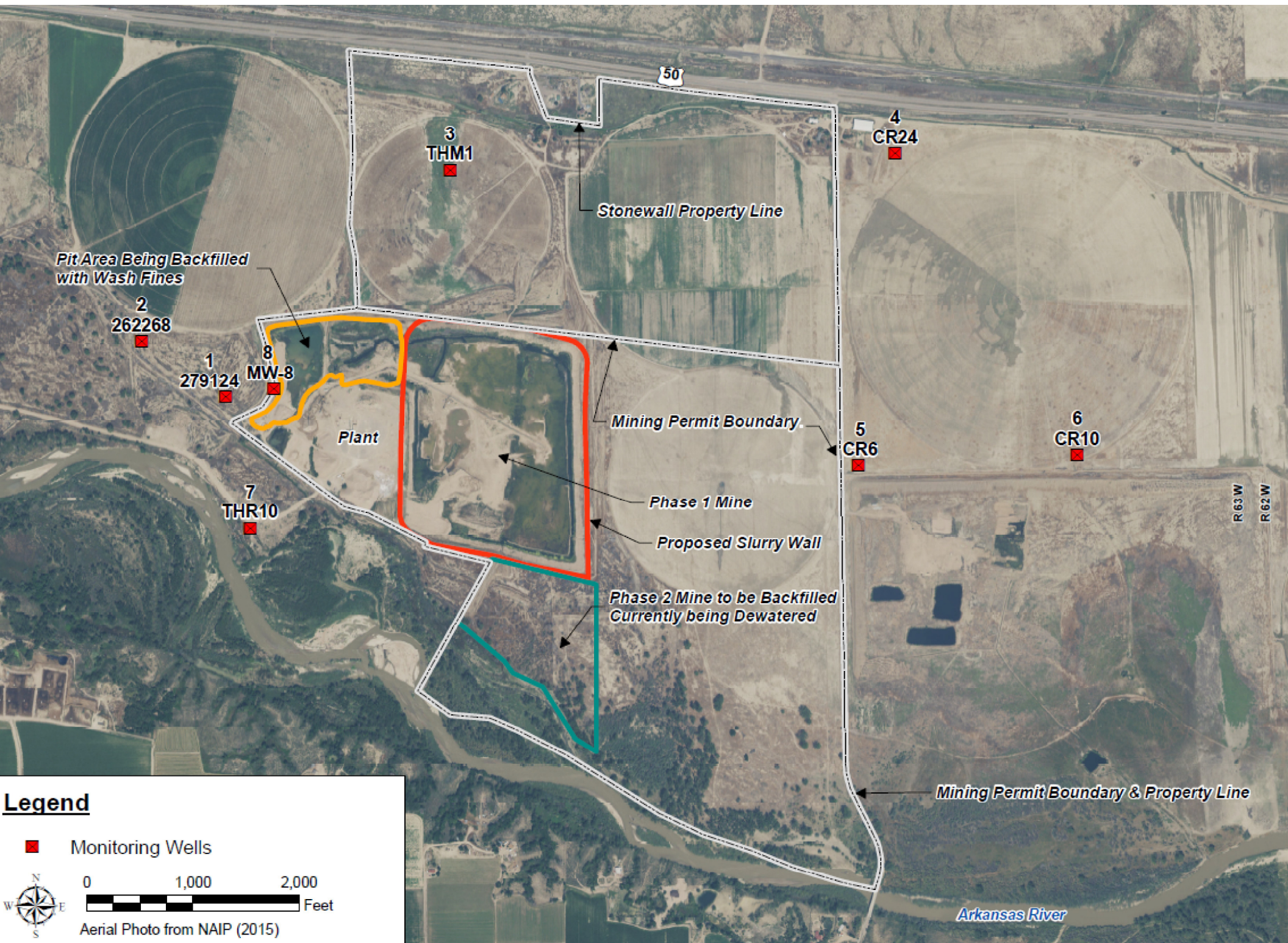
04/06/2021	10.8	4523.7	11.2	4524.5	20.8	4518.9	30.3	4514.4	16.0	4512.1	21.0	4510.3	15.7	4522.6	11.7	4526.9
04/28/2021	10.9	4523.6	11.1	4524.6	21.1	4518.6	30.1	4514.6	16.4	4511.7	21.5	4509.8	15.6	4522.7	11.8	4526.8
05/04/2021	11.1	4523.4	11.0	4524.7	21.2	4518.5	30.1	4514.6	16.7	4511.4	21.4	4509.9	15.8	4522.5	11.9	4526.7
		4534.5		4535.7		4539.7		4544.7		4528.1		4531.3		4538.3		4538.6

Notes

1. All depth to water measurements are taken from the top of the stickup casing, ranging from 2.5'-3.0'.
2. Monitoring Hole #8 (MH-8) was constructed on 3/2/2018.
3. All groundwater readings from Nov. 2017 to Dec. 2018 were taken near the middle of every month.
4. Well Monitoring frequency increased to Bi-Monthly in Jan. 2019 associated with leak test.

Pueblo East M2000-041 Water Levels







STATE OF
COLORADO

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Pueblo East Well Readings

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Fri, Jun 25, 2021 at 9:10 AM

To: Jodi Schreiber <jodi@arycorp.com>

Good Morning Jodi,

Please provide a narrative that addresses the missing measurements from February, August and September 2020.

Thank you,

Patrick

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STATE OF
COLORADO

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Pueblo East Well Readings

Jodi Schreiber <jodi@arycorp.com>

Sun, Jun 27, 2021 at 5:45 PM

To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>

Cc: Jodi Schreiber <jodi@arycorp.com>, John Paul Ary <jp@arycorp.com>

Patrick,

The use of the previous spreadsheet was not adequate for the use needed. The new readings had to be added and then deleted to make room for the new data. In this adding and deleting cycle, it was by error these months were deleted in an effort to make room for the incoming months. We have searched our handwritten data logs and have been unable to locate the hand logs for these months. We felt that since the readings before and after these missing timeframes were still well within the normal range, that the data could still be used and considered accurate for the purpose needed.

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