



E-470 Public Highway Authority
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Adams County
Arapahoe County
Aurora, CO
Brighton, CO
Commerce City, CO
Douglas County
Parker, CO
Thornton, CO

March 28, 2025

Department of Natural Resources
Attn: Nikie Gagnon
Colorado Division of Reclamation, Mining & Safety
1313 Sherman Street Room 215
Denver, CO 80203-2243

Re: Sandy Acres Pit, DRMS Permit No. M-1980-110
2025 1st quarter Groundwater Monitoring report

Dear Ms. Gagnon:

This is the quarterly report for our ground water monitoring plan.

During this quarter we completed building a berm on the south end inside the pond that is adjacent to the toe of the existing slope. We extended this berm on the east side north of the cross berm up to the end of the previously installed drainpipe that runs to the sump (The aerial below shows the berms). We have seeded the disturbed areas and berms.

We also cleaned the inlet of the existing sump and extended the sump to the north. Water was turned back into the sump inlet on February 28, 2025. The level of the water coming into the sump has decreased by one foot (see photos below) from February 28th to March 19th. Please note that the gauge is for reference only and does not indicate the actual depth of water. The test wells downstream of the sump show an increase in water elevation which indicates that the cleaned/upgraded sump is functioning better.

The water level south of the cross berm is little changed from the 4th quarter report. The water north of the cross berm continues to drop and has dropped approximately 1.5 feet since the cross berm was completed.

The well readings, shown below, indicate that the ground water levels upstream of the sump are decreasing from the 4th quarter readings. This is to be expected based on the historic seasonality of ground water levels in this area. However, the ground water levels are still generally higher than were measured in years prior to 2023 for this time of year. Please see the attached table and graph showing the data.

An IGA with Aurora to supply water for our substitute water supply plan was executed in January 2025. Aurora has been and will continue to release water on our behalf for the term of the agreement or such time that substitute water is not required.

We are working with South Adams County Water & Sanitation District to determine if we can reach an agreement for them to replace our past depletions. The technical portion looks promising but the legal portion is still being developed.

If you have any questions or need more information please let me know.

Sincerely

A handwritten signature in black ink that reads "Derek Slack".

Derek Slack, P.E.
Director of Roadway Maintenance

3/2/2025

Legend

Sump

Cross berm

Berm

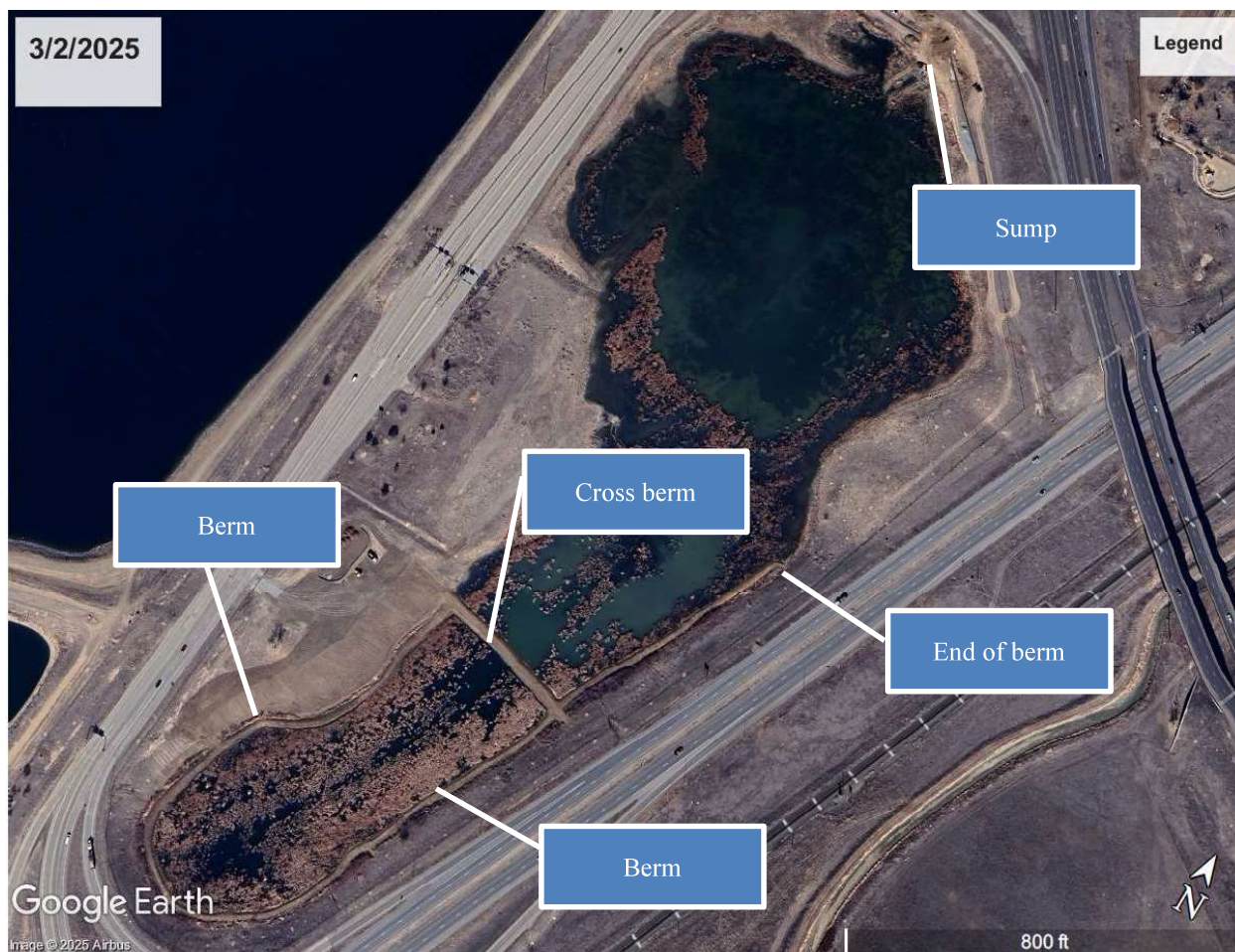
End of berm

Berm

Google Earth

Image © 2025 Airbus

800 ft



February 28, 2025



March 19, 2025



Sandy Acres well monitoring

1st Quarter 2025

	Well #1		Well #2		Well #3		Well #4		Well #5		Well #6		NW-1		NW-2	
Elevation at top of tube	5024.901		5033.775		5038.318		5033.32		5029.13		5014.509		5025.162		5022.655	
Date	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation
3/11/2020	16	5005.445			19	5016.32	16	5014.357	15	5011.402	5.5	5005.026				
4/8/2020	13.1	5011.80	20.6	5013.18	21.4	5016.92	19.2	5014.12	17.4	5011.73	10.4	5004.11				
4/20/2020	12.7	5012.20	20.4	5013.38	20.9	5017.42	18.9	5014.42	17.1	5012.03	10.2	5004.31				
4/29/2020	12.3	5012.60	19.9	5013.88	20.6	5017.72	18.7	5014.62	17	5012.13	9.9	5004.61				
5/7/2020	11.8	5013.10	19.5	5014.28	20.4	5017.92	18.4	5014.92	16.7	5012.43	9.7	5004.81				
5/13/2020	11.6	5013.30	19.4	5014.38	20.2	5018.12	18.3	5015.02	16.6	5012.53	9.4	5005.11				
5/20/2020	11.3	5013.60	19.1	5014.68	20.1	5018.22	18.1	5015.22	16.4	5012.73	9.4	5005.11				
5/28/2020	11.3	5013.60	19	5014.78	20.1	5018.22	18.1	5015.22	16.3	5012.83	9.1	5005.41				
6/4/2020	11	5013.90	18.7	5015.08	20	5018.32	17.9	5015.42	16.2	5012.93	9	5005.51				
6/11/2020	10.9	5014.00	18.6	5015.18	20	5018.32	17.9	5015.42	16.1	5013.03	8.9	5005.61				
6/18/2020	10.7	5014.20	18.5	5015.28	19.9	5018.42	17.8	5015.52	16	5013.13	8.8	5005.71				
6/25/2020	10.4	5014.50	18.4	5015.38	20	5018.32	17.8	5015.52	16.2	5012.93	8.6	5005.91				
7/6/2020	10.2	5014.70	18	5015.78	19.6	5018.72	17.5	5015.82	15.7	5013.43	8.5	5006.01				
7/15/2020	10.2	5014.70	18.1	5015.68	20	5018.32	17.6	5015.72	15.8	5013.33	8.3	5006.21				
7/22/2020	10.2	5014.70	18.1	5015.68	20	5018.32	17.6	5015.72	15.7	5013.43	8.1	5006.41				
7/30/2020	10.5	5014.40	18.3	5015.48	20.1	5018.22	18	5015.32	15.9	5013.23	8.2	5006.31			13.30	5009.36
8/5/2020	10.7	5014.20	18.4	5015.38	20.1	5018.22	17.7	5015.62	15.9	5013.23	8.4	5006.11	18.20	5006.96	13.20	5009.46
8/12/2020	10.6	5014.30	18.5	5015.28	20.1	5018.22	17.8	5015.52	16	5013.13	8.5	5006.01	18.30	5006.86	13.30	5009.36
8/20/2020	10.7	5014.20	18.6	5015.18	20.1	5018.22	18	5015.32	16.1	5013.03	8.6	5005.91	18.40	5006.76	13.30	5009.36
8/27/2020	10.8	5014.10	18.6	5015.18	20.2	5018.12	18.1	5015.22	16.1	5013.03	8.6	5005.91	18.50	5006.66	13.40	5009.26
9/2/2020	10.9	5014.00	18.8	5014.98	20.4	5017.92	18.2	5015.12	16.1	5013.03	8.6	5005.91	18.70	5006.46	13.50	5009.16
9/11/2020	11.1	5013.80	18.9	5014.88	20.5	5017.82	18.2	5015.12	16.2	5012.93	8.7	5005.81	18.80	5006.36	13.60	5009.06
9/18/2020	11.1	5013.80	19.1	5014.68	20.5	5017.82	18.2	5015.12	16.3	5012.83	8.8	5005.71	18.80	5006.36	13.80	5008.86
9/24/2020	11.1	5013.80	18.9	5014.88	20.3	5018.02	18.2	5015.12	16.3	5012.83	8.7	5005.81	18.80	5006.36	13.60	5009.06
10/1/2020	11.2	5013.70	19	5014.78	20.5	5017.82	18.2	5015.12	16.4	5012.73	8.8	5005.71	18.80	5006.36	13.70	5008.96
10/9/2020	11.1	5013.80	19	5014.78	20.4	5017.92	18.1	5015.22	16.3	5012.83	8.8	5005.71	18.70	5006.46	13.80	5008.86
10/30/2020	11.3	5013.60	19.1	5014.68	20.4	5017.92	18.2	5015.12	16.3	5012.83	8.7	5005.81	18.60	5006.56	13.60	5009.06
11/6/2020	11.4	5013.50	19.2	5014.58	20.5	5017.82	18.2	5015.12	16.3	5012.83	8.7	5005.81	18.80	5006.36	13.80	5008.86
11/13/2020	11.6	5013.30	19.5	5014.28	20.8	5017.52	18.4	5014.92	16.5	5012.63	8.9	5005.61	19.00	5006.16	14.00	5008.66
11/19/2020	11.9	5013.00	19.8	5013.98	21	5017.32	18.7	5014.62	16.7	5012.43	9.2	5005.31	19.20	5005.96	14.20	5008.46
12/24/2020	12.7	5012.20	20.5	5013.28	21.7	5016.62	19.2	5014.12	17.3	5011.83	10.1	5004.41	19.80	5005.36	15.10	5007.56
1/8/2021	12.9	5012.00	20.7	5013.08	21.9	5016.42	19.4	5013.92	17.6	5011.53	10.2	5004.31	20.10	5005.06	15.30	5007.36
1/21/2021	13.1	5011.80	20.9	5012.88	22	5016.32	19.6	5013.72	17.7	5011.43	10.3	5004.21	20.30	5004.86	15.20	5007.46
2/2/2021	13.3	5011.60	21.1	5012.68	22.1	5016.22	19.8	5013.52	17.8	5011.33	10.2	5004.31	20.40	5004.76	15.40	5007.26
3/4/2021	13.7	5011.20	21.1	5012.68	22.6	5015.72	19.5	5013.82	18.2	5010.93	10.7	5003.81	21.20	5003.96	16.20	5006.46
4/8/2021	13.9	5011.00	21.7	5012.08	22.5	5015.82	20	5013.32	18.1	5011.03	10.7	5003.81	21.00	5004.16	15.80	5006.86
4/15/2022	13.1	5011.80	20.8	5012.98	21.6	5016.72	19.5	5013.82	17.5	5011.63	10.3	5004.21	19.80	5005.36	15.30	5007.36
4/27/2022	12.9	5012.00	20.5	5013.28	21	5017.32	19.6	5013.72	17.7	5011.43	10.1	5004.41	19.90	5005.26	15.00	5007.66
5/10/2022	12	5012.90	17.6	5016.18	20.8	5017.52	19.2	5014.12	17	5012.13	9.7	5004.81	19.50	5005.66	14.60	5008.06
5/18/2022	11.8	5013.10	17.4	5016.38	20.7	5017.62	18.8	5014.52	16.8	5012.33	9.5	5005.01	19.20	5005.96	14.10	5008.56
5/26/2022	11.5	5013.40	19.6	5014.18	20.6	5017.72	18.5	5014.82	16.5	5012.63	9.3	5005.21	19.10	5006.06	14.00	5008.66
6/8/2022	11.4	5013.50	17.1	5016.68	20.2	5018.12	18.3	5015.02	16.3	5012.83	9	5005.51	17.10	5008.06	13.70	5008.96
6/28/2022	10.7	5014.20	18.4	5015.38	20	5018.32	18.1	5015.22	16	5013.13	8.6	5005.91	16.20	5008.96	13.10	5009.56
7/26/2022	10.1	5014.80	18.3	5015.48	19.8	5018.52	17.8	5015.52	15.6	5013.53	8.2	5006.31	17.90	5007.26	12.40	5010.26
8/24/2022	10.4	5014.50	18.3	5015.48	19.9	5018.42	17.9	5015.42	15.8	5013.33	8.3	5006.21	18.00	5007.16	12.50	5010.16
9/9/2022	10.2	5014.70	18.2	5015.58	20	5018.32	17.8	5015.52	15.4	5013.73	8.1	5006.41	17.90	5007.26	12.80	5009.86
9/30/2022	10.3	5014.60		5033.78		5038.32		5033.32		5029.13		5014.51	17.60	5007.56	12.40	5010.26
10/10/2022	10.4	5014.50	18.5	5015.28	20.1	5018.22	18	5015.32	15.6	5013.53	8.4	5006.11	18.10	5007.06	13.00	5009.66
12/21/2022	12	5012.90	20	5013.78	21.3	5017.02	18.9	5014.42	16.4	5012.73	8.4	5006.11	17.40	5007.76	13.40	5009.26
2/7/2023	12.75	5012.15	20.7	5013.08									19.00	5006.16	14.70	5007.96
2/14/2023	13.1	5011.80	21	5012.78	22.1	5016.22	20	5013.32	17.6	5011.53	0		19.50	5005.66	14.80	5007.86
3/1/2023	13.4	5011.50	21.2	5012.58	22.4	5015.92	20.1	5013.22	17.8	5011.33	10	5004.51	19.80	5005.36	15.00	5007.66
3/21/2023	13.8	5011.10	21.4	5012.38	22.5	5015.82	20.2	5013.12	18	5011.13						

Sandy Acres well monitoring

1st Quarter 2025

	Well #1		Well #2		Well #3		Well #4		Well #5		Well #6		NW-1		NW-2	
Elevation at top of tube	5024.901		5033.775		5038.318		5033.32		5029.13		5014.509		5025.162		5022.655	
Date	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation	Reading	Elevation
2/26/2025	11.8	5013.10	19.7	5014.08	20.8	5017.52	18.3	5015.02	15.8	5013.33	8.8	5005.71	18.70	5006.46	13.80	5008.86
3/20/2025	11.9	5013.00	19.8	5013.98	21	5017.32	18.6	5014.72	16.2	5012.93	8.1	5006.41	17.80	5007.36	13.20	5009.46

Sandy Acres
Summary of Monitoring Well Water Level Data
1st Quarter 2025

