



L.G. EVERIST, INC.

ROCK SOLID SINCE 1876

7321 E. 88TH AVENUE, SUITE 200

HENDERSON, COLORADO 80640

PHONE 303-287-9606 • FAX 303-289-1348

June 1, 2022

Division of Reclamation, Mining, and Safety
Department of Natural Resources
1313 Sherman Street, Room 215
Denver, CO 80203

RE: 112c Reclamation Permit - Attachments for Annual Fee and Annual Report

To Whom It May Concern:

PERMITTEE:	L. G. Everist, Inc.
PERMIT NO.:	M-1999-120
OPERATION NAME:	Fort Lupton Sand and Gravel Mine
ANNIVERSARY DATE:	June 1 (annually)
ANNUAL FEE:	\$791.00

The DRMS Annual Report for Fort Lupton Sand and gravel (M-1999-120) has been submitted online. The annual fee has been paid online with a credit card.

Enclosed with this letter are the attachments for the DRMS Annual Report. They include:

Exhibit F - Reclamation Plan Map - which shows the current permit area and reclamation plan. Areas of the map are marked to show the active mining areas, and the recently sloped areas and seeded areas - which are shaded green. The phases which will have some mining in them through 2022 are Blue Ribbon, Swingle South and Fort Lupton West.

Groundwater Monitoring Report – includes data review, recent data, and active wells map.

If you have any questions, feel free to contact me at 303-286-2247 or lmshults@lgeverist.com.

Sincerely,

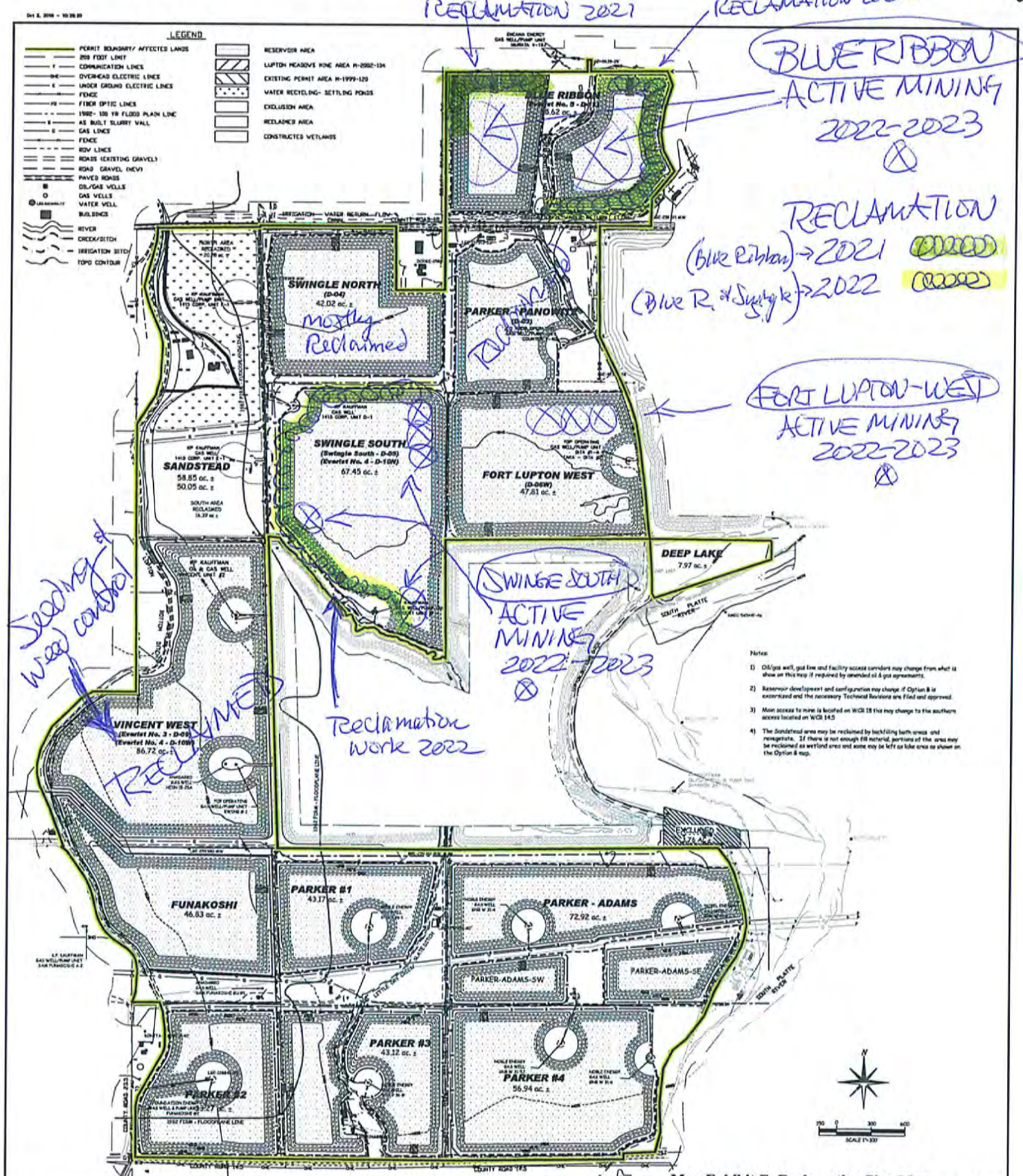
Lynn Mayer Shults
Regulatory Manager

cc: L.G. Everist - Chris Wilkins, Fort Lupton Site Manager

attached:

- Reclamation Plan Map
- Groundwater Monitoring Report - data review, data, wells map

DEMS M-1999-120 - Annual Rpt. - (Jun-2022)



DRMS ANNUAL REPORT - GROUNDWATER MONITORING REPORT

SITE: L.G. Everist, Inc. - Fort Lupton Sand and Gravel, M-1999-120

DATE: Anniversary date - June 1, 2022

Fort Lupton Sand and Gravel's Groundwater Monitoring Report includes monitoring well data from January-2021 through May-2022 and a map with locations of the active groundwater monitoring wells in and around the active mining operation. Prior data has been submitted in prior annual reports. The map shows the active monitoring well locations (MW = monitoring well). (Note: Monitoring wells that have been mined out as mining progresses no longer exist, and so are not on the map or listed in the data.)

The majority of the monitoring wells have maintained groundwater levels within their baseline ranges established in L.G. Everist's (LGE) final adequacy response for the DRMS permit amendment in October-2012. This includes wells in areas where we are not yet mining, and also wells outside the perimeters of slurry walls - showing that the water is flowing around the slurry walls in natural patterns.

A few monitoring wells at Fort Lupton have fluctuated in and out of their baseline ranges. L.G. Everist has investigated the data and compared monitoring well results with their locations and nearby activities. Most wells that have been outside of baseline ranges are internal to LGE operations, and any fluctuating water levels would only affect the operator, so no mitigation is necessary. Some external wells that are outside of baseline ranges have been affected by the unlined mining operations in a neighboring mine (see details below). For these wells, LGE's lined operations are not the cause of the groundwater decrease, so no mitigation is required by LGE.

ACTIVE WELLS - Following is a detailed list of all active monitoring wells in and around the active mining operation - with notes on the location and accessibility of the wells, the groundwater level data for the reporting period, and explanations of the raw data and any contributing external (or internal) factors.

Any other well changes, investigation, and mitigation would also be noted in this report. In general, there have been no adverse effects on neighbors with any of changes indicated in these wells throughout this reporting period, and previous reporting periods. We continue to monitor all our active wells monthly.

MW-04 - internal to site - located in Fort Lupton West phase, south of the processing plant - within baseline ranges for most months, slightly below baseline winter and early spring months, back within baseline range in May. Because the well is internal, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary.

MW-06 - internal to site - located between Swingle-South phase and Sandstead phase, and sometimes not accessible when Little Dry Creek is high. After reclamation of nearby slopes the well has been slightly out of baseline range. But because the well is internal, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary.

MW-08 - external - edge of site - located on the south side of CR 18, outside of the Swingle-North slurry wall, and directly across from a neighboring unlined mining operation. MW-08 is not in baseline range, due to the dewatering of the neighboring unlined mining operation. However, there are no residential neighbors nearby to be affected.

Note: MW-08 was within baseline ranges until the neighboring mining operation on the north side of CR 18 started operations, including dewatering of their unlined mining areas. The other mine's dewatering of their unlined mining areas have affected local groundwater levels, as seen in our monitoring well. The original baseline for this monitoring well may no longer be applicable, due to the effects from this neighboring mine. As mentioned above, there are no residential neighbors nearby to be affected.

MW-09 - external - north of the Blue Ribbon phase, along County Road 25. The groundwater levels in the well are not in baseline range, but there are no residential neighbors nearby to be affected.

Note: The well is located east of CR 25 directly across from the neighboring unlined mining operation mentioned in MW-08. This well was within baseline ranges until the neighboring mining operation started dewatering their unlined mining areas, which have affected the groundwater levels in our monitoring well. The original baseline may no longer be applicable, due to the effects from this neighboring mine. As mentioned above, there are no residential neighbors nearby to be affected.

DRMS ANNUAL REPORT - GROUNDWATER MONITORING REPORT

SITE: L.G. Everist, Inc. - Fort Lupton Sand and Gravel, M-1999-120

DATE: Anniversary date - June 1, 2022

MW-11 - external - out of permit - located on the south side of CR 18, outside of the reclaimed and released Hill-Oakley phase's slurry wall, and across from the Blue Ribbon phase. Groundwater levels fluctuate between the low end of the baseline range and slightly out of baseline, which indicates that the approved/released slurry wall is working. There have been no effects on residential neighbors.

MW-14 - internal to site - located in the southeast corner of the Parker-Panowitz phase, within an approved slurry wall. Groundwater levels are below baseline ranges, which indicates that the approved slurry wall is working. Because the well is internal, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary.

Note: The Parker-Panowitz phase is completely mined and the reclamation sloping is mostly complete.

MW-20 - edge of site - this well is located at the southwest corner of the Sandstead phase. This well has stayed within baseline ranges for the past year, except for one month. In Sep-2021, the well went slightly high for one month, then settled back into its baseline range. No effects on any residential neighbors.

MW-21 - internal to site - this well is located along the south side of the Sandstead phase. This well has stayed within baseline ranges.

MW-24 - internal to site - this well is located along the east side of the Sandstead phase, with the Swingle-North phase to the east. This well has stayed within baseline ranges.

MW-25 - edge of site - this well is located at the northeast corner of the Sandstead phase. This well has stayed within baseline ranges for the past year. No effects on any residential neighbors.

Note: The unlined mining operation first mentioned in MW-08 is across the road to the north of MW-25.

MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 - all six of these wells are located in the south third of the site where mining has not yet begun. Once mining starts in this area, MW-30 will be internal to the site, the other five wells are located along site boundaries. All wells stayed within baseline ranges for the past year, except for one month. In Sep-2021, the MW-26 and MW-27 wells went slightly out of baseline for one month, then settled back into baseline range. Because there are no LGE mining operations occurring anywhere near this well, the temporary change was not caused by LGE. The causes of the temporary groundwater level change could be a combination of natural (low precipitation throughout Colorado), agricultural, or possibly public (road work). There were no effects on any neighbors.

MW-32 - was internal to site, now edge of site - because it is located at the southeast corner of the lined and released Meadows Lake phase, which is also the northeast corner of south end of the site where mining has not begun. The well is within baseline ranges.

MW-33 - internal to site - located at the southeast corner of the Vincent West phase. The well was inaccessible during reclamation work from July-2019 through April-2020. It became accessible again starting in May-2020, and the well has been within baseline ranges throughout the reporting period. Because the well is internal, changes in groundwater levels around this well could only affect LGE.

MW-34 - edge of site - located at the southwest corner of the Vincent West phase. This well has always stayed within baseline ranges. No effects on any residential neighbors.

MW-37 - edge of site - located along the western side of the Vincent West phase. This well has always stayed within baseline ranges. No effects on any residential neighbors.

MW-45 - internal to site - on the north side of Parker-Panowitz phase, which is located on the south side of CR 18, across from the Blue Ribbon phase on the north side of the road. This well has fluctuated slightly in and out of baseline ranges for the past year. Because the well is technically internal - located between two mining phases, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary. Also, there have been no effects on any residential neighbors.

DRMS ANNUAL REPORT - GROUNDWATER MONITORING REPORT

SITE: L.G. Everist, Inc. - Fort Lupton Sand and Gravel, M-1999-120

DATE: Anniversary date - June 1, 2022

MW-52 - internal to site - located within the Swingle-South slurry wall. It had usually been within baseline ranges until March-2020. Groundwater levels dipped below the baseline range starting in March-2020, which indicates that the approved slurry wall is working. Because the well is internal, changes in groundwater levels around this well could only affect LGE, therefore no mitigation is necessary.

MW-54 - internal to site - this well is located in the middle of the Sandstead phase. The 2-year baseline time period for MW-54 was completed in May-2019. This well has stayed within baseline ranges for the reporting period, except for two months. In Sep-2021 and Oct-2021 the well went slightly above the baseline range, then settled back into baseline range. There have been no effects on any residential neighbors.

MW-55 - edge of site - this is another fairly new well located on the northwestern edge the Sandstead phase. The 2-year baseline time period for MW-55 was completed in May-2019. This well has stayed within baseline ranges for the reporting period. No effects on any residential neighbors.

ATTACHED

- DATA - Groundwater Monitoring Wells Data from January-2021 through May-2022

- MAP - Groundwater Monitoring Wells Map

FORT LUPTON S&G MONITOR WELL NO.	MW-04 (internal)	MW-06 (internal)	MW-08 (edge of site)	MW-09 (offsite-far)	MW-11 (offsite-close)	MW-14 (internal)	MW-20 (edge of site)	MW-21 (internal)
NORTHING, FT	1283290.42	1283728.10	1285900.46	1287365.87	1285909.77	1284654.27	1283584.51	1283603.67
EASTING, FT	3187818.84	3185934.31	3186592.51	3187426.10	3189221.98	3188830.71	3185761.31	3186195.02
ELEVATION (TOG), FT	4,875.66	4,873.53	4,869.20	4,866.27	4,872.46	4,874.69	4878.63	4876.93
CASING HEIGHT, FT	2.36	3.02	3.18	3.20	2.83	2.88	3.24	3.31
ELEVATION (TOC), FT	4,878.02	4,876.55	4,872.38	4,869.47	4,875.29	4,877.57	4881.87	4880.24

					4,877.94			
HIGH (max of first 2 yrs + 1)	4,875.43	4,874.39	4,866.30	4,863.12	4,865.57	4,867.40	4,876.48	4,875.84
LOW (min of first 2 yrs - 1)	4,868.67	4,867.68	4,857.83	4,855.35	4,861.49	4,861.77	4,859.47	4,854.54

01/14/21	4,868.41	4,865.23	4,838.98	4,836.45	4,860.85	4,852.65	4,871.15	4,869.65
02/26/21	4,868.32	4,864.38	4,838.29	4,835.86	4,861.37	4,852.24	4,870.28	4,869.04
03/31/21	4,869.05	4,865.51	4,838.43	4,834.28	4,861.91	4,854.06	4,870.09	4,869.23
04/30/21	4,868.82	4,863.46	4,838.68	4,835.01	4,862.83	4,855.28	4,871.25	4,869.50
05/28/21	4,869.67	4,866.99	4,838.58	4,835.71	4,862.02	4,857.62	4,871.95	4,870.82
06/23/21	4,870.07	4,866.47	4,838.58	4,836.60	4,862.80	4,858.12	4,874.09	4,872.57
07/19/21	4,869.97	4,866.97	4,838.49	4,836.42	4,862.01	4,858.02	4,874.31	4,873.32
08/19/21	4,870.09	4,867.32	4,838.48	4,836.18	4,861.79	4,858.04	4,876.26	4,873.85
09/29/21	4,870.17	4,867.44	4,838.43	4,836.83	4,861.45	4,857.82	4,876.89	4,873.99
10/28/21	4,870.72	4,867.40	4,846.70	4,836.40	4,862.21	4,856.59	4,875.62	4,874.22
11/30/21	4,869.67	4,867.40	4,846.46	4,837.28	4,861.35	4,854.32	4,873.35	4,871.73
12/15/21 (avg - see note)	4,868.80	4,867.02	4,845.64	4,837.09	4,861.19	4,853.13	4,871.62	4,870.72
01/28/22	4,867.94	4,866.65	4,844.83	4,836.91	4,861.03	4,851.95	4,869.89	4,869.72
02/27/22	4,868.80	4,866.70	4,844.43	4,836.58	4,861.81	-	4,869.92	4,869.09
03/24/22	4,868.61	4,865.15	4,844.18	4,834.97	4,862.19	4,855.37	4,870.35	4,869.30
04/20/22	4,868.53	4,863.22	4,844.62	4,835.60	4,860.85	4,854.68	4,871.25	4,869.40
05/16/22	4,868.79	4,866.24	4,851.80	4,836.03	4,861.55	4,855.21	4,871.49	4,870.26

Groundwater Monitoring Wells' Notes from Jan-2021 to May-2022 (submitted with DRMS Annual Rpt Jun-2022)	internal	internal	edge of site (next to NCCI)	offsite-far (next to NCCI)	offsite-close (out of permit, but close)	internal	edge of site	internal
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Note: Dec-2021 - Well Reader was out
with Covid - so Dec-2021 is average of
Nov-2021 & Jan-2022

FORT LUPTON S&G MONITOR WELL NO.	MW-24 (internal)	MW-25 (edge of site)	MW-26 (south end)	MW-27 (south end)	MW-28 (south end)	MW-29 (south end)	MW-30 (south end)	MW-31 (south end)
NORTHING, FT	1285220.96	1286191.14	1278473.10	1278442.03	1278427.71	1279705.24	1279612.81	1279702.73
EASTING, FT	3186629.91	3186587.77	3190083.81	3188252.28	3185716.95	3185920.94	3188258.35	3190495.90
ELEVATION (TOG), FT	4870.81	4868.97	4887.10	4885.69	4895.11	4891.42	4883.91	4884.66
CASING HEIGHT, FT	3.08	3.68	2.94	2.95	2.60	3.30	2.83	3.53
ELEVATION (TOC), FT	4873.89	4872.65	4890.04	4888.64	4897.71	4894.72	4886.74	4888.19

HIGH (max of first 2 yrs + 1)	4,870.89	4,866.45	4,882.02	4,884.28	4,888.31	4,887.23	4,882.70	4,879.49
LOW (min of first 2 yrs - 1)	4,856.19	4,853.95	4,878.03	4,880.84	4,884.39	4,880.89	4,877.04	4,875.56

01/14/21	4,862.34	4,855.43	4,878.99	4,881.95	4,885.76	4,883.53	4,880.03	4,876.77
02/26/21	4,861.57	4,854.86	4,879.14	4,881.93	4,885.60	4,883.38	4,880.02	4,876.93
03/31/21	4,861.81	4,854.97	4,879.54	4,882.65	4,886.12	4,884.03	4,880.65	4,877.28
04/30/21	4,861.11	4,855.23	4,879.82	4,882.75	4,886.33	4,884.31	4,880.85	4,877.90
05/28/21	4,862.48	4,856.65	4,879.11	4,882.12	4,886.64	4,884.77	4,880.91	4,877.15
06/23/21	4,862.71	4,856.95	4,879.73	4,883.25	4,887.02	4,885.67	4,881.06	4,877.66
07/19/21	4,863.34	4,857.21	4,879.29	4,882.02	4,886.13	4,884.88	4,880.71	4,877.30
08/19/21	4,864.06	4,857.27	4,878.75	4,881.72	4,885.98	4,884.75	4,881.03	4,877.20
09/29/21	4,864.78	4,857.96	4,878.02	4,880.68	4,885.12	4,884.53	4,881.08	4,877.10
10/28/21	4,867.60	4,857.27	4,878.93	4,882.58	4,885.73	4,884.46	4,882.02	4,877.35
11/30/21	4,864.26	4,856.98	4,879.04	4,882.04	4,885.45	4,883.87	4,880.30	4,876.85
12/15/21 (avg - see note)	4,863.16	4,856.00	4,879.59	4,882.04	4,885.47	4,883.63	4,880.23	4,876.91
01/28/22	4,862.06	4,855.03	4,880.15	4,882.05	4,885.50	4,883.40	4,880.17	4,876.98
02/27/22	4,861.68	4,854.50	4,879.04	4,882.03	4,885.30	4,883.38	4,880.15	4,876.90
03/24/22	4,861.21	4,854.08	4,878.70	4,881.91	4,885.57	4,883.74	4,880.26	4,877.00
04/20/22	4,860.68	4,854.34	4,877.93	4,881.38	4,885.98	4,884.19	4,879.86	4,876.58
05/16/22	4,863.56	4,859.21	4,877.91	4,881.89	4,886.69	4,884.80	4,880.46	4,876.94

Groundwater Monitoring Wells' Notes from Jan-2021 to May-2022 (submitted with DRMS Annual Rpt Jun-2022)	internal	edge of site	south end	south end	south end	south end	south end	south end
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Note: Dec-2021 - Well Reader was out
with Covid - so Dec-2021 is average of
Nov-2021 & Jan-2022

FORT LUPTON S&G MONITOR WELL NO.	MW-32 (inter/edge)	MW-33 (internal)	MW-34 (edge of site)	MW-37 (edge of site)	MW-45 (internal)	MW-52 (internal)	MW-54 (internal)	MW-55 (edge of site)
NORTHING, FT	1281049.34	1281023.27	1280976.36	1282451.42	1286212.47	1284875.58	1285027.37	1285705.08
EASTING, FT	3190074.13	3186869.81	3185167.73	3185753.31	3189018.10	3188125.52	3186385.20	3185816.56
ELEVATION (TOG), FT	4882.40	4883.59	4887.04	4883.69	4870.99	---	---	---
CASING HEIGHT, FT	3.07	2.70	3.72	3.49	3.28	---	---	---
ELEVATION (TOC), FT	4885.47	4886.29	4890.76	4887.18	4874.27	4878.28	4887.35	4879.99

HIGH (max of first 2 yrs + 1)	4,876.72	4,883.83	4,887.69	4,879.98	4,863.02	4,874.40	4,866.40	4,868.59
LOW (min of first 2 yrs - 1)	4,873.15	4,877.98	4,878.96	4,864.78	4,851.42	4,858.08	4,854.65	4,854.99

01/14/21	4,874.46	4,881.40	4,884.11	4,872.16	4,850.68	4,856.02	4,864.01	4,863.78
02/26/21	4,874.39	4,881.28	4,883.84	4,872.13	4,849.78	4,855.79	4,863.24	4,862.90
03/31/21	4,875.08	4,881.61	4,884.08	4,870.74	4,853.16	4,854.43	4,862.74	4,862.28
04/30/21	4,875.30	4,881.84	4,883.98	4,872.14	4,855.30	4,853.43	4,863.08	4,862.81
05/28/21	4,875.19	4,881.98	4,885.24	4,872.76	4,855.26	4,853.69	4,863.07	4,862.88
06/23/21	4,875.65	4,882.24	4,886.34	4,872.00	4,855.79	4,852.10	4,864.04	4,863.81
07/19/21	4,875.44	4,882.23	4,885.79	4,876.22	4,855.39	4,852.09	4,864.92	4,864.35
08/19/21	4,875.32	4,842.30	4,885.66	4,877.55	4,855.14	4,852.00	4,865.40	4,865.68
09/29/21	4,875.15	4,882.28	4,885.47	4,878.43	4,854.55	4,851.96	4,866.46	4,866.64
10/28/21	4,876.74	4,882.40	4,884.97	4,876.79	4,854.16	4,851.89	4,867.26	4,864.99
11/30/21	4,874.52	4,881.82	4,884.46	4,874.55	4,850.57	4,851.54	4,865.63	4,865.37
12/15/21 (avg - see note)	4,874.52	4,881.68	4,884.15	4,873.08	4,849.47	4,852.07	4,864.25	4,864.54
01/28/22	4,874.52	4,881.55	4,883.84	4,871.61	4,848.38	4,852.61	4,862.88	4,862.54
02/27/22	4,874.55	4,881.81	4,883.76	4,870.78	4,851.93	4,851.86	4,862.46	4,862.55
03/24/22	4,874.84	4,881.67	4,884.04	4,871.46	4,853.42	4,851.57	4,862.85	4,860.49
04/20/22	4,874.23	4,881.76	4,884.33	4,872.30	4,850.00	4,851.56	4,863.17	4,861.43
05/16/22	4,874.86	4,882.02	4,884.75	4,872.49	4,852.68	4,851.72	4,864.46	4,863.24

Groundwater Monitoring Wells' Notes from Jan-2021 to May-2022 (submitted with DRMS Annual Rpt Jun-2022)	internal/edge	internal	edge of site	edge of site	edge of site	internal	internal	edge of site
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Note: Dec-2021 - Well Reader was out
with Covid - so Dec-2021 is average of
Nov-2021 & Jan-2022



Active MW



				REV. #		BY	DATE	DESCRIPTION		
				A		-	-	-		
				B		-	-	-		
				DRAWN BY: JS			<div>L.G. Everist, Inc. Aggregate Producers 7321 E. 88th Ave, Suite 200 Henderson, CO, 80640 (303) 286-2245</div>		Active MW Locations 2021 / 2022	
				DATE: 05/22/2022						
				SCALE: Not to scale						
				SIZE: 11x17						
							<div>L.G.E. Ft. Lupton Resource Weld County, CO</div>			