

MILL CREEK DOLOMITE, LLC

Via FedEx

March 29, 2024

Chris Neel, Division Chief
Water Rights Administration Division
Oklahoma Water Resources Board
3800 N. Classen Blvd.
Oklahoma City, OK 73118

RECEIVED

APR 01 2024

OKLAHOMA WATER
RESOURCES BOARD

Re: *Consumptive Use of Pit Water – 2nd Quarter 2023 Report*
Mill Creek Dolomite, LLC – Mill Creek Quarry

Mr. Neel:

Please see attached the second quarter 2023 water report for Mill Creek Dolomite, LLC as required under Oklahoma Statute 82-1020.2(E)(1) and Oklahoma Administrative Code 785:30-15.

Please contact me at (972) 392-8418 or wendellsmith@uslm.com with any further questions.

Sincerely,



Wendell Smith
U.S. Lime & Minerals, Inc.
Environmental Director

cc:

Christian Gragson – Mill Creek Dolomite, Plant Manager

Attachment A

Consumptive Use Report

CONSUMPTIVE USE REPORT
2nd Quarter 2023
MILL CREEK DOLOMITE, LLC
MILL CREEK MINE & MILL

TABLE 1: Estimated Consumptive Use of Pit Water

PIT GROUNDWATER VOLUME		VALUES (Gal)
1	Total volume of water pumped from the producing mine pits	27,362,100
2	Volume of precipitation that falls onto the surface of producing mine pits	12,765,502
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water	0
4	Other non-pit waters pumped from the producing mine pit	0
5	Add lines 2 through 4	12,765,502
6	Pit Ground Water Volume (Line 1 minus Line 5)	14,596,598
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	506,744
8	Volume of pit groundwater that is carried away with the mined material transported off the mining site (shipped)	0
9	Volume of pit groundwater that evaporates from the producing mine pit, process water ponds, and lined ponds (Excluding structures used for augmentation)	677,943
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	546,750
11	Defined Elements of Consumptive Use of Pit Groundwater (Add Lines 7 through 10)	1,731,437
PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11	12,865,161
13	Groundwater Augmentation: Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management Plan	0
14	Stream Augmentation: Volume of pit groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance, pursuant to a Management Plan	13,176,300
15	Precipitation & Run-off Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	0
16	Recycled Pit Groundwater Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	0
17	Other Non-Consumptive Losses Including pit groundwater returned to the land surface from which runoff flows into a mine pit and other losses (not included in lines 7 through 10)	0
18	Add lines 13 through 17	13,176,300
19	Other Consumptive Use (adjusted) (Line 12 minus Line 18)	-311,139
TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER		
20	Total Net Reported Consumptive Use: (Line 11 plus Line 19)	1,420,298

Attachment B

Pit Water Monitoring Data

MILL CREEK DOLOMITE, LLC
PIT WATER MONITORING DATA - 2nd Quarter 2023

QUARRY SURFACE AREA DATA:

QUARRY A (sq ft) **2,163,342** QUARRY B (sq ft) **1,051,207** 2023 Median Stream Flow **4.48** cu ft/sec, per USGS
 PUMP A Actual GPM **1,200** PUMP B Actual GPM **650** (50% exceedance value) Gage 07331200 Mill Creek near Mill Creek, OK

DATE	PU-19 Quarry A		PU-18 Quarry B		Pit Water Pumped			Stream Augmentation Credit			Pit Rain Water					
	Meter Reading	Pump Hours Ran	Meter Reading	Pump Hours Ran	Quarry A (gal/day)	Quarry B (gal/day)	Grand Total (gal/day)	USGS Daily Mill Creek Flow (CFS)	Less than Median Stream Flow?	Stream Aug. Credit (gal/day)	Rainfall (Inches)	Rainfall Volume QA (ft3)	Rainfall Gallons QA	Rainfall Volume QB (ft3)	Rainfall Gallons QB	Total Rainfall Gallons
4/1/23	12,371.6	0.0	8,673.0	0.0	0	0	0	13.70	NO	0	0.00	0	0	0	0	0
4/2/23	12,371.6	0.0	8,673.0	0.0	0	0	0	14.00	NO	0	0.43	77,520	579,925	37,668	281,796	861,721
4/3/23	12,379.6	8.0	8,681.0	8.0	576,000	312,000	888,000	20.30	NO	0	0.00	0	0	0	0	0
4/4/23	12,379.6	0.0	8,681.0	0.0	0	0	0	16.20	NO	0	0.00	0	0	0	0	0
4/5/23	12,379.6	0.0	8,681.0	0.0	0	0	0	13.10	NO	0	0.00	0	0	0	0	0
4/6/23	12,379.6	0.0	8,681.0	0.0	0	0	0	11.20	NO	0	0.00	0	0	0	0	0
4/7/23	12,389.6	10.0	8,691.0	10.0	720,000	390,000	1,110,000	10.30	NO	0	0.00	0	0	0	0	0
4/8/23	12,389.6	0.0	8,691.0	0.0	0	0	0	9.50	NO	0	0.00	0	0	0	0	0
4/9/23	12,389.6	0.0	8,691.0	0.0	0	0	0	8.55	NO	0	0.00	0	0	0	0	0
4/10/23	12,389.6	0.0	8,691.0	0.0	0	0	0	7.73	NO	0	0.00	0	0	0	0	0
4/11/23	12,398.6	9.0	8,700.0	9.0	648,000	351,000	999,000	7.30	NO	0	0.00	0	0	0	0	0
4/12/23	12,398.6	0.0	8,700.0	0.0	0	0	0	7.02	NO	0	0.00	0	0	0	0	0
4/13/23	12,398.6	0.0	8,700.0	0.0	0	0	0	6.70	NO	0	0.00	0	0	0	0	0
4/14/23	12,398.6	0.0	8,700.0	0.0	0	0	0	6.48	NO	0	0.00	0	0	0	0	0
4/15/23	12,398.6	0.0	8,700.0	0.0	0	0	0	6.25	NO	0	0.00	0	0	0	0	0
4/16/23	12,398.6	0.0	8,700.0	0.0	0	0	0	5.70	NO	0	0.00	0	0	0	0	0
4/17/23	12,409.6	11.0	8,711.0	11.0	792,000	429,000	1,221,000	5.58	NO	0	0.00	0	0	0	0	0
4/18/23	12,409.6	0.0	8,711.0	0.0	0	0	0	5.54	NO	0	0.00	0	0	0	0	0
4/19/23	12,417.6	8.0	8,719.0	8.0	576,000	312,000	888,000	5.46	NO	0	0.00	0	0	0	0	0
4/20/23	12,425.6	8.0	8,727.0	8.0	576,000	312,000	888,000	7.10	NO	0	0.00	0	0	0	0	0
4/21/23	12,425.6	0.0	8,727.0	0.0	0	0	0	5.34	NO	0	0.00	0	0	0	0	0
4/22/23	12,425.6	0.0	8,727.0	0.0	0	0	0	4.65	NO	0	0.07	12,619	94,406	6,132	45,874	140,280
4/23/23	12,425.6	0.0	8,727.0	0.0	0	0	0	4.73	NO	0	0.04	7,211	53,947	3,504	26,214	80,160
4/24/23	12,430.6	5.0	8,732.0	5.0	360,000	195,000	555,000	4.64	NO	0	0.00	0	0	0	0	0
4/25/23	12,430.6	0.0	8,732.0	0.0	0	0	0	4.64	NO	0	0.03	5,408	40,460	2,628	19,660	60,120
4/26/23	12,440.6	10.0	8,742.0	10.0	720,000	390,000	1,110,000	8.30	NO	0	0.72	129,801	971,038	63,072	471,845	1,442,882
4/27/23	12,440.6	0.0	8,742.0	0.0	0	0	0	6.77	NO	0	0.05	9,014	67,433	4,380	32,767	100,200
4/28/23	12,449.6	9.0	8,751.0	9.0	648,000	351,000	999,000	9.67	NO	0	0.01	1,803	13,487	876	6,553	20,040
4/29/23	12,449.6	0.0	8,751.0	0.0	0	0	0	9.87	NO	0	0.00	0	0	0	0	0
4/30/23	12,449.6	0.0	8,751.0	0.0	0	0	0	8.30	NO	0	0.00	0	0	0	0	0
5/1/23	12,449.6	0.0	8,751.0	0.0	0	0	0	7.51	NO	0	0.00	0	0	0	0	0
5/2/23	12,457.6	8.0	8,759.0	8.0	576,000	312,000	888,000	6.76	NO	0	0.00	0	0	0	0	0
5/3/23	12,457.6	0.0	8,759.0	0.0	0	0	0	6.31	NO	0	0.09	16,225	121,380	7,884	58,981	180,360
5/4/23	12,457.6	0.0	8,759.0	0.0	0	0	0	5.78	NO	0	0.12	21,633	161,840	10,512	78,641	240,480
5/5/23	12,466.6	9.0	8,768.0	9.0	648,000	351,000	999,000	4.94	NO	0	0.00	0	0	0	0	0
5/6/23	12,466.6	0.0	8,768.0	0.0	0	0	0	4.45	Yes	0	0.17	30,647	229,273	14,892	111,408	340,681
5/7/23	12,466.6	0.0	8,768.0	0.0	0	0	0	4.66	NO	0	0.00	0	0	0	0	0
5/8/23	12,476.6	10.0	8,778.0	10.0	720,000	390,000	1,110,000	4.38	Yes	1,110,000	0.00	0	0	0	0	0
5/9/23	12,476.6	0.0	8,778.0	0.0	0	0	0	3.93	Yes	0	0.00	0	0	0	0	0
5/10/23	12,476.6	0.0	8,778.0	0.0	0	0	0	3.67	Yes	0	0.02	3,606	26,973	1,752	13,107	40,080
5/11/23	12,476.6	0.0	8,778.0	0.0	0	0	0	4.49	NO	0	0.02	3,606	26,973	1,752	13,107	40,080
5/12/23	12,482.6	6.0	8,784.0	6.0	432,000	234,000	666,000	4.16	Yes	666,000	0.00	0	0	0	0	0
5/13/23	12,482.6	0.0	8,784.0	0.0	0	0	0	3.96	Yes	0	0.23	41,464	310,193	20,148	150,728	460,921
5/14/23	12,482.6	0.0	8,784.0	0.0	0	0	0	3.76	Yes	0	0.09	16,225	121,380	7,884	58,981	180,360
5/15/23	12,482.6	0.0	8,784.0	0.0	0	0	0	4.27	Yes	0	0.18	32,450	242,759	15,768	117,961	360,721

DATE	PU-19 Quarry A		PU-18 Quarry B		Pit Water Pumped			Stream Augmentation Credit			Pit Rain Water					
	Meter Reading	Pump Hours Ran	Meter Reading	Pump Hours Ran	Quarry A (gal/day)	Quarry B (gal/day)	Grand Total (gal/day)	USGS Daily Mill Creek Flow (CFS)	Less than Median Stream Flow?	Stream Aug. Credit (gal/day)	Rainfall (inches)	Rainfall Volume QA (ft3)	Rainfall Gallons QA	Rainfall Volume QB (ft3)	Rainfall Gallons QB	Total Rainfall Gallons
5/16/23	12,482.6	0.0	8,784.0	0.0	0	0	0	3.54	Yes	0	0.00	0	0	0	0	0
5/17/23	12,482.6	0.0	8,784.0	0.0	0	0	0	3.15	Yes	0	0.00	0	0	0	0	0
5/18/23	12,490.6	8.0	8,792.0	8.0	576,000	312,000	888,000	3.35	Yes	888,000	0.05	9,014	67,433	4,380	32,767	100,200
5/19/23	12,499.6	9.0	8,801.0	9.0	648,000	351,000	999,000	4.61	NO	0	0.09	16,225	121,380	7,884	58,981	180,360
5/20/23	12,499.6	0.0	8,801.0	0.0	0	0	0	3.85	Yes	0	0.00	0	0	0	0	0
5/21/23	12,499.6	0.0	8,801.0	0.0	0	0	0	3.26	Yes	0	0.00	0	0	0	0	0
5/22/23	12,499.6	0.0	8,801.0	0.0	0	0	0	3.38	Yes	0	0.00	0	0	0	0	0
5/23/23	12,508.6	9.0	8,810.0	9.0	648,000	351,000	999,000	3.13	Yes	999,000	0.00	0	0	0	0	0
5/24/23	12,508.6	0.0	8,810.0	0.0	0	0	0	2.84	Yes	0	0.00	0	0	0	0	0
5/25/23	12,508.6	0.0	8,810.0	0.0	0	0	0	4.38	Yes	0	0.01	1,803	13,487	876	6,553	20,040
5/26/23	12,508.6	0.0	8,810.0	0.0	0	0	0	3.59	Yes	0	0.00	0	0	0	0	0
5/27/23	12,508.6	0.0	8,810.0	0.0	0	0	0	3.15	Yes	0	0.00	0	0	0	0	0
5/28/23	12,508.6	0.0	8,810.0	0.0	0	0	0	3.20	Yes	0	0.23	41,464	310,193	20,148	150,728	460,921
5/29/23	12,508.6	0.0	8,810.0	0.0	0	0	0	3.55	Yes	0	0.07	12,619	94,406	6,132	45,874	140,280
5/30/23	12,508.6	0.0	8,810.0	0.0	0	0	0	3.45	Yes	0	0.00	0	0	0	0	0
5/31/23	12,508.6	0.0	8,810.0	0.0	0	0	0	2.94	Yes	0	0.00	0	0	0	0	0
6/1/23	12,508.6	0.0	8,810.0	0.0	0	0	0	2.71	Yes	0	0.00	0	0	0	0	0
6/2/23	12,525.6	17.0	8,827.0	17.0	1,224,000	663,000	1,887,000	2.54	Yes	1,887,000	0.00	0	0	0	0	0
6/3/23	12,525.6	0.0	8,827.0	0.0	0	0	0	6.99	NO	0	0.74	133,406	998,011	64,824	484,952	1,482,963
6/4/23	12,525.6	0.0	8,827.0	0.0	0	0	0	5.67	NO	0	0.00	0	0	0	0	0
6/5/23	12,525.6	0.0	8,827.0	0.0	0	0	0	4.27	Yes	0	0.08	14,422	107,893	7,008	52,427	160,320
6/6/23	12,541.6	16.0	8,843.0	16.0	1,152,000	624,000	1,776,000	3.93	Yes	1,776,000	0.00	0	0	0	0	0
6/7/23	12,541.6	0.0	8,843.0	0.0	0	0	0	3.07	Yes	0	0.00	0	0	0	0	0
6/8/23	12,541.6	0.0	8,843.0	0.0	0	0	0	2.65	Yes	0	0.10	18,028	134,866	8,760	65,534	200,400
6/9/23	12,541.6	0.0	8,843.0	0.0	0	0	0	2.58	Yes	0	0.01	1,803	13,487	876	6,553	20,040
6/10/23	12,541.6	0.0	8,843.0	0.0	0	0	0	2.81	Yes	0	0.00	0	0	0	0	0
6/11/23	12,541.6	0.0	8,843.0	0.0	0	0	0	2.99	Yes	0	0.00	0	0	0	0	0
6/12/23	12,558.4	16.8	8,859.8	16.8	1,209,600	655,200	1,864,800	6.14	NO	0	1.32	237,968	1,780,236	115,633	865,049	2,645,285
6/13/23	12,565.4	7.0	8,866.8	7.0	504,000	273,000	777,000	5.17	NO	0	0.36	64,900	485,519	31,536	235,922	721,441
6/14/23	12,565.4	0.0	8,866.8	0.0	0	0	0	3.53	Yes	0	0.00	0	0	0	0	0
6/15/23	12,565.4	0.0	8,866.8	0.0	0	0	0	3.01	Yes	0	0.12	21,633	161,840	10,512	78,641	240,480
6/16/23	12,571.4	6.0	8,876.4	9.6	432,000	374,400	806,400	3.18	Yes	806,400	0.00	0	0	0	0	0
6/17/23	12,571.4	0.0	8,876.4	0.0	0	0	0	2.80	Yes	0	0.76	137,012	1,024,984	66,576	498,058	1,523,043
6/18/23	12,571.4	0.0	8,876.4	0.0	0	0	0	8.21	NO	0	0.03	5,408	40,460	2,628	19,660	60,120
6/19/23	12,571.4	0.0	8,885.3	8.9	0	347,100	347,100	3.71	Yes	347,100	0.00	0	0	0	0	0
6/20/23	12,583.1	11.7	8,894.0	8.7	842,400	339,300	1,181,700	3.01	Yes	1,181,700	0.00	0	0	0	0	0
6/21/23	12,595.9	12.8	8,902.8	8.8	921,600	343,200	1,264,800	2.45	Yes	1,264,800	0.00	0	0	0	0	0
6/22/23	12,598.1	2.2	8,902.8	0.0	158,400	0	158,400	2.08	Yes	158,400	0.00	0	0	0	0	0
6/23/23	12,602.9	4.8	8,910.0	7.2	345,600	280,800	626,400	2.20	Yes	626,400	0.13	23,436	175,326	11,388	85,194	260,520
6/24/23	12,602.9	0.0	8,910.0	0.0	0	0	0	2.47	Yes	0	0.00	0	0	0	0	0
6/25/23	12,602.9	0.0	8,910.0	0.0	0	0	0	2.35	Yes	0	0.00	0	0	0	0	0
6/26/23	12,610.6	7.7	8,918.0	8.0	554,400	312,000	866,400	2.41	Yes	866,400	0.00	0	0	0	0	0
6/27/23	12,614.1	3.5	8,918.0	0.0	252,000	0	252,000	2.08	Yes	252,000	0.00	0	0	0	0	0
6/28/23	12,614.1	0.0	8,926.9	8.9	0	347,100	347,100	2.03	Yes	347,100	0.00	0	0	0	0	0
6/29/23	12,614.1	0.0	8,926.9	0.0	0	0	0	1.82	Yes	0	0.00	0	0	0	0	0
6/30/23	12,614.1	0.0	8,926.9	0.0	0	0	0	1.68	Yes	0	0.00	0	0	0	0	0
2nd QUARTER TOTALS		242.5		253.9	17,460,000	9,902,100	27,362,100	-	-	13,176,300	6.37	1,148,374	8,590,986	558,016	4,174,516	12,765,502

Attachment C

USGS Data for Mill Creek Median Daily Flow
(50% exceedance level)

```

# ----- WARNING -----
# Some of the data that you have obtained from this U.S. Geological Survey database
# may not have received Director's approval. Any such data values are qualified
# as provisional and are subject to revision. Provisional data are released on the
# condition that neither the USGS nor the United States Government may be held liable
# for any damages resulting from its use.
#
# Additional info: https://waterdata.usgs.gov/provisional-data-statement/
#
# File-format description: https://help.waterdata.usgs.gov/faq/about-tab-delimited-output
# Automated-retrieval info: https://help.waterdata.usgs.gov/faq/automated-retrievals
#
# Contact: gs-w_waterdata_support@usgs.gov
# retrieved: 2024-03-28 11:24:17 EDT (vaww01)
#

```

```

# Data for the following 1 site(s) are contained in this file
# USGS 07331200 Mill Creek near Mill Creek, OK
# -----
#

```

```

# Data provided for site 07331200
#      TS      parameter      statistic      Description
#      325587      00060      00003      Discharge, cubic feet per second (Mean)
#

```

```

# Data-value qualification codes included in this output:
# A Approved for publication -- Processing and review completed.
#

```

agency_cd	site_no	datetime	325587_00060_00003	325587_00060_00003_cd
5s	15s	20d	14n	10s
USGS	07331200	2023-04-01	13.7	A
USGS	07331200	2023-04-02	14.0	A
USGS	07331200	2023-04-03	20.3	A
USGS	07331200	2023-04-04	16.2	A
USGS	07331200	2023-04-05	13.1	A
USGS	07331200	2023-04-06	11.2	A
USGS	07331200	2023-04-07	10.3	A
USGS	07331200	2023-04-08	9.50	A
USGS	07331200	2023-04-09	8.55	A
USGS	07331200	2023-04-10	7.73	A
USGS	07331200	2023-04-11	7.30	A
USGS	07331200	2023-04-12	7.02	A
USGS	07331200	2023-04-13	6.70	A
USGS	07331200	2023-04-14	6.48	A
USGS	07331200	2023-04-15	6.25	A
USGS	07331200	2023-04-16	5.70	A
USGS	07331200	2023-04-17	5.58	A
USGS	07331200	2023-04-18	5.54	A
USGS	07331200	2023-04-19	5.46	A
USGS	07331200	2023-04-20	7.10	A
USGS	07331200	2023-04-21	5.34	A
USGS	07331200	2023-04-22	4.65	A
USGS	07331200	2023-04-23	4.73	A
USGS	07331200	2023-04-24	4.64	A
USGS	07331200	2023-04-25	4.64	A
USGS	07331200	2023-04-26	8.30	A
USGS	07331200	2023-04-27	6.77	A
USGS	07331200	2023-04-28	9.67	A
USGS	07331200	2023-04-29	9.87	A
USGS	07331200	2023-04-30	8.30	A
USGS	07331200	2023-05-01	7.51	A
USGS	07331200	2023-05-02	6.76	A
USGS	07331200	2023-05-03	6.31	A
USGS	07331200	2023-05-04	5.78	A
USGS	07331200	2023-05-05	4.94	A
USGS	07331200	2023-05-06	4.45	A

USGS	07331200	2023-05-07	4.66	A
USGS	07331200	2023-05-08	4.38	A
USGS	07331200	2023-05-09	3.93	A
USGS	07331200	2023-05-10	3.67	A
USGS	07331200	2023-05-11	4.49	A
USGS	07331200	2023-05-12	4.16	A
USGS	07331200	2023-05-13	3.96	A
USGS	07331200	2023-05-14	3.76	A
USGS	07331200	2023-05-15	4.27	A
USGS	07331200	2023-05-16	3.54	A
USGS	07331200	2023-05-17	3.15	A
USGS	07331200	2023-05-18	3.35	A
USGS	07331200	2023-05-19	4.61	A
USGS	07331200	2023-05-20	3.85	A
USGS	07331200	2023-05-21	3.26	A
USGS	07331200	2023-05-22	3.38	A
USGS	07331200	2023-05-23	3.13	A
USGS	07331200	2023-05-24	2.84	A
USGS	07331200	2023-05-25	4.38	A
USGS	07331200	2023-05-26	3.59	A
USGS	07331200	2023-05-27	3.15	A
USGS	07331200	2023-05-28	3.20	A
USGS	07331200	2023-05-29	3.55	A
USGS	07331200	2023-05-30	3.45	A
USGS	07331200	2023-05-31	2.94	A
USGS	07331200	2023-06-01	2.71	A
USGS	07331200	2023-06-02	2.54	A
USGS	07331200	2023-06-03	6.99	A
USGS	07331200	2023-06-04	5.67	A
USGS	07331200	2023-06-05	4.27	A
USGS	07331200	2023-06-06	3.93	A
USGS	07331200	2023-06-07	3.07	A
USGS	07331200	2023-06-08	2.65	A
USGS	07331200	2023-06-09	2.58	A
USGS	07331200	2023-06-10	2.81	A
USGS	07331200	2023-06-11	2.99	A
USGS	07331200	2023-06-12	6.14	A
USGS	07331200	2023-06-13	5.17	A
USGS	07331200	2023-06-14	3.53	A
USGS	07331200	2023-06-15	3.01	A
USGS	07331200	2023-06-16	3.18	A
USGS	07331200	2023-06-17	2.80	A
USGS	07331200	2023-06-18	8.21	A
USGS	07331200	2023-06-19	3.71	A
USGS	07331200	2023-06-20	3.01	A
USGS	07331200	2023-06-21	2.45	A
USGS	07331200	2023-06-22	2.08	A
USGS	07331200	2023-06-23	2.20	A
USGS	07331200	2023-06-24	2.47	A
USGS	07331200	2023-06-25	2.35	A
USGS	07331200	2023-06-26	2.41	A
USGS	07331200	2023-06-27	2.08	A
USGS	07331200	2023-06-28	2.03	A
USGS	07331200	2023-06-29	1.82	A
USGS	07331200	2023-06-30	1.68	A