

MILL CREEK DOLOMITE, LLC

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OKLAHOMA WATER
RESOURCES BOARD

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

Re: *Consumptive Use of Pit Water – 1st Quarter 2023 Report
Mill Creek Dolomite, LLC – Mill Creek Quarry*

Mr. Neel:

Please see attached the first 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

1st 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	31,413,000
2	Volume of precipitation that falls onto the surface of producing mine pits	19,619,194
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	19,619,194
6	Pit Ground Water Volume (Line 1 minus Line 5)	11,793,806
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	592,706
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)	397,886
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	155,250
11	Defined Elements of Consumptive Use of Pit Groundwater (Add Lines 7 through 10)	1,145,842
PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11	10,647,964
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	10,434,000
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	10,434,000
19	Other Consumptive Use (adjusted) (Line 12 minus Line 18)	213,964
TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER		
20	Total Net Reported Consumptive Use: (Line 11 plus Line 19)	1,359,806

Attachment B

Pit Water Monitoring Data

MILL CREEK DOLOMITE, LLC
PIT WATER MONITORING DATA - 1st 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
12/31/22	12,088.6		8,390.0													
1/1/23	12,088.6	0.0	8,390.0	0.0	0	0	0	1.27	Yes	0	0.00	0	0	0	0	0
1/2/23	12,088.6	0.0	8,390.0	0.0	0	0	0	1.25	Yes	0	0.01	1,803	13,487	876	6,553	20,040
1/3/23	12,088.6	0.0	8,390.0	0.0	0	0	0	1.21	Yes	0	0.00	0	0	0	0	0
1/4/23	12,088.6	0.0	8,390.0	0.0	0	0	0	1.82	Yes	0	0.00	0	0	0	0	0
1/5/23	12,088.6	0.0	8,390.0	0.0	0	0	0	2.05	Yes	0	0.00	0	0	0	0	0
1/6/23	12,088.6	0.0	8,390.0	0.0	0	0	0	1.67	Yes	0	0.00	0	0	0	0	0
1/7/23	12,088.6	0.0	8,390.0	0.0	0	0	0	1.39	Yes	0	0.00	0	0	0	0	0
1/8/23	12,088.6	0.0	8,390.0	0.0	0	0	0	1.17	Yes	0	0.00	0	0	0	0	0
1/9/23	12,104.6	16.0	8,406.0	16.0	1,152,000	624,000	1,776,000	1.08	Yes	1,776,000	0.00	0	0	0	0	0
1/10/23	12,104.6	0.0	8,406.0	0.0	0	0	0	1.04	Yes	0	0.00	0	0	0	0	0
1/11/23	12,104.6	0.0	8,406.0	0.0	0	0	0	1.07	Yes	0	0.00	0	0	0	0	0
1/12/23	12,104.6	0.0	8,406.0	0.0	0	0	0	1.08	Yes	0	0.00	0	0	0	0	0
1/13/23	12,104.6	0.0	8,406.0	0.0	0	0	0	0.98	Yes	0	0.00	0	0	0	0	0
1/14/23	12,104.6	0.0	8,406.0	0.0	0	0	0	1.09	Yes	0	0.00	0	0	0	0	0
1/15/23	12,104.6	0.0	8,406.0	0.0	0	0	0	1.16	Yes	0	0.00	0	0	0	0	0
1/16/23	12,104.6	0.0	8,406.0	0.0	0	0	0	1.05	Yes	0	0.00	0	0	0	0	0
1/17/23	12,104.6	0.0	8,406.0	0.0	0	0	0	0.98	Yes	0	0.00	0	0	0	0	0
1/18/23	12,104.6	0.0	8,406.0	0.0	0	0	0	1.05	Yes	0	0.03	5,408	40,460	2,628	19,660	60,120
1/19/23	12,104.6	0.0	8,406.0	0.0	0	0	0	0.92	Yes	0	0.00	0	0	0	0	0
1/20/23	12,125.6	21.0	8,427.0	21.0	1,512,000	819,000	2,331,000	0.88	Yes	2,331,000	0.00	0	0	0	0	0
1/21/23	12,125.6	0.0	8,427.0	0.0	0	0	0	0.93	Yes	0	0.04	7,211	53,947	3,504	26,214	80,160
1/22/23	12,125.6	0.0	8,427.0	0.0	0	0	0	0.90	Yes	0	0.00	0	0	0	0	0
1/23/23	12,125.6	0.0	8,427.0	0.0	0	0	0	0.84	Yes	0	0.00	0	0	0	0	0
1/24/23	12,134.6	9.0	8,436.0	9.0	648,000	351,000	999,000	1.71	Yes	999,000	0.87	156,842	1,173,337	76,213	570,146	1,743,483
1/25/23	12,134.6	0.0	8,436.0	0.0	0	0	0	2.31	Yes	0	0.29	52,281	391,112	25,404	190,049	581,161
1/26/23	12,134.6	0.0	8,436.0	0.0	0	0	0	1.79	Yes	0	0.01	1,803	13,487	876	6,553	20,040
1/27/23	12,134.6	0.0	8,436.0	0.0	0	0	0	1.32	Yes	0	0.00	0	0	0	0	0
1/28/23	12,134.6	0.0	8,436.0	0.0	0	0	0	1.27	Yes	0	0.00	0	0	0	0	0
1/29/23	12,158.6	24.0	8,460.0	24.0	1,728,000	936,000	2,664,000	1.14	Yes	2,664,000	0.00	0	0	0	0	0
1/30/23	12,158.6	0.0	8,460.0	0.0	0	0	0	1.04	Yes	0	0.00	0	0	0	0	0
1/31/23	12,158.6	0.0	8,460.0	0.0	0	0	0	1.04	Yes	0	0.00	0	0	0	0	0
2/1/23	12,158.6	0.0	8,460.0	0.0	0	0	0	1.03	Yes	0	0.00	0	0	0	0	0
2/2/23	12,158.6	0.0	8,460.0	0.0	0	0	0	1.03	Yes	0	0.01	1,803	13,487	876	6,553	20,040
2/3/23	12,158.6	0.0	8,460.0	0.0	0	0	0	1.05	Yes	0	0.19	34,253	256,246	16,644	124,515	380,761
2/4/23	12,158.6	0.0	8,460.0	0.0	0	0	0	0.99	Yes	0	0.08	14,422	107,893	7,008	52,427	160,320
2/5/23	12,158.6	0.0	8,460.0	0.0	0	0	0	1.00	Yes	0	0.00	0	0	0	0	0
2/6/23	12,158.6	0.0	8,460.0	0.0	0	0	0	0.98	Yes	0	0.01	1,803	13,487	876	6,553	20,040
2/7/23	12,158.6	0.0	8,460.0	0.0	0	0	0	1.05	Yes	0	0.23	41,464	310,193	20,148	150,728	460,921
2/8/23	12,158.6	0.0	8,460.0	0.0	0	0	0	13.50	NO	0	0.83	149,631	1,119,391	72,708	543,932	1,663,323
2/9/23	12,158.6	0.0	8,460.0	0.0	0	0	0	9.17	NO	0	0.01	1,803	13,487	876	6,553	20,040
2/10/23	12,158.6	0.0	8,460.0	0.0	0	0	0	4.29	Yes	0	0.00	0	0	0	0	0
2/11/23	12,158.6	0.0	8,460.0	0.0	0	0	0	3.20	Yes	0	0.00	0	0	0	0	0
2/12/23	12,158.6	0.0	8,460.0	0.0	0	0	0	2.51	Yes	0	0.00	0	0	0	0	0
2/13/23	12,158.6	0.0	8,460.0	0.0	0	0	0	2.27	Yes	0	0.00	0	0	0	0	0

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
2/14/23	12,166.6	8.0	8,468.0	8.0	576,000	312,000	888,000	8.16	NO	0	0.58	104,562	782,225	50,808	380,097	1,162,322
2/15/23	12,190.6	24.0	8,492.0	24.0	1,728,000	936,000	2,664,000	3.44	Yes	2,664,000	0.00	0	0	0	0	0
2/16/23	12,190.6	0.0	8,492.0	0.0	0	0	0	9.49	NO	0	0.00	0	0	0	0	0
2/17/23	12,190.6	0.0	8,492.0	0.0	0	0	0	3.99	Yes	0	0.00	0	0	0	0	0
2/18/23	12,190.6	0.0	8,492.0	0.0	0	0	0	3.75	Yes	0	0.00	0	0	0	0	0
2/19/23	12,190.6	0.0	8,492.0	0.0	0	0	0	3.65	Yes	0	0.00	0	0	0	0	0
2/20/23	12,190.6	0.0	8,492.0	0.0	0	0	0	3.58	Yes	0	0.00	0	0	0	0	0
2/21/23	12,190.6	0.0	8,492.0	0.0	0	0	0	3.33	Yes	0	0.00	0	0	0	0	0
2/22/23	12,190.6	0.0	8,492.0	0.0	0	0	0	36.60	NO	0	0.81	146,026	1,092,417	70,956	530,825	1,623,243
2/23/23	12,190.6	0.0	8,492.0	0.0	0	0	0	19.40	NO	0	0.00	0	0	0	0	0
2/24/23	12,190.6	0.0	8,492.0	0.0	0	0	0	7.66	NO	0	0.00	0	0	0	0	0
2/25/23	12,190.6	0.0	8,492.0	0.0	0	0	0	6.14	NO	0	0.00	0	0	0	0	0
2/26/23	12,190.6	0.0	8,492.0	0.0	0	0	0	7.03	NO	0	0.23	41,464	310,193	20,148	150,728	460,921
2/27/23	12,214.6	24.0	8,516.0	24.0	1,728,000	936,000	2,664,000	10.30	NO	0	0.00	0	0	0	0	0
2/28/23	12,214.6	0.0	8,516.0	0.0	0	0	0	8.67	NO	0	0.00	0	0	0	0	0
3/1/23	12,214.6	0.0	8,516.0	0.0	0	0	0	7.16	NO	0	0.00	0	0	0	0	0
3/2/23	12,214.6	0.0	8,516.0	0.0	0	0	0	7.05	NO	0	0.97	174,870	1,308,204	84,973	635,680	1,943,883
3/3/23	12,215.6	1.0	8,517.0	1.0	72,000	39,000	111,000	17.70	NO	0	0.29	52,281	391,112	25,404	190,049	581,161
3/4/23	12,239.6	24.0	8,541.0	24.0	1,728,000	936,000	2,664,000	13.60	NO	0	0.00	0	0	0	0	0
3/5/23	12,263.6	24.0	8,565.0	24.0	1,728,000	936,000	2,664,000	10.30	NO	0	0.00	0	0	0	0	0
3/6/23	12,287.6	24.0	8,589.0	24.0	1,728,000	936,000	2,664,000	7.73	NO	0	0.00	0	0	0	0	0
3/7/23	12,287.6	0.0	8,589.0	0.0	0	0	0	6.79	NO	0	0.00	0	0	0	0	0
3/8/23	12,298.6	11.0	8,600.0	11.0	792,000	429,000	1,221,000	22.00	NO	0	0.73	131,603	984,524	63,948	478,398	1,462,922
3/9/23	12,305.6	7.0	8,607.0	7.0	504,000	273,000	777,000	42.10	NO	0	0.56	100,956	755,252	49,056	366,990	1,122,242
3/10/23	12,305.6	0.0	8,607.0	0.0	0	0	0	32.20	NO	0	0.00	0	0	0	0	0
3/11/23	12,305.6	0.0	8,607.0	0.0	0	0	0	19.40	NO	0	0.01	1,803	13,487	876	6,553	20,040
3/12/23	12,305.6	0.0	8,607.0	0.0	0	0	0	13.90	NO	0	0.00	0	0	0	0	0
3/13/23	12,305.6	0.0	8,607.0	0.0	0	0	0	11.30	NO	0	0.00	0	0	0	0	0
3/14/23	12,305.6	0.0	8,607.0	0.0	0	0	0	10.50	NO	0	0.00	0	0	0	0	0
3/15/23	12,317.6	12.0	8,619.0	12.0	864,000	468,000	1,332,000	10.10	NO	0	0.00	0	0	0	0	0
3/16/23	12,325.6	8.0	8,627.0	8.0	576,000	312,000	888,000	15.10	NO	0	0.69	124,392	930,578	60,444	452,185	1,382,762
3/17/23	12,325.6	0.0	8,627.0	0.0	0	0	0	16.90	NO	0	0.00	0	0	0	0	0
3/18/23	12,325.6	0.0	8,627.0	0.0	0	0	0	11.70	NO	0	0.00	0	0	0	0	0
3/19/23	12,325.6	0.0	8,627.0	0.0	0	0	0	9.97	NO	0	0.00	0	0	0	0	0
3/20/23	12,334.6	9.0	8,636.0	9.0	648,000	351,000	999,000	9.45	NO	0	0.00	0	0	0	0	0
3/21/23	12,334.6	0.0	8,636.0	0.0	0	0	0	9.10	NO	0	0.03	5,408	40,460	2,628	19,660	60,120
3/22/23	12,334.6	0.0	8,636.0	0.0	0	0	0	9.68	NO	0	0.00	0	0	0	0	0
3/23/23	12,344.6	10.0	8,646.0	10.0	720,000	390,000	1,110,000	9.45	NO	0	0.00	0	0	0	0	0
3/24/23	12,344.6	0.0	8,646.0	0.0	0	0	0	366.0	NO	0	2.04	367,768	2,751,273	178,705	1,336,894	4,088,167
3/25/23	12,344.6	0.0	8,646.0	0.0	0	0	0	98.60	NO	0	0.00	0	0	0	0	0
3/26/23	12,344.6	0.0	8,646.0	0.0	0	0	0	50.10	NO	0	0.00	0	0	0	0	0
3/27/23	12,344.6	0.0	8,646.0	0.0	0	0	0	28.60	NO	0	0.00	0	0	0	0	0
3/28/23	12,353.6	9.0	8,655.0	9.0	648,000	351,000	999,000	20.50	NO	0	0.00	0	0	0	0	0
3/29/23	12,362.6	9.0	8,664.0	9.0	648,000	351,000	999,000	16.70	NO	0	0.00	0	0	0	0	0
3/30/23	12,362.6	0.0	8,664.0	0.0	0	0	0	16.80	NO	0	0.24	43,267	323,679	21,024	157,282	480,961
3/31/23	12,371.6	9.0	8,673.0	9.0	648,000	351,000	999,000	17.40	NO	0	0.00	0	0	0	0	0
1st QUARTER TOTALS		283.0		283.0	20,376,000	11,037,000	31,413,000	-	-	10,434,000	9.79	1,764,927	13,203,415	857,610	6,415,778	19,619,194

Attachment C

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

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# ----- 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 11:23:04 EDT (caww02)
#
# 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.
# e Value has been estimated.
#
agency_cd site_no datetime 325587_00060_00003 325587_00060_00003_cd
5s 15s 20d 14n 10s
USGS 07331200 2023-01-01 1.27 A
USGS 07331200 2023-01-02 1.25 A
USGS 07331200 2023-01-03 1.21 A
USGS 07331200 2023-01-04 1.82 A
USGS 07331200 2023-01-05 2.05 A
USGS 07331200 2023-01-06 1.67 A
USGS 07331200 2023-01-07 1.39 A
USGS 07331200 2023-01-08 1.17 A
USGS 07331200 2023-01-09 1.08 A
USGS 07331200 2023-01-10 1.04 A
USGS 07331200 2023-01-11 1.07 A
USGS 07331200 2023-01-12 1.08 A
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USGS 07331200 2023-01-14 1.09 A
USGS 07331200 2023-01-15 1.16 A:e
USGS 07331200 2023-01-16 1.05 A
USGS 07331200 2023-01-17 0.98 A
USGS 07331200 2023-01-18 1.05 A:e
USGS 07331200 2023-01-19 0.92 A
USGS 07331200 2023-01-20 0.88 A
USGS 07331200 2023-01-21 0.93 A
USGS 07331200 2023-01-22 0.90 A
USGS 07331200 2023-01-23 0.84 A
USGS 07331200 2023-01-24 1.71 A
USGS 07331200 2023-01-25 2.31 A
USGS 07331200 2023-01-26 1.79 A
USGS 07331200 2023-01-27 1.32 A
USGS 07331200 2023-01-28 1.27 A
USGS 07331200 2023-01-29 1.14 A
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USGS 07331200 2023-01-31 1.04 A
USGS 07331200 2023-02-01 1.03 A
USGS 07331200 2023-02-02 1.03 A
USGS 07331200 2023-02-03 1.05 A
USGS 07331200 2023-02-04 0.99 A

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USGS	07331200	2023-02-05	1.00	A
USGS	07331200	2023-02-06	0.98	A
USGS	07331200	2023-02-07	1.05	A
USGS	07331200	2023-02-08	13.5	A
USGS	07331200	2023-02-09	9.17	A
USGS	07331200	2023-02-10	4.29	A
USGS	07331200	2023-02-11	3.20	A
USGS	07331200	2023-02-12	2.51	A
USGS	07331200	2023-02-13	2.27	A
USGS	07331200	2023-02-14	8.16	A
USGS	07331200	2023-02-15	3.44	A
USGS	07331200	2023-02-16	9.49	A
USGS	07331200	2023-02-17	3.99	A
USGS	07331200	2023-02-18	3.75	A
USGS	07331200	2023-02-19	3.65	A
USGS	07331200	2023-02-20	3.58	A:e
USGS	07331200	2023-02-21	3.33	A
USGS	07331200	2023-02-22	36.6	A
USGS	07331200	2023-02-23	19.4	A
USGS	07331200	2023-02-24	7.66	A
USGS	07331200	2023-02-25	6.14	A
USGS	07331200	2023-02-26	7.03	A
USGS	07331200	2023-02-27	10.3	A
USGS	07331200	2023-02-28	8.67	A
USGS	07331200	2023-03-01	7.16	A
USGS	07331200	2023-03-02	7.05	A
USGS	07331200	2023-03-03	17.7	A
USGS	07331200	2023-03-04	13.6	A
USGS	07331200	2023-03-05	10.3	A
USGS	07331200	2023-03-06	7.73	A
USGS	07331200	2023-03-07	6.79	A
USGS	07331200	2023-03-08	22.0	A
USGS	07331200	2023-03-09	42.1	A
USGS	07331200	2023-03-10	32.2	A
USGS	07331200	2023-03-11	19.4	A
USGS	07331200	2023-03-12	13.9	A
USGS	07331200	2023-03-13	11.3	A
USGS	07331200	2023-03-14	10.5	A
USGS	07331200	2023-03-15	10.1	A
USGS	07331200	2023-03-16	15.1	A
USGS	07331200	2023-03-17	16.9	A
USGS	07331200	2023-03-18	11.7	A
USGS	07331200	2023-03-19	9.97	A
USGS	07331200	2023-03-20	9.45	A
USGS	07331200	2023-03-21	9.10	A
USGS	07331200	2023-03-22	9.68	A
USGS	07331200	2023-03-23	9.45	A
USGS	07331200	2023-03-24	366	A
USGS	07331200	2023-03-25	98.6	A
USGS	07331200	2023-03-26	50.1	A
USGS	07331200	2023-03-27	28.6	A
USGS	07331200	2023-03-28	20.5	A
USGS	07331200	2023-03-29	16.7	A
USGS	07331200	2023-03-30	16.8	A
USGS	07331200	2023-03-31	17.4	A